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Welcome to the Undergraduate Studies Bulletin

The Undergraduate Studies Bulletin is the official document of record concerning undergraduate academic programs and regulations.

This bulletin is for information purposes only and does not constitute any contractual agreement between a student and the University of South Carolina. The University reserves the right to make changes in curricula, degree requirements, course offerings, or academic regulations at any time when, in the judgment of the faculty, the president, or the Board of Trustees, such changes are in the best interest of the students and the University.

Academic Bulletin Information

Administrative Copies

Printed administrative copies of the academic bulletins through the 2008-2009 academic year are available for reference in Thomas Cooper Library, the School of Medicine Library, Coleman Karesh Law Library, the Office of Undergraduate Admissions, The Graduate School, the Office of the Provost, and each college, school, and department office. Complimentary administrative copies are no longer produced.

Bulletin Updates and Corrections

Non-curricular information (i.e., faculty listings, contact information, college or departmental descriptive text) can be updated by contacting the Office of the University Registrar (bulletin@mailbox.sc.edu). Any material pertaining to course descriptions or curriculum changes must have the approval of the Faculty Senate, Graduate Council, Board of Trustees, and/or S.C. Commission on Higher Education before it can be published in the bulletins.

Printing Portions of the Online Bulletins

Except for a limited run of administrative copies up to the 2008-2009 academic year (copies of which are available for reference in the UofSC libraries), the academic bulletins are available online only. However, you may produce hard copy of any portion or all of an online bulletin using your local printer.

Other Printed Academic Documents

Supplementary materials are available on request as follows: the School of Medicine bulletin may be obtained by writing to the medical school; the School of Law bulletin may be obtained by writing to the School of Law. These offices are at the University of South Carolina, Columbia, SC 29208.

Final authority for all aspects of content rests with the Office of the Provost. All material submitted for publication in the undergraduate bulletin must be cleared through the academic editor, Sandra Kelly, vice provost and dean of undergraduate studies. For the graduate bulletin, clearance must be obtained through Cheryl Addy, vice provost and dean of the Graduate School.

Registration at the University of South Carolina assumes the students' acceptance of all published regulations, including both those which appear in this document and all others as applicable in any official announcement such as Carolina Community: Student Handbook and Policy Guide.

Official policies of the University listed below are published annually in Carolina Community.

1. Student Rights and Freedoms within the Academic Community
2. Code of Student Academic Responsibility and Procedures for Implementation of this Code
3. Grievance Policy and Procedures for Non-Academic Areas
4. University Policy on Use of Alcohol
5. University Policy on Campus Solicitation
6. University Policy on Student Patent and Copyright Matters

The University has established procedures to certify that all classroom activities are conducted by individuals with spoken and written proficiency in the English language at a suitable level. Student complaints concerning the English proficiency of an individual with classroom responsibilities should follow the grievance procedures available from the Office of the Provost.

The University of South Carolina provides equal opportunity in education and employment for all qualified persons regardless of race, color, religion, sex, national origin, age, disability, or veteran status. The University of South Carolina has designated as the ADA Title II, Section 504 and Title IX coordinator the Executive Assistant to the President for Equal Opportunity Programs. The Office of the Executive Assistant to the President for Equal Opportunity Programs is located in:

1600 Hampton St.
Suite 805
Columbia, South Carolina
Telephone: 803-777-3854
ACADEMIC PROGRAMS

Academic Programs

Undergraduate degree programs on the Columbia campus are offered through the Colleges of Arts and Sciences (p. 12); Hospitality, Retail, and Sport Management (p. 425); Education (p. 334); Engineering and Computing (p. 366); College of Information and Communications (p. 467); Nursing (p. 508); Pharmacy (p. 515); and Social Work (p. 517) and through the School of Music (p. 495), the Arnold School of Public Health (p. 448), and the Darla Moore School of Business (p. 306).

For a list of undergraduate programs offered on the Columbia Campus visit the following link:

• Programs A-Z (p. 10)

Carolina Core Requirements

The Carolina Core curriculum provides the common core of knowledge, skill, and academic experience for all Carolina undergraduates. It has 10 Core components, each with learning outcomes and credit hour requirements. The Core begins with foundational courses early in the undergraduate experience, followed by one or more integrative courses near the end in which selected Core learning outcomes are integrated into the chosen major.

Each of the ten Core components must be met with a Core-approved course. While most Core-approved courses fulfill a single Core component, a few courses, called overlay-eligible courses, have been approved to fulfill two Core components. Every student is required to complete a minimum of 31 credit hours of Core-approved courses.

Transfer students who enter UofSC Columbia, Lancaster, Salkehatchie, Sumter, or Union are subject to the Carolina Core requirements. Any transfer courses that equate to Carolina Core courses will equate to both content and all outcomes associated with the UofSC Course.

Visit the Carolina Core website for more information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Carolina Core Components</th>
<th>Carolina Core Learning Outcomes</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Lower Division: Core Courses</td>
<td>Learning Outcomes to be met at foundational level of mastery</td>
<td>28-34 hours</td>
<td></td>
</tr>
<tr>
<td>CMW</td>
<td>Effective, Engaged, and Persuasive Communication: Written Component</td>
<td>Identify and analyze issues, develop logical and persuasive arguments, and communicate ideas clearly for a variety of audiences and purposes through writing and speaking.</td>
<td>6 Written component</td>
</tr>
<tr>
<td>ARP</td>
<td>Analytical Reasoning and Problem-Solving</td>
<td>Apply the methods of mathematical, statistical, or analytical reasoning to critically evaluate data, solve problems, and effectively communicate findings verbally and graphically.</td>
<td>6</td>
</tr>
<tr>
<td>SCI</td>
<td>Scientific Literacy</td>
<td>Apply the principles and language of the natural sciences and associated technologies to historical and contemporary issues.</td>
<td>7</td>
</tr>
<tr>
<td>GFL</td>
<td>Global Citizenship and Multicultural Understanding: Foreign Language</td>
<td>Communicate effectively in more than one language.</td>
<td>0-6 (depending on placement test)</td>
</tr>
<tr>
<td>GHS</td>
<td>Global Citizenship and Multicultural Understanding: Historical Thinking</td>
<td>Use the principles of historical thinking to understand past human societies.</td>
<td>3</td>
</tr>
<tr>
<td>GSS</td>
<td>Global Citizenship and Multicultural Understanding: Social Sciences</td>
<td>Use the principles of the social sciences to explore diverse cultural identities and to analyze political and environmental issues.</td>
<td>3</td>
</tr>
<tr>
<td>AIU</td>
<td>Aesthetic and Interpretive Understanding</td>
<td>Create or interpret literary, visual or performing arts.</td>
<td>3</td>
</tr>
</tbody>
</table>

II. Lower Division: Stand-Alone or Overlay-Eligible Courses

Up to two of these three Core requirements may be met in overlay courses that combine learning outcomes from two Core courses.

3-9 hours (depending on whether these three outcomes are met with stand-alone or up to two overlay courses)
### Carolina Core Courses

- Foundational Courses (p. 743)
- Integrative Courses (p. 751)

### Special Academic Opportunities

Special academic and cultural programs whose scope extends beyond the disciplinary field of any specific college, school, or department are offered at the University.

### Cognates and Minors

The University recognizes the importance to students of in-depth study of an area to supplement their major field. Most colleges within the University require either a cognate or a minor in addition to the major as part of degree requirements. Some programs require neither.

A minor is a series of courses that display a distinct curricular pattern in one discipline that is different from the major. Undergraduate minors normally require a minimum of 18 credit hours of prescribed courses. Undergraduate minors appear on the transcripts, but not on the diplomas.

A cognate is a series of courses that display a distinct curricular pattern in one or more disciplines different from the major. Undergraduate cognates require a minimum of 12 credit hours in advanced level courses related to, but outside the major. Cognates are variable according to what is appropriate as determined by the student and the major advisor. Thus cognates do not appear on either the transcripts or the diplomas.

Students are advised to consult their academic dean as to whether a minor or cognate is required for their degree program. For a list of undergraduate minors visit Programs A-Z (p. 10).

### South Carolina Honors College

South Carolina Honors College (http://www.sc.edu/study/colleges_schools/honors_college/) was established in 1978 as a means of encouraging gifted students to develop their full intellectual capacities. For additional information, please visit the South Carolina Honors College (p. 521) section of this bulletin.

### Study Abroad

Each year hundreds of students participate in study abroad programs in many locations around the world. The Study Abroad Office (http://sc.edu/about/offices_and_divisions/global_carolina/?option=com_content&view=article&id=207&Itemid=1/) is available to guide students through the study abroad process, providing information about study abroad options, scholarship opportunities and diverse academic, cultural, and linguistic experiences available to them. By developing and implementing quality programming, the Study Abroad staff helps prepare students interested in experiencing a culture other than their own prior to departure and facilitate their return to UofSC after their study abroad experience has ended.

In addition, the Study Abroad Office assists faculty in developing short-term international programs, provides support services for exchange students who attend UofSC, and administers exchange programs with international universities. The Study Abroad Office is continually developing new program options for the benefit of interested students.

For more information contact the Study Abroad Office (https://sc.edu/about/offices_and_divisions/study_abroad/) at 803-777-7557.

### University 101

University 101 is a 3-credit-hour seminar course provided for and offered to freshmen and to other undergraduate students (i.e., transfer students) in their first semester at UofSC Columbia. This course provides an introduction to the nature and importance of university education and a general orientation to the functions and resources of the University. Many sections are offered for students enrolled in a specific UofSC college or academic major.
The course helps new students adjust to the University, develop a better understanding of the learning process, and acquire essential academic success skills. It also provides students a support group in a critical year by examining problems common to the new-student experience.

Offered in small classes of 19 students, University 101 is taught by faculty members and administrative personnel who have a special interest in working with new students. The course may be taken as part of a student’s regular load or as an overload. Course credit is awarded on a letter-grade basis. Credit is applicable as either elective or required credit toward most baccalaureate degrees offered by the University.

**Undergraduate Research**

Many students enrich the academic experience through research opportunities in all disciplines. Students work one-on-one with a faculty mentor, receive funding for their projects, and gain professional research experiences. The Office of Undergraduate Research (http://sc.edu/about/offices_and_divisions/undergraduate_research/) assists students in making connections with faculty and facilitating projects. Discovery Day (https://sc.edu/about/signature_events/discover/usc/) showcases students’ scholarly pursuits in and out of the classroom. Students present their research discoveries through poster discussions, oral presentations, artistic presentations & visual art displays. Some students elect to live together in a unique community on campus. Students will benefit from field trips, the Discover Seminar Series, networking events with faculty and other researchers, and access to service learning opportunities study abroad programs and internships.

**Service Learning**

Service-learning offers students an opportunity for hand-on involvement with real world concerns as a venue for educational growth. Combining the academic experience with community service provides a context for testing, observing, or trying out discipline-based theories, concepts, or skills. The Service Learning website (https://sc.edu/about/offices_and_divisions/leadership_and_service_center/service_opportunities/service_learning/) offers information on service learning courses available for students.

**Leadership Learning**

Many programs and activities are available at UofSC to develop leadership talent in students across disciplines, across colleges, across campus, and throughout the community. Several well known programs include the annual Student Leadership and Diversity Conference, the Emerging Leaders Program (https://sc.edu/about/offices_and_divisions/leadership_and_service_center/leadership_development/carolinalead/cfelp_peer_leader.php) (ELP), and the leader mentor network. The ELP assists students in learning about basic leadership theory. Students assess and explore their own leadership style and capacities, develop skills relevant to leadership work, and develop a personal development and leadership plan. Emerging Leader Mentors (ELMs) are students who have been at the university for more than 4 semesters who provide mentoring for first year students and transfer students in the Emerging Leaders Program.

**Career and Pre-Professional Counseling**

Students interested in careers requiring postgraduate professional training should plan their undergraduate curricula to meet the entrance requirements of the professional schools involved. Special advisors are available to offer assistance in career and curriculum planning in the following fields of postgraduate specialization:

**Law** (Eileen Korpita, pre-law advisor). Most law schools require for admission a B.S. or B.A. degree and an acceptable score on the Law School Admission Test. A solid liberal arts education is the best academic background for the study of law. Hence, no particular major or specific courses are required for successful performance in law school.

**Medicine, Dentistry, Veterinary Medicine, Optometry, Podiatry** (Eileen Korpita, health careers advisor). Students may obtain general advice concerning health related careers from the health careers advisor in Rooms 127-129, Sumwalt. Medical schools urge undergraduate students to obtain a broad liberal arts education but also require certain specific courses for admission. These include courses in the areas of biology, chemistry, English, mathematics, and physics. A very high scholastic average and a good score on the appropriate national admission examination (MCAT, DAT, etc.) are also essential for admission. Premedical, predental, preveterinary medicine, preoptometry, and prepodiatry students should have their course programs approved by the faculty advisor beginning with their freshman year in order to increase their chance for admission to a professional school.

**Religious Vocations** (Carl D. Evans, advisor). The professional schools of theology and religious education usually require a B.A. degree for admission. In regard to the undergraduate program, a broad liberal arts education with emphasis in religious studies, philosophy, English literature, history, and languages is recommended. Students planning professional religious vocations should work with the advisor in planning their academic program to be sure that they are adequately prepared for graduate professional study.

**Education** (Office of Student Affairs). Students may obtain general advice concerning teacher preparation from the Office of Student Affairs in the College of Education, Room 113, Wardlaw College.
• Accounting, B.S.B.A. (p. 307)
• Actuarial Mathematics and Statistics Minor (p. 168)
• Advertising and Public Relations Minor (p. 473)
• Advertising, B.A.J.M.C. (p. 474)
• Aerospace Engineering Minor (p. 418)
• Aerospace Engineering, B.S.E. (p. 419)
• Aerospace Studies Minor (p. 220)
• African American Studies Minor (p. 98)
• African American Studies, B.A. (p. 99)
• African Studies Minor (p. 101)
• Ancient Greek Literature Minor (p. 138)
• Anthropology Minor (p. 28)
• Anthropology, B.A. (p. 28)
• Applied Computing Minor (p. 393)
• Art Education, B.F.A. (p. 258)
• Art History Minor (p. 261)
• Art History, B.A. (p. 261)
• Art Studio Minor (p. 263)
• Art Studio, B.A. (p. 263)
• Art Studio, B.F.A. (p. 266)
• Asian Studies Minor (p. 101)
• Associate of Arts (Fort Jackson), A.A. (p. 529)
• Associate of Science (Fort Jackson), A.S. (p. 530)
• Astronomy Minor (p. 184)
• Audio Recording Minor (p. 498)
• Biochemistry and Molecular Biology, B.S. (p. 45)
• Biological Sciences, B.S. (p. 38)
• Biology Minor (p. 40)
• Biomedical Engineering, B.S. (p. 370)
• Broadcast Journalism, B.A.J.M.C. (p. 476)
• Business Administration Minor (p. 309)
• Business Economics, B.S.B.A. (p. 312)
• Cardiovascular Technology, B.S. (p. 102)
• Chemical Engineering, B.S.E. (p. 376)
• Chemical Engineering, Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/chemical-engineering/chemical-engineering-minor/)
• Chemistry Minor (p. 47)
• Chemistry, B.S. (p. 48)
• Chemistry, B.S.Chem (p. 50)
• Chinese Studies Minor (p. 138)
• Chinese Studies, B.A. (p. 139)
• Civil Engineering, B.S.E. (p. 386)
• Classical Studies Minor (p. 141)
• Classics, B.A. (p. 141)
• Comparative Literature Minor (p. 144)
• Comparative Literature, B.A. (p. 144)
• Computer Engineering, B.S.E. (p. 395)
• Computer Information Systems, B.S. (p. 397)
• Computer Science Minor (p. 399)
• Computer Science, B.S.C.S. (p. 401)
• Counselor Education Minor (p. 334)
• Creative Writing Minor (p. 72)
• Criminal Justice Minor (p. 54)
• Criminology and Criminal Justice, B.A. (p. 55)
• Dance Minor (p. 293)
• Dance, B.A. (p. 294)
• Data Science Minor (p. 403)
• Early Childhood Education, B.A. (p. 346)
• Economics Minor (p. 314)
• Economics, B.A. (p. 60)
• Economics, B.S. (p. 62)
• Education Minor (p. 335)
• Electrical Engineering Minor (p. 406)
• Electrical Engineering, B.S.E. (p. 407)
• Elementary Education, B.A. (p. 348)
• English Minor (p. 72)
• English, B.A. (p. 72)
• Environmental Science, B.S. (p. 229)
• Environmental Studies Minor (p. 233)
• Environmental Studies, B.A. (p. 234)
• European Studies Minor (p. 104)
• Event Management Minor (p. 436)
• Exercise Science, B.S. (p. 455)
• Experimental Psychology, B.A. (p. 205)
• Experimental Psychology, B.S. (p. 207)
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• Film and Media Studies, B.A. (p. 269)
• Finance, B.S.B.A. (p. 314)
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• Information Science, B.S. (p. 491)
• Inquiry Minor (p. 521)
• Integrated Information Technology Minor (p. 410)
• Integrated Information Technology, B.S. (p. 411)
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• Interdisciplinary Studies, B.A.I.S. (College of Hospitality, Retail, and Sport Management) (p. 426)
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• Interdisciplinary Studies, BarSc. (p. 522)
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• Medical Anthropology Minor (p. 31)
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• Medical Humanities Minor (p. 117)
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• Music Industry Studies Minor (p. 498)
• Music Minor (p. 498)
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• Naval Science Minor (p. 220)
• Neuroscience Minor (p. 41)
• Nuclear Engineering Minor (p. 424)
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• Nursing-R.N., B.S.N. (p. 512)
• Nutrition and Food Systems Minor (p. 460)
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• Organizational Leadership, B.A. (p. 526)
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• Philosophy Minor (p. 179)
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• Physical Education, B.S.P.E. (p. 363)
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• Retailing Minor (p. 430)
• Retailing, B.S. (p. 430)
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• Russian Minor (p. 153)
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• Secondary Education Mathematics Minor (p. 357)
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• Sociology, B.A. (p. 277)
• Sociology, B.S. (p. 279)
• Southern Studies Minor (p. 120)
• Spanish Minor (p. 156)
• Spanish, B.A. (p. 156)
• Speech Communication Minor (p. 76)
• Sport and Entertainment Management Minor (p. 444)
• Sport and Entertainment Management, B.S. (p. 444)
• Sports Media Minor (https://academicbulletins.sc.edu/undergraduate/information-communications/journalism-mass-communications/sports-media-minor/)
• Statistics Minor (p. 284)
• Statistics, B.S. (p. 284)
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• Theatre, B.A. (p. 297)
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• Visual Communications, B.A.J.M.C. (p. 487)
• Women’s and Gender Studies Minor (p. 120)
• Women’s and Gender Studies, B.A. (p. 120)
COLLEGE OF ARTS AND SCIENCES

Dr. Joel Samuels, Interim Dean
Dr. Claudia Benitez-Nelson, Associate Dean for Instruction, Community Engagement, and Research
Dr. Cynthia J. Davis, Associate Dean for Arts, Humanities, and Academic Initiatives
Dr. Christy Friend, Interim Associate Dean for Enrollment Management, Advising, and Retention
Dr. Todd Shaw, Interim Associate Dean for Diversity, Equity, and Inclusion and for Social Sciences
Dr. Jeff Twiss, Interim Associate Dean for Research and Graduate Education
Dr. Qiana Whitted, Interim Associate Dean for College Initiatives and Interdisciplinary Programs

Overview of the College

The College of Arts and Sciences is the oldest, largest and most academically diverse college at the University of South Carolina. Its disciplines in the arts, humanities and sciences have formed the university's intellectual core since its founding in 1805. By providing most courses in the Carolina Core, the college provides a foundation for every University of South Carolina undergraduate student. Today, the college is also a vibrant community of learning on the forefront of advances in teaching, learning and research.

The college offers over 40 majors and minors and more than 70 graduate programs, giving students a broad selection of study areas. Rooted in the liberal arts tradition, the college provides a broad education that champions critical thinking, creativity, communication skills, resilience, teamwork and other skills and attributes that form the foundation of success in graduates' lives and careers.

The college enriches student learning through active teaching, academic advising, career development and learning beyond the classroom. The Student Excellence Collaborative provides student services and facilitates advising, study abroad, internships and career development with staff dedicated to the needs of arts and sciences students. The Incubator for Teaching Innovation assists faculty with enhancing classroom learning through a variety of teaching methods.

As the heart of a major research university, the college is a hub of research excellence and creative activity. Its faculty-led research programs advance knowledge and produce new work with impact in literature, medicine, education, climate science, public policy, and more. Its arts programs also make a cultural contribution to South Carolina and beyond. These programs provide hands-on, engaged learning for both undergraduate and graduate students, but they also serve as a catalyst for positive change in the local community, the state, the nation and the world. The College of Arts and Sciences transforms the lives of our students and improves the world they will inhabit by creating and sharing knowledge at the frontiers of inquiry.

Academic Departments

The College of Arts and Sciences consists of the Departments of Anthropology; Biological Sciences; Chemistry and Biochemistry; Criminology and Criminal Justice; English Language and Literature; Geography; History; Languages, Literatures, and Cultures; Mathematics; Philosophy; Physics and Astronomy; Political Science; Psychology; Religious Studies; Sociology; Statistics; and Theatre and Dance, as well as the School of the Earth, Ocean and Environment and the School of Visual Art and Design. Interdisciplinary Programs include African American Studies, Film and Media Studies, Global Studies, Jewish Studies, Linguistics, and Women’s and Gender Studies. Through departmental and interdepartmental programs in these areas, the college offers the undergraduate degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, and Bachelor of Arts in Interdisciplinary Studies. The college also offers both a Bachelor of Arts and a Bachelor of Science degree program in Economics as well as a Bachelor of Science in Cardiovascular Technology that combines 100 semester hours of academic work with a clinical program at an accredited hospital.

Additional programs that offer undergraduate courses and opportunities include African Studies, Asian Studies, Islamic World Studies, Linguistics, Russian and Eurasian Studies, Southern Studies, and Speech Communication and Rhetoric. Aerospace Studies, Military Science, and Naval Science administer the University’s ROTC programs.

In addition to serving students majoring in any of the established arts and sciences disciplines, the constituent departments and programs of the College of Arts and Sciences offer courses included in the general degree requirements and elective options for all baccalaureate students at the University. Academic units in the college also participate actively in the South Carolina Honors College.

Centers and Institutes

Centers and institutes within the college include the Belle W. Baruch Institute for Marine and Coastal Sciences, Center for Civil Rights History and Research, Center for Digital Humanities, Center for Geographic Education, Center for Science Education, Electron Microscopy Center, GISCiences Research Laboratory, Hazards and Vulnerability Research Institute, Interdisciplinary Mathematics Institute, Institute for African American Research, Institute for Mind and Brain, Institute for Southern Studies, McCausland Center for Brain Imaging, Parenting and Family Research Center, Psychological Services Center, S.C. Institute of Archaeology and Anthropology, and the Walker Institute of International and Area Studies.

The college also is home to the McKissick Museum, which fosters awareness and appreciation for the history of the university and the community, culture and environment of the American South.

Accreditations

The School of Visual Art and Design is accredited by the National Association of Schools of Art and Design (NASAD.) The Department of Chemistry and Biochemistry has been approved by the American Chemical Society's (ACS) Committee on Professional Training, and the curriculum for the Bachelor of Science in Chemistry meets ACS requirements. In the Department of Psychology, the graduate degrees in Clinical/Community Psychology are accredited by the American Psychological Association (APA); graduate degrees in School Psychology are accredited by the American Psychological Association (APA) and the National Association of School Psychologists (NASP) through a partnership with the National Council on Accreditation of Teacher Education (NCATE.). The Master of Public Administration degree offered by the Department of Political Science is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA.) The Department of Theatre and Dance is accredited by the National Association of Schools of Theatre (NAST) and the University/Resident Theatre Association (URTA.) Through selected degree programs, the College of Arts and Sciences participates in the teacher education
programs of the University that are accredited by the National Council for Accreditation of Teacher Education.

**College Academic Policies**

**Progression Requirements**

To remain in a degree program offered by the College of Arts and Sciences, a student must make satisfactory academic progress toward the degree. Some of our majors have progression requirements that each student must meet to remain in the major. When a student fails to meet these progression requirements, students must choose another major. A student who fails to make satisfactory progress may be placed on academic probation or removed from the college. In addition, all students in the college are subject to the regulations on probation, suspension, and readmission in the section of this bulletin titled "Academic Regulations." Additional progression and retention requirements for specific majors are specified in the appropriate section of the bulletin.

The faculty of the College of Arts and Sciences recognizes the importance of clear, precise, and correct writing as part of a liberal education. Therefore, the faculty encourages the assignment of written work and fully supports professors who require written assignments to conform to reasonable standards of organization, development, coherence, and acceptable English usage.

**Attendance Requirements**

Enrollment in a course obligates the student not only for prompt completion of all work assigned but also for punctual and regular attendance and for participation in whatever class discussion may occur. It is the student's responsibility to keep informed concerning all assignments made. Absences, whether excused or unexcused, do not absolve the student from this responsibility.

**Graduation**

In order to be eligible for graduation, students in the College of Arts and Sciences must meet all course requirements for the degree program, have a minimum of 120 applicable credit hours, be in good standing, meet any departmental or program requirements, and have a cumulative GPA of at least 2.00 on all work attempted at the university.

Department and program requirements appear under the appropriate departmental listing.

**Advising**

Students who wish to pursue a degree program in the College of Arts and Sciences must be admitted to the college and advised within the college. Each of the degree programs of the college has a director of undergraduate studies who supervises the academic advising of the students majoring in that program. Although it is the responsibility of students in the college to ensure that they complete all graduation requirements, the faculty and administration of the college make every effort possible to see that students are provided with accurate and timely academic advising. Students must see their academic advisors at least once each semester for assistance in planning their academic program. No student will be allowed to complete the registration process without an advising form approved by an assigned advisor.

Freshmen planning to major in one of the college's degree programs in the humanities, social sciences, or arts are advised by the college's freshman Dean's advisors. Assignment of students to specific Dean's advisors is handled by the Student Excellence Collaborative (SEC) at Flinn Hall; upon the completion of the first 30 hours, students transition to the major department or program, where they are assigned a major advisor who is responsible for planning and approving the program of study.

Freshmen planning to major in the sciences, mathematics, statistics, or cardiovascular technology are assigned a major advisor within the Department or Program upon entry to the college.

During the next-to-last semester before graduation, students must arrange for their academic advisor to complete a major program card; students must then schedule an appointment for a senior records check in the Student Excellence Collaborative in Flinn Hall. Any deficiencies in general education, major, minor, cognate, or special departmental requirements will be noted. This information should form the basis for the student's final academic advising.

All advising, senior records checks, graduation, and related processes for students majoring in one of the college's degree programs are supervised by the Student Excellence Collaborative, Flinn Hall.

It is the responsibility of each student to understand and complete all requirements for the degree. Each student should obtain a copy of the Guidelines for Advising from their advisor or from the Student Excellence Collaborative at Flinn Hall.

The student's major department and major advisor should be consulted for interpreting and applying major, minor, and cognate requirements. The college's Student Excellence Collaborative at Flinn Hall is the final authority on all degree requirements. Students should consult this office with all concerns on the applicability of curricular requirements.

Students seeking further information should contact the Associate Dean for Enrollment Management, Advising, and Retention, Dr. Loren Knapp, LWKNAPP@mailbox.sc.edu or call 803-777-2993.

**Right of Petition**

A student may seek relief from academic standards and regulations by appealing to the Scholastic Standards and Petitions Committee of the College of Arts and Sciences. Information on procedures may be obtained from the Offices of Undergraduate Academic Affairs and Advising in Flinn Hall.

**Career Development**

Career development initiatives in the College of Arts and Sciences aim to complement academic advising by assisting students in clarifying career directions. Students are encouraged to begin the process of career planning as early as possible, normally in the freshman year. Career coaches are available in the Career Center to assist students in gaining an understanding of the student's own interests, values, abilities, and personality; the nature of a liberal education and the related marketable skills; and the numerous career opportunities available for arts and sciences students. The Career Center provides individual career counseling, testing, workshops, networking and job shadowing opportunities, job search seminars, resources for graduate school planning, and an online career learning dashboard. In addition, students are encouraged to complement their academic studies with career-related work experience such as internships, cooperative education, part-time work experience, or volunteer work. The Career Center provides advisors with career resource listings to assist them in referring students to the center.

The Student Excellence Collaborative at Flinn Hall as well as individual departments can assist students with identifying internship experiences appropriate for their academic and career interests.
Beyond the Classroom
The College of Arts and Sciences encourages students to seek learning opportunities beyond the classroom. This may include study abroad, internships, service learning, research, independent study courses and other activities.

The Student Excellence Collaborative facilitates study abroad and internships in the college.

The college endorses the use of departmental independent study courses to further students’ intellectual pursuits in alternative ways. Before students may register for an independent study course, they must present a completed independent study contract that has been approved by the instructor overseeing independent study project, the major advisor, and the Associate Dean for Enrollment Management, Advising, and Retention in the college. No student may apply more than 15 hours of independent study credits toward the degree. Unless approved as a part of the major, minor, or cognate, independent study courses will be graded only on a Pass-Fail basis. A grade point average of 2.50 or greater is required to enroll in independent study courses.

Teacher Preparation Programs
The College of Arts and Sciences participates in teacher preparation programs for undergraduate students who wish to pursue teacher certification. Several options are available within the College of Arts and Sciences and in collaboration with the College of Education.

5-year Bachelor's and Master's Degree Program
The University of South Carolina (Columbia campus)’s innovative, five-year program is closely coupled with a student’s undergraduate major. After earning a bachelor’s degree in the appropriate discipline in the College of Arts and Sciences, a student may earn a master’s degree in the College of Education, leading to teacher certification. Students must apply and be admitted to the master’s year of this program, and must complete all prerequisites for the master’s degree program as specified by the College of Education.

Students who plan to pursue the Master of Teaching degree may pursue a bachelor’s degree in the College of Arts and Sciences in the appropriate discipline.

Teaching Area (Bachelor’s Degree)

- English (Bachelor of Arts in English)
- Secondary social studies (BA or BS (as applicable) in history, economics, geography, political science, international studies, psychology, or sociology)
- Secondary science or mathematics (Bachelor of Science in biology, chemistry, physics, or mathematics)

The Master of Arts in Teaching (MAT) degree is also available at the University of South Carolina in selected disciplines, including art, foreign languages and theatre.

Bachelor’s Degree Teacher Preparation Options
The College of Arts and Sciences also offers a Bachelor of Fine Arts with a major in art education that prepares students for K-12 certification in art. Students majoring in dance with a concentration in dance education K-12 are prepared for certification in K-12 dance.

Students majoring in Classics, French, German, or Spanish may seek K-12 teacher certification in Latin, French, German, or Spanish through a teacher preparation option at the undergraduate level.

The Center for Science Education assists individual departments in offering content-specific courses in their disciplines designed for in-service and pre-service teachers. For details on available courses, students can contact the Center for Science Education or communicate with their advisors.

College Curricula
Degree requirements vary among the undergraduate degree programs in the College of Arts and Sciences. The curricula established for all baccalaureate degrees awarded by the college include a set of courses that fulfill general education requirements, a set of courses that comprise a departmental major, a set of courses that comprise a cognate or minor, and several hours of free elective courses. A course may be used to fulfill only one requirement. Students who choose to complete one of the college’s degree programs are advised to read carefully the statement of the major department or program and to consult frequently with the major advisor. Students who wish to change a major field of study during the final 30 hours of academic work can only do so after consultation with staff members of the Student Excellence Collaborative at Flinn Hall.

General Education Requirements
Degree candidates in the College of Arts and Sciences must satisfy the general education requirements prescribed for the specific degree program. These requirements are designed to provide students with a broad experience in the liberal arts and sciences and opportunities to develop intellectual skills in analysis, synthesis, and evaluation, as well as competence in written and oral communication. General education is not defined by subject matter alone, but rather by an attitude toward the world that emphasizes intelligent functioning as a human being.

The General Education requirements of the College of Arts and Sciences are derived from the learning outcomes on which the Carolina Core, the University’s general education curriculum for all baccalaureate degrees, is based. The college’s General Education requirements include all requirements in the Carolina Core; also, the college’s requirements include specified or additional requirements that must be met for baccalaureate degrees offered by the college.

Each student must complete the specified number of hours or attain the desired level of achievement in the groups of courses outlined below. Note that the credit hours required in some of these groups vary somewhat between the B.A. and B.S. degrees. In planning the course of study during the first two years, a student should give precedence to courses that satisfy the general education requirements. Students must complete ENGL 101 (https://academicbulletins.sc.edu/search/?P=ENGL%20101) and ENGL 102 (https://academicbulletins.sc.edu/search/?P=ENGL%20102) within the first 60 semester hours of work in order for these courses to be credited toward graduation.

Majors and Degrees

- African American Studies (Bachelor of Arts)
- Anthropology (Bachelor of Arts)
- Art Education (Bachelor of Fine Arts)
- Art History (Bachelor of Arts)
- Art Studio (Bachelor of Arts, Bachelor of Fine Arts)
- Biochemistry and Molecular Biology (Bachelor of Science)
- Biological Sciences (Bachelor of Science)
- Cardiovascular Technology (Bachelor of Science)
The intensive major is often conceived specifically as preparation for professional or graduate study. A minimum grade of C is required for any course submitted for fulfillment of general or intensive major requirements. At least half of the major courses must be taken in residence in the College of Arts and Sciences in order to apply to the degree.

Several majors in the College of Arts and Sciences offer a Graduation with Distinction option that does appear on transcripts and diploma if students complete the additional credit hours and other requirements. These majors include:

- Anthropology
- English
- Geography
- Geology
- Geophysics
- History
- International Studies
- Mathematics
- Philosophy
- Political Science
- Religious Studies
- Sociology

For details about the Graduation with Distinction requirements, see the academic bulletin page for each program.

**Interdisciplinary Studies**

The College of Arts and Sciences offers the Bachelor of Arts in Interdisciplinary Studies for students who want a program of interdisciplinary studies without a major in a single department or in a structured interdepartmental degree program. For details see the bulletin for “Interdisciplinary Studies.”

**Second Major**

In some degree programs of the College of Arts and Sciences, a student may elect a second major. Normally, second majors are possible only in degree programs with similar general requirements and are thus not available from other schools and colleges. In those cases students may apply for two separate degrees. The second major option is not available in all colleges.

The following specifications for a second major apply:

1. The student must meet admission and progression requirements for the second major.
2. In those cases where second majors in two separate colleges are possible, the student must have received approval from both deans for a second major.
3. All requirements for the second major must be fulfilled.
4. All general education and special departmental requirements normally associated with the second major must be fulfilled.
5. In cases where the first major and the second major lead to different degrees, the student must designate one as the official degree of record.

A second major eliminates the cognate requirement; however, special departmental requirements normally completed as part of the cognate are not waived. Fulfillment of the requirements for a second major are indicated on the student's official transcript upon graduation. The
requirements for the second major must be completed prior to graduation in order for the second major to be noted on the transcript.

**Second Baccalaureate Degree**

For information on second degrees, see “Graduation” in the academic regulations chapter of this bulletin.

**Cognates**

The cognate is intended to support the course work in the major or compliment itself. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs in the College of Arts and Sciences that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences.

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

**Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences**

- **Accounting (ACCT):** all numbered 300 and above
- **Aerospace Studies (AERO):** all numbered 300 and above
- **African American Studies (AFAM):** all
- **Anthropology (ANTH):** all numbered 200 and above
- **Arabic (ARAB):** all numbered 300 and above
- **Army/Military Science (ARMY):** all numbered 300 and above
- **Art Education (ARTE):** all numbered 300 and above
- **Art History (ARTH):** all numbered 300 and above
- **Art Studio (ARTS):** all numbered 200 and above
- **Astronomy (ASTR):** all numbered 300 and above
- **Biological Sciences (BIOL):** all numbered 300 and above
- **Chemistry (CHEM):** all numbered 321 and above
- **Chinese (CHIN):** all numbered 300 and above
- **Classics (CLAS):** all
- **Communication Sciences and Disorders:** all numbered 300 and above
- **Comparative Literature (CPLT):** all numbered 300 and above
- **Computer Science (CSCE):** all numbered 145 and above
- **Criminology and Criminal Justice (CRJU):** all numbered 311 and above
- **Dance (DANC):** all numbered 300 and above
- **Economics (ECON):** all numbered 300 and above
- **Education (EDCE, EDEC, EDLD, EDET, EDEX, EDFN, EDFL, EDML, EDPY, EDRD, EDRM, EDSE, EDTE, PEDU):** all numbered 300 and above except directed teaching courses and seminars
- **Engineering (BMEN, ECHE, ECIV, ELCT, EMCH, ENCP):** all numbered 200 and above
- **English (ENGL):** all numbered 300 and above
- **Environment and Sustainability (ENVR):** all numbered 231 and above
- **European Studies (EURO):** all numbered 300 and above
- **Exercise Science (EXSC):** all numbered 300 and above
- **Film and Media Studies (FAMS):** all numbered 200 and above
- **Finance (FINA):** all numbered 300 and above
- **Foreign Language (FORL):** all numbered 300 and above except directed teaching courses and seminars
- **French (FREN):** all numbered 300 and above
- **Geography (GEOG):** all numbered 200 and above
- **Geology (GEOL):** all numbered 202 and above
- **German (GERM):** all numbered 300 and above
- **Global Studies (GLST):** all
- **Greek (GREK):** all numbered 300 and above
- **Health Promotion, Education and Behavior (HPEB):** all numbered 300 and above except HPEB 335 (https://academicbulletins.sc.edu/search/?P=HPEB%20335)
- **History (HIST):** all numbered 300 and above
- **Hotel, Restaurant, and Tourism Management (HRTM):** all numbered 300 and above
- **Integrated Information Technology (ITEC):** all numbered 300 and above
- **International Business (IBUS):** all numbered 300 and above
- **Italian (ITAL):** all numbered 300 and above
- **Japanese (JAPA):** all numbered 300 and above
- **Jewish Studies (JSTU):** all numbered 300 and above
- **Journalism (JOUR):** all numbered 300 and above
Latin (LATN): all numbered 300 and above
Latin American Studies (LASP): all
Library and Information Science (SLIS): all numbered 300 and above
Linguistics (LING): all numbered 300 and above
Management (MGMT): all numbered 371 and above except MGMT (https://academicbulletins.sc.edu/search/?P=MGMT%20499) 498 and 499
Management Science (MGSC): all numbered 300 and above except MGSC 498 (https://academicbulletins.sc.edu/search/?P=MGSC%20499), MGSC 499
Marine Science (MSCI): all numbered 215 and above
Marketing (MKTG): all numbered 300 and above
Mathematics (MATH): all numbered 241 and above except MATH 401 (https://academicbulletins.sc.edu/search/?P=MATH%20401)
Media Arts (MART): all numbered 200 and above
Music (MUSC): MUSC 115 (https://academicbulletins.sc.edu/search/?P=MUSC%20115), MUSC 116 (https://academicbulletins.sc.edu/search/?P=MUSC%20116), MUSC 145 (https://academicbulletins.sc.edu/search/?P=MUSC%20145) and all numbered 200 and above
Naval Science (NAVY): all numbered 300 and above
Nursing (NURS): all numbered 200 and above
Pharmacy: all numbered 300 and above
Philosophy (PHIL): all numbered 200 and above
Physics (PHYS): all numbered 212 and above
Political Science (POLI): all numbered 300 and above
Portuguese (PORT): all numbered 300 and above
Psychology (PSYC): all numbered 300 and above
Religious Studies (RELG): all numbered 300 and above
Retailing (RETL): all numbered 300 and above
Russian (RUSS): all numbered 300 and above
SC Honors College (SCHC): pending advisor approval
Social Work (SOWK): all numbered 300 and above
Sociology (SOCY): all numbered 300 and above
Southern Studies (SOST): all numbered 300 and above
Spanish (SPAN): all numbered 300 and above
Speech (SPCH): all numbered 200 and above
Sport and Entertainment Management (SPTE): all numbered 300 and above
Statistics (STAT): all numbered 300 and above
Theatre (THEA): all numbered 230 and above
Women's and Gender Studies (WGST): all numbered 300 and above
Minors
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major.

Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

Minors are available in participating departments of the College of Arts and Sciences and in other colleges. For descriptions of specific minors, students should see the appropriate sections of the bulletin.

A list of minor programs of study can be found at Programs A-Z (https://academicbulletins.sc.edu/undergraduate/programs-az/)

Electives
Each degree in the College of Arts and Science requires a minimum number of credit hours in academic subjects.

No courses of a physical education (1 credit), first aid, remedial, developmental, skill-acquiring, or vocational nature may be applied as credit toward a degree in the College of Arts and Sciences. To encourage the student to challenge themselves by taking electives that will broaden their educational background, the College of Arts and Sciences permits the use of the Pass-Fail option on true elective courses that are not being used to satisfy major, minor, cognate or core requirements. This option is not available on all courses, so students should check course descriptions and consult with their advisors while choosing electives.

Other Regulations
In addition to the University academic regulations, students pursuing baccalaureate degrees in the College of Arts and Sciences are subject to the following:

1. A student shall not be permitted to enroll for more than 18 credit hours without the approval of the assistant dean of the college.
2. The assistant dean of the college, with the recommendation of the appropriate faculty, may authorize a student to repeat a course.

College Department and Program Areas
Click the links below to view programs and courses administered by each unit.
• Aerospace Studies (p. 18)
• African American Studies (p. 20)
• Anthropology (p. 22)
• Biological Sciences (p. 32)
• Cardiovascular Technology (p. 102)
• Cardiovascular Technology (p. 102)
• Chemistry and Biochemistry (p. 42)
• Criminology and Criminal Justice (p. 53)
• Economics (College of Arts and Sciences) (p. 57)
• English Language and Literature (p. 64)
• European Studies (p. 76)
• Film and Media Studies (p. 76)
• Geography (p. 78)
• Global Studies (p. 88)
• History (p. 89)
• Interdisciplinary Studies (College of Arts and Sciences) (p. 98)
• Jewish Studies (p. 122)
• Languages, Literatures, and Cultures (p. 123)
• Latin American Studies (p. 158)
• Linguistics (p. 160)
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• Philosophy (p. 174)
• Physics and Astronomy (p. 181)
• Political Science (p. 187)
• Psychology (p. 201)
• Religious Studies (p. 210)
• ROTC (p. 216)
• School of the Earth, Ocean and Environment (p. 220)
• School of Visual Art and Design (p. 249)
• Sociology (p. 274)
• Southern Studies (p. 281)
• Statistics (p. 282)
• Theatre and Dance (p. 287)
• Women's and Gender Studies (p. 300)

Aerospace Studies
Department Website (http://artsandsciences.sc.edu/aero/)

Stewart Newton, Chair

The Air Force Reserve Officer Training Corps (AFROTC) Program offered by the Department of Aerospace Studies is conducted pursuant to provisions of the ROTC Vitalization Act of 1964. AFROTC is a leadership program for college students interested in earning a commission and entering the active duty Air Force as an officer, after completing a bachelor's degree. AFROTC instructs students in military heritage, the development of air and space power, military ethics, drill and ceremonies, communication, human relations, and leadership theory and techniques. Teaching methods include instructor presentations, student discussions and team projects, and hands-on leadership exercises. All books and uniforms associated with AFROTC are provided at no cost to the student. Additionally, students may enroll for academic credit only. The AFROTC program is optimized to cover eight semesters of a typical student career. However, the program can be tailored to accommodate as few as the final six semesters prior to degree completion. Contact the Department of Aerospace Studies for details.

General Military Course (GMC)
Qualified freshman and sophomore students may enroll as Air Force ROTC cadets in the general military course. This program allows students to “try out” Air Force ROTC for up to two years without incurring any obligation unless on an Air Force ROTC scholarship. Students will learn about Air Force history, the historical development of airpower, and basic officer skills. Testing and screening are accomplished during the sophomore year to determine those cadets qualified for enrollment in the professional officer course. Enrollment in AERO 101/AERO 102 or AERO 201/AERO 202, plus the corequisite lab, is required to maintain good standing in the GMC.

Professional Officer Course (POC)
Upon successful completion of a four-week field-training course at an Air Force base, qualified cadets may enroll in the professional officer course during their last two years of college. POC courses offered by the Department of Aerospace Studies are designed to prepare selected juniors and seniors for their responsibilities as Air Force officers. A subsistence stipend is paid during the last two years of college to cadets maintaining the minimum grade point average for advancement. Enrollment in AERO 301/AERO 302 and AERO 401/AERO 402, plus the corequisite lab, is required to maintain good standing in the POC. Successful completion of the POC results in receiving a commission as a second lieutenant in the United States Air Force.

Program Qualification Requirements
• Be a full-time undergraduate student
• Be a U.S. citizen
• Meet AFROTC height and weight standards
• Have good moral character and no history of illegal drug use or serious civil involvements
• Be medically qualified
• Pass the Air Force Officer Qualifying Test
• Pass an AFROTC Physical Fitness Assessment Test
• Successfully complete field training requirements
• Be in good academic standing
• Be between 17 and 30 years old
• Not be a single parent

Scholarship Opportunities
College Students: Air Force ROTC offers two, three, and four-year scholarships to college students in many majors. These scholarships include partial to full tuition and fees, a book allowance, and a monthly nontaxable stipend. Selection is based on student scores on the Air Force Officer Qualifying Test, cumulative grade point average, a physical fitness assessment, SAT (or equivalent) score and a rating from the cadre. To apply for any scholarship, contact the Department of Aerospace Studies.

High-School Seniors and Graduates: There are also scholarships available, on a competitive basis, to high-school seniors or graduates who have not enrolled as full-time college students. For up to four years, these scholarships pay partial to full tuition and fees, a textbook allowance, plus a monthly nontaxable stipend. Students should apply at afrotc.com (http://www.afrotc.com) prior to December 1 of the year preceding the fall term they would enter the University full-time.
Physical Conditioning

Mandatory physical conditioning is an integral part of the Department of Aerospace Studies curriculum and is required for all Leadership Lab courses including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AERO 101L</td>
<td>Initial Military Training Cadet Leadership Laboratory I</td>
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</tr>
<tr>
<td>AERO 102L</td>
<td>Initial Military Training Cadet Leadership Laboratory II</td>
<td>0</td>
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<tr>
<td>AERO 201L</td>
<td>Field Training Preparation Cadet Leadership Laboratory I</td>
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<td>AERO 202L</td>
<td>Initial Field Training Preparation Cadet Leadership Laboratory II</td>
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<td>AERO 301L</td>
<td>Intermediate Cadet Leader Leadership Laboratory I</td>
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<td>AERO 302L</td>
<td>Intermediate Cadet Leader Leadership Laboratory II</td>
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<tr>
<td>AERO 401L</td>
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<td>AERO 402L</td>
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<tr>
<td>AERO 499L</td>
<td>Extended Cadet Leader Leadership Laboratory</td>
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</tbody>
</table>

Courses

AERO 101 - The Foundation of the U.S. Air Force I (1 Credit)
Survey course introducing students to the U.S. Air Force and AFROTC. Topics include mission and organization of the Air Force, officership, professionalism, military customs and courtesies, and officer career opportunities.

AERO 101L - Initial Military Training Cadet Leadership Laboratory I (0 Credits)
Provides cadets the basic skills/knowledge to be functional members of the cadet corps, and activities to build camaraderie and esprit-de-corps. Includes mandatory physical fitness program.

AERO 102 - The Foundation of the U.S. Air Force II (1 Credit)
Continuation of AERO 101. Additional topics include Air Force core values, leadership principles, group leadership dynamics, and an introduction to verbal and written communications skills.

AERO 102L - Initial Military Training Cadet Leadership Laboratory II (0 Credits)
Continuation of AERO 101L. Exposure to additional information on an Air Force career. Scenarios and problems teach followership and leadership skills. Includes mandatory physical fitness program.

AERO 201 - The Evolution of the U.S. Air Force I (1 Credit)
Examines USAF air and space power from a historical perspective. Covers the earliest aircraft, both World Wars, the Korean and Vietnam conflicts, air and space employment during the Cold War.

AERO 201L - Field Training Preparation Cadet Leadership Laboratory I (0 Credits)
Preparation of students for summer training at an Air Force base; teaching drill and other leadership experiences. Includes mandatory physical fitness program.

AERO 202 - The Evolution of the U.S. Air Force II (1 Credit)
Continuation of AERO 201. This course continues to explore Air Force history, beginning with the Vietnam era and culminating with the application of air and space power in recent conflicts.

AERO 202L - Initial Field Training Preparation Cadet Leadership Laboratory II (0 Credits)
Continuation of AERO 201L. Focuses on AFROTC Honor Code, Field Training Manual/procedures, and expeditionary skills required at field training. Includes mandatory physical fitness program.

AERO 301 - Air Force Leadership Studies I (4 Credits)
Study of leadership, management fundamentals, the profession of arms, personnel evaluation systems, ethics, motivation, team building, change management, and communication skills. Analyses of leadership and management case studies.

Corequisite: AERO 301L.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 301L - Intermediate Cadet Leader Leadership Laboratory I (0 Credits)
Provides cadets opportunities to develop leadership and followership skills, as well as sharpen their planning, organization, and communication ability. Includes mandatory physical fitness program.

Corequisite: AERO 301.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 302 - Air Force Leadership Studies II (4 Credits)
Continuation of AERO 301. Topics include developing subordinates, conflict management, counseling, influence, authority and responsibility, accountability, and moral leadership. Includes case studies on effective supervision and accountability.

Prerequisites: AERO 301.

Corequisite: AERO 302.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 401 - National Security/Leadership Responsibilities/Commissioning Preparation (4 Credits)
Study of U.S. Constitution, the Armed Forces, civilian control of the military, elements of national security, USAF doctrine, Total Force, the Joint environment, terrorism, and regional and cultural studies.

Prerequisites: AERO 302.

Corequisite: AERO 401L.

AERO 401L - Senior Cadet Leader Leadership Laboratory I (0 Credits)
Provides senior cadet leaders opportunities to develop leadership and supervisory skills, and to effectively manage resources toward mission accomplishment. Includes mandatory physical fitness program.

Prerequisites: AERO 302L.

Corequisite: AERO 401.
AERO 402 - Preparation for Active Duty (4 Credits)
Continuation of AERO 401. Topics include additional regional studies, military justice, personnel feedback, evaluation and promotion systems, the military profession, current issues affecting the military, and preparation for active duty.
Prerequisites: AERO 401.
Corequisite: AERO 402L.

AERO 402L - Senior Cadet Leader Leadership Laboratory II (0 Credits)
Continuation of AERO 401L. Allows senior cadet leaders advanced opportunities to hone their leadership in preparation for entering active duty. Includes mandatory physical fitness program.
Prerequisites: AERO 401L.
Corequisite: AERO 402.

AERO 499L - Extended Cadet Leader Leadership Laboratory (0 Credits)
Provides extended cadet leaders opportunities to continue developing leadership, managerial, and communication skills, and to mentor junior cadet corps members. Includes mandatory physical fitness program.
Prerequisites: 402L.

African American Studies
Department Website (http://www.cas.sc.edu/afra/)

Qiana Whitted, Director

The African American Studies Program provides undergraduate majors and minors with the interdisciplinary tools to study the experiences of people of African descent and the resources to evaluate black historical, cultural, social, economic and political developments in South Carolina, the United States, and beyond. With courses organized around the two broad subject areas of “Society and History” and “Arts and Culture,” students will have the opportunity to explore the breadth of the discipline before focusing on an individual plan of study. The program’s principal strengths include black political and social movements, African-American literature, and comparative cultural anthropology.

Courses

AFAM 200 - Freedom Papers: Narratives of Race and Nation (3 Credits)
A study of the United States founding documents that emphasizes how the experiences of African American citizens throughout history and culture shape the country’s values, norms, and ideals.

AFAM 201 - Introduction to African American Studies: Social and Historical Foundations (3 Credits)
Introduction to the key debates, figures, and concepts that are fundamental to the interdisciplinary study of the historical, political, and social development of black life in America.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 202 - Introduction to African-American Studies (3 Credits)
Introduction to the analysis and discussion of creative works and traditions by and about African Americans through folklore, music, art, dance, and literature.
Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 207 - Introduction to African American Religions (3 Credits)
The variety of religious traditions of African Americans, with emphasis on the contexts in which they developed.
Cross-listed course: RELG 207
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 218 - Convergence and Divergence in African American and Jewish Relations: Historical and Contemporary (3 Credits)
An examination of African American and Jewish American inter-ethnic, historical and contemporary connections and disconnections. Implications for educational, social, and social settings are considered.
Cross-listed course: EDTE 218, JSTU 218
Carolina Core: GSS, VSR

AFAM 302 - African-American Feminist Theory (3 Credits)
An interdisciplinary survey of the contributions of African-American women to feminist theory.
Cross-listed course: WGST 308
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 303 - African-American Cultures (3 Credits)
An examination of African-American cultures in the New World.
Cross-listed course: ANTH 231
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 308 - African-American Feminist Theory (3 Credits)
An interdisciplinary survey of the contributions of African-American women to feminist theory.
Cross-listed course: WGST 308
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 330 - Psychology and the African-American Experience (3 Credits)
Psychological theory and research as it applies to African Americans. Explores Africentric and other perspectives and roles of culture, racism, and historical phenomena.
Cross-listed course: PSYC 330
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 331 - Black Experience in the United States to 1865 (3 Credits)
The social, cultural, economic, and political life of black people in the United States to 1865.
Cross-listed course: HIST 211
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 332 - Black Experience in the United States since 1865 (3 Credits)
The social, cultural, economic, and political life of black people in the United States since 1865.
Cross-listed course: HIST 212
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 335 - The American Civil Rights Movement (3 Credits)
Examination of the origins of Jim Crow and the multi-faceted struggle against it, and other forms of racial inequality, in the American South and the rest of the US since the early 20th century.
Cross-listed course: HIST 455
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
AFAM 343 - Religions of the African Diaspora (3 Credits)
Explore development/theologies of African/African Diaspora religions; examine misunderstandings; arrive at a more sophisticated and nuanced vision of these religions and the people who hold them.
Cross-listed course: RELG 343
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 348 - Environmental Racism and Justice (3 Credits)
History of the environmental justice movement and the unequal distribution of environmental harms on low income, minority, and historically marginalized groups.
Cross-listed course: ENVR 348

AFAM 350 - Antiracist Education (3 Credits)
Basic concepts, issues, and practices of antiracist education. Topics include individual and institutional racism, overt and covert racism, curriculum, textbooks, power relationships, teacher-student relationships, and privacy.
Cross-listed course: EDFI 350
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 353 - Introduction to U.S. Racial and Ethnic Politics (3 Credits)
Survey of theories of the impact of race, ethnicity, and racism on American politics, and analysis of major policies and racial group experience regarding American citizenship.
Cross-listed course: POLI 353
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 355 - Race and Ethnic Relations (3 Credits)
Theoretical and empirical approaches related to race/ethnicity and the current state of race relations in America, with some attention to global issues.
Cross-listed course: SOCY 355
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 364 - African-American Politics (3 Credits)
African-American politics from the colonial period to the present. Emphasis on voting rights and strategies to advance black representation.
Cross-listed course: POLI 364
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 365 - Medical Experimentation and the Black Body (3 Credits)
A cross-disciplinary study of how the bodies of Africans and African Americans were used in medical experimentation, starting in the late 18th century and continuing to the present.
Cross-listed course: ANTH 263
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 366 - Medicine, Disease, and Slavery (3 Credits)
An interdisciplinary study of the health of enslaved African Americans during the nineteenth century by focusing on the conceptions, experiences, and dynamics of the relationship between slaves, medicine, healing, and their masters in the Antebellum American South.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 380 - Cultural History of Hip Hop Music (3 Credits)
Roots of rap/hip hop music from African bardic tradition to African American vernacular traditions and development as a musical genre; rap's musical and verbal traits and political ideologies; hip hop's influence on mainstream American society and global youth.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 393 - Race and Science Fiction (3 Credits)
Draws on science fiction to understand the contemporary history of American racial and ethnic politics and to speculate about the significance of race in America's political future.
Cross-listed course: POLI 393
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 397 - Special Topics in African American Society and History (3 Credits)
Reading and research on selected social and historical topics in African American studies. May be repeated as content varies by title.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 398 - Special Topics in African-American Arts and Cultures (3 Credits)
Reading and research on selected arts and cultural topics in African-American studies. May be repeated as content varies by title.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

AFAM 402 - African American Political Thought (3 Credits)
Survey of many of the major schools of historic and contemporary African American political thought.
Cross-listed course: POLI 402
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 420 - Slavery, Literature & Culture (3 Credits)
Interdisciplinary analysis of how the experiences of enslaved people are represented through fiction, autobiography, film, art, and new media.
AFAM 428A - African-American Literature I: to 1903 (3 Credits)
Representative works of African-American writers to 1903.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.
Cross-listed course: ENGL 428
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
AFAM 428B - African-American Literature II: 1903 – Present (3 Credits)
Representative works of African-American writers from 1903 to the present.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.

Cross-listed course: ENGL 428B
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 438D - African Literature (3 Credits)
Authors and literary forms representative of Africa.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.

Cross-listed course: ENGL 438D
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 438E - Caribbean Literature (3 Credits)
Authors and literary forms representative of the Caribbean.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.

Cross-listed course: ENGL 438E
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 442 - African-American English (3 Credits)
Linguistic examination of the structure, history, and use of African-American English, as well as literary presentations, language attitudes, and issues relating to education and the acquisition of Standard English.
Cross-listed course: ANTH 442, ENGL 457, LING 442
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 463 - Jim Crow: Histories & Revivals (3 Credits)
This course critically examines the continuities and discontinuities between Jim Crow and our current historical and political moment.
Cross-listed course: HIST 463

AFAM 476 - Black Activism (3 Credits)
Critical review of theories of community organizing, grassroots activism, and social movements, and examination of contemporary forms of black activism.
Cross-listed course: POLI 476
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 486 - African-American Rhetoric (3 Credits)
African-American rhetoric as manifested in speeches, essays, and other rhetorical artifacts.
Prerequisites: WGST 111 or WGST 112 or ANTH 102.
Cross-listed course: ENGL 486, SPCH 486
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 487 - Black Women Writers (3 Credits)
An examination of literature by and about black women, including fiction, poetry, drama, and autobiography. This study will focus on issues that emerge from the creative representations of black women and the intersections of race, gender, sexuality, and class that interrogate what is both particular and universal experiences.
Prerequisites: ENGL 101, ENGL 102.

Cross-listed course: ENGL 487, WGST 487
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 498 - Seminar in African-American Studies (3 Credits)
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 499 - Seminar in African-American Studies (3 Credits)
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 515 - Race, Gender, and Graphic Novels (3 Credits)
Representations of race and gender in comics with a special emphasis on the experiences of African Americans.
Cross-listed course: WGST 515
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 517 - An Anthropological View of Blacks in Film (3 Credits)
Cultural representations, constructions, production, and consumption of African-American identity in the popular culture medium of feature films.
Cross-listed course: ANTH 517
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 565 - African American Theatre (3 Credits)
The major movements, figures, plays, and critical strategies that have marked the development of African American theatre in the 19th, 20th, and 21st centuries.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.

Cross-listed course: ENGL 565, THEA 565
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 580 - Culture and Identity in the African Diaspora (3 Credits)
Students will explore the African Diaspora as a social, cultural, and historical formation with Africa at its center, focusing on US, Latin American, and Caribbean African-descended communities.
Cross-listed course: ANTH 580
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

Anthropology

Department Website (http://www.cas.sc.edu/anth/)

Jennifer Reynolds, Chair

The department offers an undergraduate major in anthropology leading to the Bachelor of Arts degree.
Programs

- Anthropology Minor (p. 28)
- Anthropology, B.A. (p. 28)
- Medical Anthropology Minor (p. 31)

Courses

ANTH 101 - Primates, People, and Prehistory (3 Credits)
An exploration of human origins, human evolution, human prehistory, and cultural existence from its less complex forms to early civilizations. An introduction to the concepts, methods, and data of physical, biological, and archaeological anthropology.
Carolina Core: GSS

ANTH 102 - Understanding Other Cultures (3 Credits)
An exploration and comparison of selected contemporary cultures, including their languages. An introduction to the concepts, methods, and data of socio-cultural anthropology and anthropological linguistics.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 161 - Human Origins: An Introduction to Biological Anthropology (4 Credits)
An introduction to the science of biological anthropology, a sub-field of anthropology that emphasizes a focus on humanity and its origin from a biological perspective, employing laboratory components to complement and reinforce lecture materials.
Carolina Core: SCI

ANTH 201 - Anthropological Inquiry in Undergraduate Research (3 Credits)
Introduces research-based learning in anthropology from a four-field perspective. To encourage self-reflective, professional thinking and provide experience and practice in professional skills and applications in anthropology.
Graduation with Leadership Distinction: GLD: Research

ANTH 203 - Comparing Cultures Through Film (3 Credits)
Human behavior in differing cultural contexts through ethnographic films of social relations in selected societies.

ANTH 204 - Plagues Past and Present (3 Credits)
An overview of how plagues and epidemics have shaped human prehistory and history. How large-scale social transformations have produced forms of human/disease interactions. How infectious disease has been conceptualized at different times and by different cultural groups and treated as a threat to the social order.
Carolina Core: GSS

ANTH 206 - Anthropology of Magic and Religion (3 Credits)
A comparative examination of such topics as ritual, cosmology, revitalization movements, magic, witchcraft, myth, and possession.
Cross-listed course: RELG 260

ANTH 207 - Gender and Culture (3 Credits)
Anthropological study of gender, with emphasis on cross-cultural investigation of the interaction of biological, cultural, and environmental factors including intersections of race, social class, and sexuality as influences gender behavior.
Cross-listed course: WGST 207
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 208 - Anthropology of Globalization and Development (3 Credits)
Examine cross-cultural definitions and experiences of globalization and development, through topics including colonial legacies of inequality, migration, land use, economic restructuring, media, consumption, tourism, health, and participatory development.
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 209 - Introduction to Folklore (3 Credits)
Folk expression as shaped by various cultures; fieldwork methodology and anthropological theory.

ANTH 210 - Human Life Cycles in Different Cultures (3 Credits)
Childhood, maturity, old age, and gender socialization within the family.
Cross-listed course: WGST 210
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 211 - Learning Across Cultures (3 Credits)
Classroom ethnography, bilingualism, cultural minorities, communication across cultural boundaries. Films, videotapes, and fieldwork in classroom settings.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 212 - Food and Culture (3 Credits)
Biological and cultural interactions affecting foodways around the world, and associated ethical issues.
Carolina Core: GSS, VSR
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 213 - Ethnobotany: Plants and Peoples (3 Credits)
Anthropological overview of the interactions between cultures around the world and the plants that affect them, from cultural, biological, archaeological, and linguistic points of view.
Carolina Core: GSS

ANTH 214 - Drinking in Culture: Anthropology of Alcohol (3 Credits)
Cultures of alcohol production and consumption from ancient times to the present, including relationships among social roles of alcohol, technological innovations, agriculture, and economy in an anthropological perspective.

ANTH 216 - Violence and Peace: Anthropological Perspectives (3 Credits)
Violence and peace in current events, cultural practices, historical periods, and everyday experiences. The ethics shaping violence and peace-making strategies. Classroom discussions and lectures analyzing harm and wellbeing. Themes addressing the Values, Ethics, and Social Responsibility (VSR) Carolina Core component, including colonialism, environmental exploitation, bondage, mass extinctions, and racism.
Carolina Core: VSR

ANTH 219 - Great Discoveries in Archaeology (3 Credits)
Survey of key archaeological discoveries from around the world.

ANTH 221 - Forensics of Sherlock Holmes (3 Credits)
Forensic methods of Sherlock Holmes within the context of modern forensic science. Aspects of forensic science including history of the discipline, forensic pathology, entomology, print analyses, crime scene analysis, forensic anthropology, early scientific theory, and anthropological theory of Holmes.
ANTH 223 - Modernity Archaeology and the Recent Past (3 Credits)
Explores the last five centuries of world history, using artifacts and archival sources. Evidence such as probate records, bottles, and geophysical maps are analyzed to discover the age of sites and answers to questions about topics such as colonialism, race, technology, piracy, class, Native Americans, industrialization, slavery, inequality, capitalism, and gender.

ANTH 224 - Indigenous Caribbean Archaeology (3 Credits)
Historical archaeology and ethnography of the Casimiroid, Ortoiroid, Saladoïd, Ostoonoid, Taino and Carib indigenous culture of the Caribbean from 4,000 BC to 1524 AD. Emphasis on social complexity, religion, art and political organization to illustrate the diversity and richness of Amerindian Caribbean life until their rapid decline after European contact.

ANTH 225 - Archaeology in Film and Popular Culture (3 Credits)
Archaeological images and ideas in modern popular culture, including film and fiction.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 226 - Biblical Archaeology (3 Credits)
The fundamental elements of human culture as it relates to biblical archaeology. The defining characteristics of different kinds of society through interdependency of language and culture. The affects of modern world interests in defining / redefining this area

Cross-listed course: RELG 208

ANTH 227 - Forbidden Archaeology: Fantasies, Frauds, and Mysteries of the Human Past (3 Credits)
History and basis of several popular “fringe” ideas about the human past that utilize archaeological information: giants, Ice Age civilizations, and pre-Columbian transoceanic contact.

ANTH 229 - Southeastern Archaeology (3 Credits)
Major cultural milestones and lifeways experienced by Indians in the archeological record of the southeastern U.S., including colonization, religion, trade, invention of pottery, and place-making.

ANTH 230 - Diversity in the United States (3 Credits)
Application of techniques and insights of social and cultural anthropology to selected cultural settings in contemporary USA.

ANTH 231 - African-American Cultures (3 Credits)
An examination of African-American cultures in the New World.

Cross-listed course: AFAM 303

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 232 - Contemp Cultures of South Carolina (3 Credits)
Application of the methods & techniques of socio-cultural anthropology to the contemporary cultures of SC. Examination of contrasts such as low country and up country, black and white, and rich and poor as they are manifested in cultural patterns.

ANTH 234 - Caribbean Cultures (3 Credits)
Ethnographic approach to Caribbean cultures and societies. Topics include colonial histories and experience, gender and race relations, beliefs and religious life, verbal arts, literature, and Creole language.

ANTH 236 - Cultures of Africa (3 Credits)
A comparative study of ethnographic data on African cultures with emphasis upon its significance for broader anthropological theory.

ANTH 237 - Cultures of Islam (3 Credits)
Diversity of lifestyles and institutions of Islam from Morocco to Indonesia, with attention to everyday life in small communities.

ANTH 238 - Middle Eastern Cultures (3 Credits)
A consideration of selected problems in the social and cultural life of peoples in the Middle East with emphasis on non-Arab populations.

ANTH 240 - South Asian Cultures (3 Credits)
Contemporary and continuing to the present. Emphasis on India. Bangladesh, Nepal, Pakistan, and Sri Lanka also included.

ANTH 241 - Southeast Asian Cultures (3 Credits)
Social and cultural patterns of the region and how they influence current developments, especially Indonesia, Thailand, Vietnam, and the Philippines.

ANTH 242 - Chinese Popular Culture (3 Credits)
An overview of Chinese popular culture with an introduction to broad anthropological frameworks concerning popular culture.

Graduation with Leadership Distinction: GLD: Global Learning

ANTH 243 - Japanese Cultures (3 Credits)
An exploration of Japanese values and the institutions that shape Japanese behavior through analysis or rural and urban community studies and how Japanese people present themselves.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Internships

ANTH 244 - American Indian Nations Today: From Hard Times to Hard Rock (3 Credits)
Contemporary Indian Country in anthropological, historical, cultural, economic, and political contexts.

Carolina Core: GSS, VSR

ANTH 260 - Planet of the Apes: Behavior and Biology (3 Credits)
A survey of field and laboratory investigations of the comparative anatomy and behavior of nonhuman primates.

ANTH 261 - Human Variation (3 Credits)
The biocultural processes of human variation.

ANTH 262 - Basic Forensic Anthropology (3 Credits)
Survey of the basic scientific methods and applications of forensic anthropology.

ANTH 263 - Medical Experimentation and the Black Body (3 Credits)
A cross-disciplinary study of how the bodies of Africans and African Americans were used in medical experimentation, starting in the late 18th century and continuing to the present.

Cross-listed course: AFAM 365

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 270 - Anthropology of Nonverbal Communication (3 Credits)
Body language, facial expressions, gestures, use of interpersonal space, and other nonverbal systems of communication and behavior in terms of pertinent theories, research methodology, findings, and cross-cultural implications.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ANTH 271 - Language and Popular Culture (3 Credits)
Linguistic anthropological study of forms of language through the lens of popular culture. Explore the ethnography of communication through play and performance, discursive and semiotic practices, and varieties of language invoked in popular cultural forms that provide resources for cultural reproduction and contestation.

Cross-listed course: LING 241
ANTH 273 - Cross-Cultural Communication (3 Credits)
This course introduces students to the fields of interactional sociolinguistics and linguistic anthropology. Students will learn how they approach the study of cross-cultural and intercultural forms of (mis)communication within the context of globally interconnected people, places, and systems of communication.
Cross-listed course: LING 273
Carolina Core: GSS

ANTH 280 - Humans Going Nuclear: Atomic Bombs, Cold War, and the Fallout (3 Credits)
Ethnographic study of the Cold War, nuclear culture, and its aftermath.
Carolina Core: GSS, VSR

ANTH 291 - Selected Topics in Anthropology (1-3 Credits)
Topics of special interest. May be taken more than once as topics change.

ANTH 292 - Disease, Health, and Social Inequalities (3 Credits)
Course focuses on political and economic processes contributing to the unequal access to health and social inequalities.

ANTH 301 - Latin American Cultures (3 Credits)
Comparative study of selected Latin American cultures with emphasis on their significance for a broader anthropological theory.
Cross-listed course: LASP 311
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 313 - Ethical Dilemmas in Anthropology (1 Credit)
An examination of ethical decision-making encountered in the practice of anthropology.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 311 - Principles of Archaeology (3 Credits)
Introduction to principles, methods, and theory of archaeology, including prehistoric and historic case studies.

ANTH 320 - Archaeology Theory (3 Credits)
This course charts the history of ideas in archaeology, over the past century, as a means of understanding current directions in archaeological thinking and current applications in archaeological practice.
Prerequisites: ANTH 319.

ANTH 321 - South Carolina Archaeology (3 Credits)
Prehistoric and historic archaeology of South Carolina.

ANTH 322 - Field School in Archaeology (3-6 Credits)
Archaeological field techniques, laboratory analysis and data interpretation.
Prerequisites: ANTH 319.

ANTH 323 - Field School in Ethnography (3-6 Credits)
Designing and carrying out ethnographic research including project design, data collection, analysis and description.

ANTH 324 - Ethnoarchaeology (3 Credits)
Current research on use of modern material culture in archaeological analysis.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 327 - Prehistoric Civilizations of the New World (3 Credits)
Study of Mesoamerican and South American civilizations, particularly the Mayan, Aztec, and Inca states. Processes of state formation as reflected in archaeological data.
Cross-listed course: LASP 325

ANTH 328 - Ancient Civilizations (3 Credits)
Causes for the rise and fall of several civilizations; ideological and ecological factors, unique events, and personalities versus general processes.

ANTH 331 - Mesoamerican Prehistory (3 Credits)
Cultural development and variation in Mesoamerica from the first arrival of man to the arrival of Europeans. Particular attention to cultural continuities from prehistoric times.
Cross-listed course: LASP 322

ANTH 333 - North American Prehistory (3 Credits)
Prehistoric anthropology in North America from the first arrival of man through the beginning of European acculturation.

ANTH 342 - Environmental Anthropology: Cross-cultural Perspectives on Environmental Change (3 Credits)
Cross-cultural perspectives on environmental issues.
Cross-listed course: ENVR 342

ANTH 349 - Anthropology of Work (3 Credits)
Techniques, customs, verbal expressions, and expressive styles of workers in a variety of occupational cultures.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 350 - Anthropology & Development (3 Credits)
An examination of political and economic change in contemporary peasant communities.
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 351 - The Family in Cross-Cultural Perspective (3 Credits)
Kinship, systems of descent, marriage, and domestic organization in different cultures. Variations in childrearing practices, gender, and other aspects of social relations in kin groups.
Cross-listed course: WGST 351
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 353 - Anthropology of Law and Conflict (3 Credits)
Understanding human behavior through the examination of cultural norms, mechanisms of social control, and social conflict.
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 355 - Language, Culture, and Society (3 Credits)
Language in its social setting. The relationship between linguistic categories and culture categories. Language and cognition.
Cross-listed course: LING 340
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 356 - Anthropology of Art (3 Credits)
Sculpture, drama, ceramics, weaving, music, and other arts from tribal societies will be discussed in terms of the religious, social, and aesthetic principles that underlie their production, use, and interpretation.
ANTH 357 - Psychological Anthropology (3 Credits)
Cultural differences and pan-cultural similarities in such psychological features as personality and cognition.

ANTH 359 - Theories of Culture (3 Credits)
Theory and practice of ethnology/sociocultural anthropology, based on a wide range of simple and complex societies.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 360 - Anthropology of Sex (3 Credits)
An overview of human sexuality in different cultures in regions across the globe; an examination of anthropological frameworks for sexuality that draws on historical and modern cultural conceptions.

Graduation with Leadership Distinction: GLD: Global Learning

ANTH 361 - Becoming Human (3 Credits)
The processes of hominoid development with a review of the basic principles of physical and behavioral evolution using the fossil record and the evolving ecological and psychosocial contexts.

ANTH 366 - Medicine, Disease and Slavery (3 Credits)
An interdisciplinary study of the health of enslaved African Americans during the nineteenth century by focusing on the conceptions, experiences, and dynamics of the relationship between slaves, medicine, healing, and their masters in the Antebellum American South.

Carolina Core: GSS

ANTH 371 - Ethnography of Communication (3 Credits)
Ethnographic analysis of communication in human groups and institutions.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 373 - Introduction to Language Sciences (3 Credits)
Introduction to the linguistic component of human cognition. Properties of speech, the organization of language in the mind/brain, cross-linguistic universals, child language acquisition, and aspects of adult language processing.

Cross-listed course: LING 300, PSYC 470

ANTH 374 - Cognitive and Social Aspects of Bilingualism (3 Credits)
Bilingual language development, social and cultural aspects of bilingualism, the bilingual brain, bilingualism throughout the lifespan.

ANTH 381 - Gender and Globalization (3 Credits)
Examines the dialectic between globalization and the social construction of gender. Topics include the global assembly line, transnational markets for domestic labor and sex workers, and global feminist alliances.

Prerequisites: WGST 111 or WGST 112 or ANTH 102.

Cross-listed course: WGST 381

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 388 - Cultures, Pregnancy, and Birth (3 Credits)
Anthropological study of pregnancy and birth with a cross-cultural focus comparing the United States to other nations. Examination of cultural factors such as prenatal care, dietary practices, taboos, birth location, practitioners, and birthing styles.

Cross-listed course: WGST 388

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 391 - Selected Topics in Anthropology (1-3 Credits)
Topics of special interest. May be taken more than once as topics change.

ANTH 392 - Global Women's Health (3 Credits)
This course examines health concerns important to the lives of women around the world through an overview of contemporary issues and challenges in the field of global health, broadly construed.

Cross-listed course: WGST 392

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 399 - Independent Study (3-6 Credits)
Graduation with Leadership Distinction: GLD: Research

ANTH 442 - African-American English (3 Credits)
Linguistic examination of the structure, history, and use of African-American English, as well as literary presentations, language attitudes, and issues relating to education and the acquisition of Standard English.

Cross-listed course: AFAM 442, ENGL 457, LING 442

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 498 - Senior Thesis (3 Credits)
Directed research resulting in a written report.

Prerequisites: GPA of 3.00.

Graduation with Leadership Distinction: GLD: Research

ANTH 499 - In the Tradition of Anthropology (3 Credits)
A seminar synthesizing the major with an examination of anthropology as a field of inquiry.

ANTH 512 - Gender Issues in China (3 Credits)

ANTH 513 - Anthropological Ethnobotany (3 Credits)
Survey of how each anthropological subfield studies the interrelationships between plants and peoples. Application of methods, including interviewing and data analysis.

ANTH 515 - Tradition and Transformations in Islamic Cultures (3 Credits)
Islam as a dynamic cultural tradition: emphasis on the tension between Islamization and the larger Islamic tradition.

Cross-listed course: RELG 551

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

ANTH 517 - An Anthropological View of Blacks in Film (3 Credits)
Cultural representations, constructions, production, and consumption of African-American identity in the popular culture medium of feature films.

Cross-listed course: AFAM 517

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 518 - Visual Cultures (3 Credits)
Survey of visual anthropology including theoretical frameworks of ways of seeing, ethnographic photography and filmmaking, contemporary technologies, and their effects on culture.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 520 - Field Problems in Ethnology (6 Credits)
A two-semester class and field session. Research design, field methods, interpretation of data, and the development of theory from the data.

ANTH 525 - Ethnoecology (3 Credits)
Seminar exploring human-plant-animal-natural interactions within an anthropological framework.
ANTH 533 - North American Archaeology (3 Credits)
Prehistoric and historic archaeology.

ANTH 534 - Prehistoric Archaeology of South America (3 Credits)
Prehistoric archaeology of the South American continent.

Cross-listed course: LASP 425

ANTH 535 - Conflict Archaeology (3 Credits)
Anthropological and archaeological theories and methods in the study of conflict, war, and warfare. Causes, effects, outcomes of sustained social acts of violence of groups, tribes, states, and nations. Evolutionary, biological, social origins of warfare. History, strategy, and tactics, battlefield archaeology.

ANTH 536 - Public Archaeology (3 Credits)
Philosophy and mechanics of modern archaeological Cultural Resource Management (CRM). CRM legislation, regulation, and process. Contemporary issues and problems in Public Archaeology including Native American reburial negotiations, conflict resolution, ethics, looting, business practices, standards, contexts and protection.

ANTH 541 - Field Problems in Archaeology (3 Credits)
Archaeological field methods and techniques such as excavation, flotation, sampling, surveying, photography, and remote sensing.

Prerequisites: ANTH 320.

ANTH 546 - Forensic Archaeological Recovery (FAR) (3 Credits)

ANTH 550 - Archaeological Laboratory Methods (3 Credits)
Laboratory on basic prehistoric and historic artifact analysis, including analytical methods, laboratory equipment, and data interpretation. May be repeated.

Prerequisites: ANTH 319 or ANTH 322.

ANTH 551 - Medical Anthropology: Fieldwork (3 Credits)
Application of observation techniques, field notes, informant interviewing, and secondary data analysis to interpreting differential perceptions of health problem solving in the community and clinic.

ANTH 552 - Medical Anthropology (3 Credits)
Socio-cultural factors in health, illness, healing, and in medical systems. Cross-cultural and ethnographic evidence for public health research and program applications.

Cross-listed course: HPEB 552
Graduation with Leadership Distinction: GLD: Research

ANTH 553 - Anthropological Approaches to Narrative and Performance (3 Credits)
The ways people from various cultures reflect on, reinforce, and construct their social realities through narrating, which will be considered as both artistic expression and social action.

Cross-listed course: LING 545

ANTH 555 - Language and Gender (3 Credits)
Approaches to gender and language emphasizing the social grounding of both; how language reflects sociocultural values and is a tool for constructing different types of social organization.

Cross-listed course: LING 541, WGST 555
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 556 - Language and Globalization (3 Credits)
Anthropological approach to issues of language and globalization. Linguistic consequences of globalization under consideration include communicative patterns, linguistic change, and language and political economy.

Cross-listed course: LING 556
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 557 - Psychological Anthropology (3 Credits)
Psychological aspects of behavior from a cross-cultural perspective.

ANTH 561 - Human Osteology (4 Credits)
An intensive examination of the human skeleton and techniques for anthropological interpretation.

ANTH 565 - Health and Disease in the Past (3 Credits)
Varieties and effects of disease patterns among past populations illustrating biological, environmental, and cultural interrelationships.

ANTH 567 - Human Identification in Forensic Anthropology (3 Credits)
Theories and methodologies necessary for the identification of human skeletal remains in a forensic setting.

ANTH 568 - Nutritional Anthropology (3 Credits)

ANTH 569 - International Development and the Environment (3 Credits)
Intersections of international development and environmental change; study of general theoretical perspectives balanced with case studies from the Global South.

Cross-listed course: GEOG 569
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

ANTH 570 - Ethnographic Film (3 Credits)
Problems in conveying and interpreting ethnographic information on film or tape. Includes syntax, suitability of subject matter to the medium, irrelevant or distracting information, and observer bias.

ANTH 572 - Temporal Processes in Culture (3 Credits)
Clocks, cycles, and contingencies as they affect human societies now and have done so in the past. Theories and models from biology and the other natural sciences will be used to interpret the history of culture.

ANTH 575 - Economic Anthropology (3 Credits)
A cross-cultural study of the economic behavior of pre-literate and literate societies.

ANTH 576 - Archaeology of the African Diaspora (3 Credits)
Foodways, architecture, crafts, and narrative of African-American cultures.

ANTH 577 - Advanced Topics in the Anthropological Study of Social Organization (3 Credits)
Selected recent theoretical and methodological developments in the study of social organization.

ANTH 579 - Cultural Ecology (3 Credits)
An interdisciplinary approach to prehistoric, historic, and contemporary relationships between the development of socio-cultural configurations and ecosystems.
**Anthropology Minor**

**Minor Requirements (18 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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</tr>
<tr>
<td>ANTH 101</td>
<td>Primates, People, and Prehistory</td>
<td>3</td>
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<tr>
<td>or ANTH 161</td>
<td>Human Origins: An Introduction to Biological Anthropology</td>
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<tr>
<td>ANTH 102</td>
<td>Understanding Other Cultures</td>
<td>3</td>
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<tr>
<td><strong>Additional Courses</strong></td>
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</tr>
<tr>
<td>Select four courses at the 200-level or above</td>
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<td>12</td>
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<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td>18</td>
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</tbody>
</table>

**Note:** In certain cases ANTH 101/ANTH 161 or ANTH 102 can be exempted by permission of the Undergraduate Director in the Department and replaced with two other anthropology courses.

**Anthropology, B.A.**

**Learning Outcomes**

- Students will demonstrate their knowledge of the four sub-fields of anthropology, and central themes in the sub-fields. These themes include: 1) the biological and cultural changes that occurred in human prehistory and history 2) cultural diversity worldwide and throughout time 3) relationships between aspects of human life, such as biology, cultural beliefs, material culture, and language and 4) the dynamics at work in different components of cultural systems (e.g. kinship).

- Students will communicate in written form about anthropological themes and topics in a variety of different and appropriate writing styles including research papers, projects, reaction papers, and essay exams. In their writing, students will analyze human situations from an anthropological perspective, and will recognize and evaluate different theories and methods in anthropology.

- Students will demonstrate general techniques of anthropological research and recognize the importance of the principles of anthropological ethics in conducting research. This research will include basic library and internet research, and in some cases, will include data collection and analysis through “hands on” training.

**Admissions**

**Entrance Requirements**

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

**Degree Requirements (120 hours)**

**Program of Study**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>31-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

**1. Carolina Core Requirements (32-44 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- any CC-CMW courses (p. 743)
ARP – Analytical Reasoning and Problem Solving (6-8 hours)
  • any CC-ARP course (p. 743)

SCI – Scientific Literacy (8 hours)
  • Two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
  • CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
  • any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  • any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
  • any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
  • any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
  • any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
  • any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

Choose 1 of the following to fulfill a Carolina Core requirement:
  • ANTH 101
  • ANTH 161

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
  • only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
  • One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
    OR
  • One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300 or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
  • ANTH 102
  • Courses Acceptable for Social Science and Fine Arts or Humanities

3. Program Requirements (31-46 hours)
Cognate or Minor (12-18 hours)
Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303). For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major...
department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (13-34 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Note: 7-28 hours of electives will be needed to reach hours to graduate if completing the B.A. with Distinction.

4. Major Requirements (27 hours)

A minimum grade of C is required in all major courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANTH 204</td>
<td>Plagues Past and Present</td>
<td>3</td>
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<tr>
<td>ANTH 221</td>
<td>Forensics of Sherlock Holmes</td>
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<tr>
<td>ANTH 260</td>
<td>Planet of the Apes: Behavior and Biology</td>
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<td>ANTH 261</td>
<td>Human Variation</td>
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<td>ANTH 262</td>
<td>Basic Forensic Anthropology</td>
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<tr>
<td>ANTH 361</td>
<td>Becoming Human</td>
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<tr>
<td>ANTH 366</td>
<td>Medicine, Disease and Slavery</td>
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<tr>
<td>ANTH 561</td>
<td>Human Osteology</td>
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<td>ANTH 565</td>
<td>Health and Disease in the Past</td>
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<td>ANTH 567</td>
<td>Human Identification in Forensic Anthropology</td>
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<tr>
<td>ANTH 568</td>
<td>Nutritional Anthropology</td>
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</table>

Select one course from Biological Anthropology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTH 203</td>
<td>Comparing Cultures Through Film</td>
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<tr>
<td>ANTH 206</td>
<td>Anthropology of Magic and Religion</td>
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<tr>
<td>ANTH 207</td>
<td>Gender and Culture</td>
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<tr>
<td>ANTH 209</td>
<td>Introduction to Folklore</td>
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<tr>
<td>ANTH 212</td>
<td>Food and Culture</td>
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<tr>
<td>ANTH 213</td>
<td>Ethnobotany: Plants and Peoples</td>
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<tr>
<td>ANTH 216</td>
<td>Violence and Peace: Anthropological Perspectives</td>
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<tr>
<td>ANTH 230</td>
<td>Diversity in the United States</td>
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<tr>
<td>ANTH 231</td>
<td>African-American Cultures</td>
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<tr>
<td>ANTH 232</td>
<td>Contemp Cultures of South Carolina</td>
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<tr>
<td>ANTH 234</td>
<td>Caribbean Cultures</td>
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<tr>
<td>ANTH 236</td>
<td>Cultures of Africa</td>
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<tr>
<td>ANTH 237</td>
<td>Cultures of Islam</td>
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<tr>
<td>ANTH 238</td>
<td>Middle Eastern Cultures</td>
<td></td>
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<tr>
<td>ANTH 240</td>
<td>South Asian Cultures</td>
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<tr>
<td>ANTH 241</td>
<td>Southeast Asian Cultures</td>
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<tr>
<td>ANTH 242</td>
<td>Chinese Popular Culture</td>
<td></td>
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<tr>
<td>ANTH 243</td>
<td>Japanese Cultures</td>
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<tr>
<td>ANTH 301</td>
<td>Latin American Cultures</td>
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<tr>
<td>ANTH 318</td>
<td>Material Culture</td>
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<tr>
<td>ANTH 349</td>
<td>Anthropology of Work</td>
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<td>ANTH 353</td>
<td>Anthropology of Law and Conflict</td>
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<tr>
<td>ANTH 356</td>
<td>Anthropology of Art</td>
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<tr>
<td>ANTH 360</td>
<td>Anthropology of Sex</td>
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<tr>
<td>ANTH 381</td>
<td>Gender and Globalization</td>
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</tr>
</tbody>
</table>
Additional Requirements

ANTH 388  Cultures, Pregnancy, and Birth
ANTH 512  Gender Issues in China
ANTH 515  Tradition and Transformations in Islamic Cultures
ANTH 517  An Anthropological View of Blacks in Film
ANTH 518  Visual Cultures
ANTH 552  Medical Anthropology
ANTH 572  Temporal Processes in Culture
ANTH 579  Cultural Ecology
ANTH 580  Culture and Identity in the African Diaspora
ANTH 581  Globalization and Cultural Questions
ANTH 586  Discourse, Gender and Politics of Emotion

Total Credit Hours 12

Major Electives (15 hours)
- Select one course from the ANTH 500-level
- Select an additional 12 hours from ANTH 200-level or above

Note: Selection of major courses must include at least one of the following courses: ANTH 261, ANTH 319, ANTH 320, ANTH 355, ANTH 366, ANTH 371, ANTH 381, ANTH 518 or ANTH 581.

B.A. with Distinction (33 hours)
Departmental Undergraduate Research Track/Intensive Major is available to students majoring in Anthropology who wish to participate in significant research activities in collaboration with, or under the supervision of, a faculty mentor.

Major Courses (21 hours)
- Select one course from Biological Anthropology (3 hours)
- Select one course from Archaeology (3 hours)
- Select one course from Linguistic Anthropology (3 hours)
- Select one course from Sociocultural Anthropology (3 hours)
- Select one Fieldschool, Laboratory, Practicum, Qualitative Methodology or Quantitative Methodology course (3 hours)
- ANTH 201 OR an additional 500-level course (3 hours)
- ANTH 498 (3 hours)

Major Electives (12 hours)
- Select two courses from the ANTH 500-level (6 hours)
- Select an additional 6 hours from ANTH 200-level or above

Note: Selection of major courses must include at least one of the following courses: ANTH 261, ANTH 319, ANTH 320, ANTH 355, ANTH 366, ANTH 371, ANTH 381, ANTH 518 or ANTH 581.

Additional Requirements
- A minimum major GPA of 3.30.
- A minimum cumulative GPA of 3.30.
- Public presentation of the Senior Thesis in a venue approved by the faculty mentor, such as:
  - Annual meeting of the Southern Anthropological Society (or another annual meeting of the appropriate professional organization)
  - A regular or special session of the Department of Anthropology Colloquium Series
  - USC Discovery Day
  - Submission to a professional journal
- A written sponsorship agreement from the faculty mentor to be placed on file in the Department of Anthropology office.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Anthropology, B.A. (https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_anth_map.pdf)

Medical Anthropology Minor
The Medical Anthropology minor develops students’ understanding of health from the perspective of human cultural and biological diversity, preparing them for careers in global health.

Admission Requirements
- The minor is not open to Anthropology majors
- At least 15 hours used in the minor must be earned at UofSC within the Department of Anthropology

Requirements
The minor in Medical Anthropology consists of 18 credit hours or 6 classes.

Departmental or Honors College special topics courses or field schools related to medical anthropology may fulfill the restricted electives requirement, provided that the course substitutions are pre-approved by the office of the Dean of Undergraduate Student Affairs and Advising in Flinn Hall in consultation with faculty content experts in the Department of Anthropology; bring a syllabus to Flinn Hall for the course you want pre-approved. Appeals to register in pre-approved honors college courses should be directed to the Honors College.

Course  Title  Credits
ANTH 102  Understanding Other Cultures 1 3
ANTH 292  Disease, Health, and Social Inequities 3
ANTH 392  Global Women’s Health 3
ANTH 551  Medical Anthropology: Fieldwork 3
ANTH 552  Medical Anthropology 3

Restricted Electives
Select one of the following: 3
- ANTH 210  Human Life Cycles in Different Cultures
- ANTH 212  Food and Culture
- ANTH 262  Basic Forensic Anthropology
- ANTH 263  Medical Experimentation and the Black Body
- ANTH 280  Humans Going Nuclear: Atomic Bombs, Cold War, and the Fallout
- ANTH 561  Human Osteology

Total Credit Hours 18
ANTH 102 may not also fulfill the Carolina Core GSS component.

**Biological Sciences**

Department Website (http://www.biol.sc.edu/)

Jeff Twiss, Interim Chair

The Department of Biological Sciences offers a Bachelor of Science degree with a major in biological sciences.

**Programs**

- Biological Sciences, B.S. (p. 38)
- Biology Minor (p. 40)
- Neuroscience Minor (p. 41)

**Courses**

**BIOL 101 - Biological Principles I (3 Credits)**

Introductory survey of macromolecules, cell structure and function, genetics, and molecular biology.

*Carolina Core: SCI*

**BIOL 101A - Biological Principles I (3 Credits)**

Introductory survey of macromolecules, cell structure and function, genetics, and molecular biology. Three lecture hours per week. Restricted to students who have credit for BIOL 101L but lack the lecture.

*Prerequisites: BIOL 101L.*

**BIOL 101L - Biological Principles I Laboratory (1 Credit)**

(Recommended concurrent with BIOL 101). Experimental examination of basic principles of cell biology, genetics and metabolism. Three hours per week.

*Carolina Core: SCI*

**BIOL 102 - Biological Principles II (3 Credits)**

Introductory survey of plant and animal development, physiology, ecology, and evolution. Three lecture hours per week.

*Prerequisites: C or better in BIOL 101.*

*Corequisite: BIOL 102L.*

*Carolina Core: SCI*

**BIOL 102A - Biological Principles II (3 Credits)**

Introductory survey of plant and animal development, physiology, ecology, and evolution. Three lecture hours per week. Restricted to students who have credit for BIOL 102L but lack the lecture.

*Prerequisites: BIOL 102L.*

**BIOL 102L - Biological Principles II Laboratory (1 Credit)**

Experimental examination of structure and function of plant and animal systems, biodiversity, ecology. BIOL 101, 102, 101L, and 102L must be completed prior to enrolling in 300-level or above Biology courses.

*Prerequisites: C or better in BIOL 101 and BIOL 101L; recommended concurrent with BIOL 102.*

*Carolina Core: SCI*

**BIOL 110 - General Biology (4 Credits)**

Basic biological concepts and issues for non-biology majors. Credit may not be given for both this course and BIOL 120. Three lecture, two laboratory hours per week.

*Carolina Core: SCI*

**BIOL 110A - General Biology (Audio-Tutorial) (1 Credit)**

Addendum to BIOL 110.

**BIOL 120 - Human Biology (3 Credits)**

Fundamental principles of human biology. Credit may not be given for both BIOL 110 and BIOL 120. Three lecture hours per week. Not for major credit.

*Carolina Core: SCI*

**BIOL 120L - Laboratory in Human Biology (1 Credit)**

Exercises dealing with basic concepts of human biology. Not for major credit.

*Prerequisite or Corequisite: BIOL 120.*

*Carolina Core: SCI*

**BIOL 200 - Plant Science (3 Credits)**

An introduction to plant science for the non-major. This course does not carry major credit, and is not designed as a major requirement.

*Prerequisites: for other biology courses. Plant development, physiology, genetics, evolution, and ecology will be considered. Three lecture hours per week.*

**BIOL 200L - Plant Science Laboratory (1 Credit)**

Laboratory exercises, demonstrations, and audio-visual supplements to BIOL 200. Not for major credit. Two hours per week.

*Prerequisite or Corequisite: BIOL 200.*

**BIOL 206 - Genetics and Society (3 Credits)**

(Designed for non-major students.) Genetic principles, emphasizing human heredity. Relevance of recent advances in genetics. Three lecture hours per week.

*Carolina Core: SCI*

**BIOL 208 - Our Hungry World from Malthus to McDonalds (3 Credits)**

Scientific and social issues concerning the interrelationship of culture and agricultural biotic diversity and technology, climate change, resources management, food security, and human health.

*Carolina Core: SCI, VSR*

**BIOL 220 - Elementary Life Science (4 Credits)**

This course will ensure that elementary education majors will understand the fundamental concepts of Biology. Cannot be used for biology major credit.

**BIOL 232 - Anatomy (3 Credits)**


**BIOL 232L - Anatomy Laboratory (1 Credit)**

The principles of anatomy as demonstrated by microscopic studies and animal dissection. Three hours per week.

*Corequisite: BIOL 232.*

**BIOL 240 - Applied Human Physiology (3 Credits)**


**BIOL 242 - Human Physiology (4 Credits)**

Functional biology of organism systems in the maintenance of the whole organism; homeostatic relationships. Not available for biology major credit. Three lecture and three laboratory hours per week.

*Prerequisites: BIOL 232.*
BIOL 243 - Human Anatomy and Physiology I (3 Credits)
Functional anatomy and physiology of the human body, including the integumentary, skeletal, muscular, and nervous systems. Not available for biology major credit. Three lecture hours per week.
Carolina Core: SCI

BIOL 243L - Human Anatomy and Physiology Laboratory (1 Credit)
The principles of anatomy and physiology as demonstrated by microscopic studies, animal dissection, and physiological experiments. One three-hour laboratory per week.
Prerequisite or Corequisite: BIOL 243.

BIOL 244 - Human Anatomy and Physiology II (3 Credits)
Functional anatomy and physiology of the human body, including the cardiovascular, endocrine, excretory, reproductive, digestive, and respiratory systems. Not available for biology major credit. Three lecture hours per week.
Prerequisites: BIOL 243.

BIOL 244L - Human Anatomy and Physiology Laboratory (1 Credit)
A continuation of BIOL 243L. One three-hour laboratory per week.
Corequisite: BIOL 244
Carolina Core: SCI

BIOL 250 - Microbiology (3 Credits)
An introduction to bacteria and viruses, emphasizing structure, metabolism, and pathogenesis. Discussion of infectious diseases, antigen-antibody relationships, and anti-microbial agents in chemotherapy. Not available for biology major credit. Three lecture hours per week.
Prerequisites: College-level Biology and Chemistry.
Corequisite: BIOL 250L

BIOL 250L - Microbiology Laboratory (1 Credit)
Not available for biology major credit. Three hours per week.
Prerequisite or Corequisite: BIOL 250.

BIOL 260 - Physiology (3 Credits)
Physiology of human systems especially susceptible to disturbance: immunobiology, circulation, excretion, metabolism, endocrinology, and muscle physiology. Not for biology major credit. Intended for pharmacy students.
Prerequisites: BIOL 102.

BIOL 270 - Introduction to Environmental Biology (3 Credits)
Basic ecological principles and the impacts of human population growth and technology. Not for major credit.
Carolina Core: SCI

BIOL 270L - Introduction to Environmental Biology Laboratory (1 Credit)
Demonstrations, data analyses, discussions, and films relating to human ecology, resource use, and environmental impact. Not for major credit. Two hours per week.
Prerequisite or Corequisite: BIOL 270.
Carolina Core: SCI

BIOL 301 - Ecology and Evolution (3 Credits)
Concepts of evolution, populations, and population interactions; communities and ecosystems. Three lecture hours per week.
Prerequisites: BIOL 102 or MSCI 311.

Graduation with Leadership Distinction: GLD: Research

BIOL 301L - Ecology and Evolution Laboratory (1 Credit)
Experiments, exercises, and demonstrations. Three hours per week.
Prerequisite or Corequisite: BIOL 301.

BIOL 302 - Cell and Molecular Biology (3 Credits)
Principles of eukaryotic cell structure, molecular organization, and physiology. Genome organization and expression. Cell growth, division, and cell-cell interactions. Three lecture hours per week.
Prerequisites: BIOL 102 or MSCI 311.

Prerequisite or Corequisite: CHEM 333.

Graduation with Leadership Distinction: GLD: Research

BIOL 302L - Cell and Molecular Biology Laboratory (1 Credit)
Experiments, exercises, and demonstrations. Three hours per week.
Prerequisite or Corequisite: BIOL 302.

BIOL 303 - Fundamental Genetics (3 Credits)
Basic principles of transmission and molecular genetics; quantitative inheritance; recombination; biochemical aspects of gene function and regulation; developmental genetics and population genetics. Three lecture hours per week.
Prerequisites: BIOL 102 or MSCI 311.

BIOL 351 - Introduction to Animal Science (3 Credits)
Exploration of current careers in the animal industry including a brief overview of the sciences involved in animal production such as genetics and selection, behavior, physiology, reproduction, and nutrition of cattle (beef and dairy), horses, swine, sheep, poultry, and others.
Prerequisites: C or better in BIOL 102.

BIOL 398 - Laboratory Teaching Experience (1 Credit)
Participation in preparation and teaching of undergraduate biological sciences laboratories.
Experiential Learning: Experiential Learning Opportunity

BIOL 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

BIOL 405 - Cellular and Molecular Neurobiology (3 Credits)
Cellular and molecular mechanisms underlying the development and functions of the nervous system, such as nervous system patterning, neuronal differentiation/migration, formation of neuronal projections, development of synapses, apoptosis, refinement of neuronal circuits, and how cells and neurons respond to signals from the environment.
Prerequisites: BIOL 302.

BIOL 415 - Comparative Vertebrate Anatomy (4 Credits)
Phylogenetic and comparative aspects of anatomy, reproduction, and embryology of the vertebrates. Three lecture hours and one three-hour laboratory period per week.
Prerequisites: BIOL 102 or MSCI 311.
BIOL 420 - Survey of the Plant Kingdom (3 Credits)
Phylogenetic survey of the major plant divisions; consideration of the structure and development of flowering plants.
Prerequisites: BIOL 301.

BIOL 420L - Survey of the Plant Kingdom Laboratory (1 Credit)
Three hours per week.
Prerequisite or Corequisite: BIOL 420.

BIOL 423 - Medicinal Botany (3 Credits)
A survey of plants affecting human health and how they are used historically and in modern times, with emphasis on the biologically active constituents.
Prerequisites: C or better in BIOL 301 and BIOL 302.

BIOL 425 - Plant Form and Function (3 Credits)
Basic introduction to plants, including cellular biology, energetics, structure-function relationships, development, nutrition, and diversity.
Prerequisites: BIOL 302.

BIOL 425L - Plant Form and Function Laboratory (1 Credit)
Illustration of principles of introductory botany and plant physiology using experiments, exercises, and demonstrations. Three laboratory hours per week.
Prerequisite or Corequisite: BIOL 425.

BIOL 450 - Principles of Biological Oceanography (3 Credits)
Principles and methods of measuring production in the sea. Emphasis on the ocean's role in the global carbon budget. Three lecture hours per week. Scheduled field trips are required.
Prerequisites: MSCI 311, BIOL 301.

Cross-listed course: MSCI 450

BIOL 460 - Advanced Human Physiology (3 Credits)
Functional physiology of human organ systems.
Prerequisites: BIOL 302 or MSCI 311 with a grade of C or better.

BIOL 460L - Advanced Human Physiology Laboratory (1 Credit)
Experiments on organ system functions using different animal models.
Prerequisites: .
Prerequisite or Corequisite: BIOL 460 (with a grade of D or better if used as a

BIOL 461 - Advanced Human Anatomy (3 Credits)
Structure, function, and development of human anatomy.
Prerequisites: Any two of BIOL 301, BIOL 302, or BIOL 303 with a grade of C or better.

BIOL 461L - Advanced Human Anatomy Laboratory (1 Credit)
Practical exercises in structure, function, and development of anatomy using digital and animal models.
Prerequisites: .
Prerequisite or Corequisite: BIOL 461 (with a grade of D or better if used as a

BIOL 462 - Advanced Microbiology (3 Credits)
The taxonomy, morphology, metabolism, genetics, and ecology of microorganisms.
Prerequisites: C or better in BIOL 302.

BIOL 462L - Advanced Microbiology Laboratory (1 Credit)
Practical exercises with the taxonomy, morphology, metabolism, genetics, and ecology of microorganisms.
Prerequisite or Corequisite: D or better in BIOL 462.

BIOL 465 - Domestic Animal Nutrition (3 Credits)
Elements of nutrition and animal feeding in veterinary practice. Three lecture hours per week.
Prerequisites: BIOL 302.

BIOL 497 - Undergraduate Seminar in Biological Sciences (1 Credit)
Student seminars and a survey of research in the fields of Biological Sciences.
Prerequisites: BIOL 301, BIOL 302, and BIOL 303, or Instructor's Permission

BIOL 498 - Biological Research: An Introduction (4 Credits)
Methodologies of biological research with emphasis on hypothesis formation, research design, and data collection, and current issues in biology. Two lecture and six laboratory hours per week.
Prerequisites: one 300-level or higher biological laboratory.

Graduation with Leadership Distinction: GLD: Research

BIOL 502 - Environmental Microbiology (3 Credits)
An overview of the microbial world including a survey of the distribution, functioning, and diversity of microorganisms in natural systems. Discusses the crucial roles that microorganisms play in ecosystem function, biogeochemical cycles, and environmental quality.
Prerequisites: MSCI 102 or BIOL 102, CHEM 112.

Cross-listed course: MSCI 503

BIOL 505 - Developmental Biology (3 Credits)
An introduction to the descriptive and experimental embryology of animals. Living and preserved specimens will be used to demonstrate the basic processes of embryogenesis. Three lecture hours per week.
Prerequisites: or Corequisite: BIOL 302.

BIOL 505L - Developmental Biology Laboratory I (1 Credit)
Descriptive and experimental exercises related to embryology. One three-hour laboratory per week.
Corequisite: BIOL 505.

BIOL 506 - Developmental Biology II (3 Credits)
Molecular aspects of development from gamete formation through tissue and organ differentiation in plants and animals. Three lecture hours per week.
Prerequisites: BIOL 505.

BIOL 506L - Developmental Biology Laboratory II (1 Credit)
A series of experimentally oriented laboratory exercises will be performed. One three-hour laboratory per week.
Prerequisite or Corequisite: BIOL 506.

BIOL 510 - Invertebrate Zoology (4 Credits)
Phylogenetic and comparative aspects of anatomy, physiology, reproduction, and embryology of the invertebrates.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: MSCI 510
Graduation with Leadership Distinction: GLD: Research
BIOL 523 - Plant Development (3 Credits)
Descriptive and molecular examination of the processes and mechanisms used by plants in organogenesis, differentiation, and morphogenesis. Three lecture hours per week.
Prerequisites: BIOL 302 and BIOL 303.

BIOL 523L - Plant Developmental Laboratory (1 Credit)
Experiments utilizing a genetic approach to the study of plant development. Three laboratory hours per week.
Corequisite: BIOL 523.

BIOL 524 - Mycology (4 Credits)
Taxonomy and morphology of fungi; cultivation, life histories, and economic importance; all classes and major orders considered. Three lecture hours per week.
Prerequisites: BIOL 301.

BIOL 525 - Marine Plants (4 Credits)
Diversity, distribution, physiology, ecology, evolution, and economic importance of marine algal, seagrass, and mangrove communities. Three lecture and three laboratory hours per week. Scheduled field trips are required.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: MSCI 525

BIOL 526 - The Fall Flora (4 Credits)
Two lecture and four laboratory hours per week.
Prerequisites: BIOL 301.

BIOL 527 - The Spring Flora (4 Credits)
Two lecture and four laboratory hours per week.
Prerequisites: BIOL 301.

BIOL 528 - The Summer Flora (4 Credits)
Two lecture and four laboratory hours per week.
Prerequisites: BIOL 301.

BIOL 530 - Histology (4 Credits)
An introduction to the tissues that make up the human body. The microscopic anatomy of tissues is examined and discussed in terms of function and physiology. Three lecture hours and four laboratory hours per week.

BIOL 531 - Parasitology (4 Credits)
Parasites of biological, economic, and public health importance. Three lecture and three laboratory hours per week.
Prerequisites: 300 level Biology course or equivalent.

Cross-listed course: ENHS 661, EPID 661

BIOL 534 - Animal Behavior (3 Credits)
A comparative survey of behavior patterns of animals from protists to humans and the physiological mechanisms underlying behavior.
Prerequisites: BIOL 301 or MSCI 311.

BIOL 534L - Animal Behavior Laboratory (1 Credit)
Observational and experimental methods used in classifying animal behavior patterns and in determining underlying control mechanisms. One three-hour laboratory per week.
Prerequisite or Corequisite: BIOL 534.

BIOL 535 - Fishery Management (3 Credits)
Management and conservation of aquatic and marine resources, with emphasis on fisheries. Data procurement and analysis; commercial and recreational fisheries; sociological, political, legal, and environmental factors that affect fishery management; and fish biodiversity.
Prerequisites: BIOL 301.

Cross-listed course: MSCI 535

BIOL 536 - Ichthyology (4 Credits)
Phylogeny, morphology, behavior, and ecology of fishes. Three lecture and three laboratory hours plus three field trips to be arranged.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: MSCI 536

Graduation with Leadership Distinction: GLD: Research

BIOL 537 - Aquaculture (3 Credits)
Introduction to the practical and scientific aspects of the commercial culture of freshwater and marine organisms. Three lecture hours per week. One all-day field trip required.
Prerequisites: BIOL 301 or MSCI 311.

BIOL 538 - Behavior of Marine Organisms (4 Credits)
The identification of behavioral adaptations of estuarine and marine organisms: their ecology, physiology, development, and evolutionary history; field observations.
Prerequisites: BIOL 101 and BIOL 102 or MSCI 311.

Cross-listed course: MSCI 538

Graduation with Leadership Distinction: GLD: Research

BIOL 541 - Biochemistry (3 Credits)
Description of biological macromolecules and major metabolic pathways.
Prerequisites: C or higher in CHEM 334.

Cross-listed course: CHEM 550

BIOL 541L - Biochemistry Laboratory (1 Credit)
Experiments and demonstrations illustrating the principles of biochemistry. Three laboratory hours per week.
Prerequisite or Corequisite: C or higher in CHEM 550 or BIOL 541 or CHEM 555 or BIOL 545.

Cross-listed course: CHEM 550L

BIOL 543 - Comparative Physiology (3 Credits)
An integrative and comparative study of the structure, function, and evolution of the physiological systems of animals. Three lecture hours per week.
Prerequisites: BIOL 302 or MSCI 311.

BIOL 543L - Comparative Physiology Laboratory (1 Credit)
Laboratory exercises to illustrate principles from BIOL 543. Three hours per week.
Corequisite: BIOL 543.

BIOL 545 - Biochemistry/Molecular Biology I (3 Credits)
Essentials of modern biochemistry. First semester of a two-semester course. Three lecture hours per week.
Prerequisites: C or higher in CHEM 334.

Cross-listed course: CHEM 555
Biology 546 - Biochemistry/Molecular Biology II (3 Credits)
Essentials of modern biochemistry and molecular biology. Three lecture hours per week.
Prerequisites: C or higher in BIOL 302.

Cross-listed course: CHEM 556

Biology 549 - Plant Physiology (4 Credits)
A general survey of the major physiological processes in plants. Two lecture and four laboratory hours per week.
Prerequisites: BIOL 302 and BIOL 425.

Biology 550 - Bacteriology (3 Credits)
Introduction to bacteria and viruses emphasizing ultrastructure, physiology, genetics, and growth. Discussion of public health, industrial, and environmental microbiology. Three lecture hours per week.
Prerequisites: BIOL 302 or MSCI 311.

Corequisite: BIOL 550L.

Graduation with Leadership Distinction: GLD: Research

Biology 550L - Bacteriology Laboratory (1 Credit)
Three laboratory hours per week.
Corequisite: BIOL 550.

Biology 552 - Population Genetics (3 Credits)
An introduction to the principles of population genetics, with emphasis on the origin, maintenance, and significance of genetic variation in natural populations.
Prerequisites: BIOL 301, MSCI 302, and BIOL 303.

Cross-listed course: MSCI 552

Graduation with Leadership Distinction: GLD: Research

Biology 553 - Genomics (3 Credits)
Current concepts and applications of genomics, addressing questions from throughout biological inquiry.
Prerequisites: BIOL 301, BIOL 303.

Biology 558 - Stem Cells and The Physiological Environment (3 Credits)
Discussion of how physiological factors, like nutritional status, influence systemic signals to alter stem cell activity, and the physiological stimuli that impact stem cell activity in a variety of organisms (from worms to humans).
Prerequisites: C of higher in BIOL 302.

Biology 570 - Principles of Ecology (3 Credits)
Interactions of organisms and the environment; ecosystem structure and functions. Three lecture hours per week.
Prerequisites: BIOL 301 or MSCI 311.

Biology 570L - Principles of Ecology Laboratory (1 Credit)
Three hours per week.
Prerequisite or Corequisite: BIOL 570.

Biology 571 - Conservation Biology (3 Credits)
Principles of conservation biology. Importance of biodiversity, causes of decline and extinction, and restoration and conversation policy in terrestrial and aquatic ecosystems.
Prerequisites: BIOL 301.

Cross-listed course: ENVR 571

Biology 572 - Freshwater Ecology (3 Credits)
Quantitative study of the population, community and evolutionary ecology of freshwater habitats (lakes, ponds, rivers, streams, wetlands). Includes mandatory field trips.
Prerequisites: BIOL 301.

Cross-listed course: ENVR 572

Biology 574 - Marine Conservation Biology (3 Credits)
Exploration of how human activities affect marine natural populations, species, communities and ecosystems, including threats to biodiversity; approaches to marine conservation; and ecological and evolutionary responses to anthropogenic disturbance.
Prerequisites: BIOL 301.

Cross-listed course: MSCI 574

Biology 575 - Marine Ecology (3 Credits)
Structure, dynamics, and interactions between populations and communities in marine ecosystems. Attendance at designated departmental seminars is required. Three lecture hours per week.
Prerequisites: CHEM 111 and BIOL 301 or MSCI 311.

Cross-listed course: MSCI 575

Biology 575L - Marine Ecology Laboratory (1 Credit)
Laboratory and field exercises in coastal environments.
Prerequisite or Corequisite: BIOL 575.

Cross-listed course: MSCI 575L

Biology 576 - Marine Fisheries Ecology (3 Credits)
Interdisciplinary examination of the distribution, reproduction, survival, and historical variation of the principal commercial marine fisheries.
Prerequisites: BIOL 301.

Cross-listed course: MSCI 576

Biology 577 - Ecology of Coral Reefs (4 Credits)
Structure, productivity, and biodiversity of coral reefs, emphasizing their sensitivity, stability, and sustainability. Taught as an extended field experience with daily lectures and guided research activities.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: MSCI 577

Biology 588 - Genomic Data Science (3 Credits)
This course focuses on quantitative knowledge for interdisciplinary applications in genetics as well as hands-on experience in analyzing genetic data. In this course, students will have programming exercises in using analysis tools to conduct genome-wide analysis, annotation, and interpretation of genetic data using R/Bioconductor packages.
Prerequisites: C or better in STAT 201 or higher.

Cross-listed course: STAT 588

Biology 599 - Topics in Biology (1-3 Credits)
Current developments in biological sciences. Readings and research on selected topics. Course content varies and will be announced in the schedule of classes by title.

Biology 610 - Hallmarks of Cancer (3 Credits)
Survey of current concepts regarding the molecular and genetic factors that regulate the origin and progression of cancer. Readings based on current primary literature.
Prerequisites: BIOL 302 and BIOL 303.
**Prerequisites:**
- BIOL 612 - Virology - Classical and Emerging Concepts (3 Credits)
  Advanced study of viruses with regard to biochemical, molecular, pathological, epidemiological, and biotechnological aspects. Focus on animal viruses with particular emphasis on human pathogens.
  **Prerequisites:** BIOL 302.

- BIOL 614 - Stem Cell Biology (3 Credits)
  Focuses on the understanding of how stem cells can be used to make fundamental biological discoveries with a special focus in neuroscience.
  **Prerequisites:** C or better in BIOL 302.

- BIOL 620 - Immunobiology (3 Credits)
  Basic immunological concepts including antibody structure, function, and genetics; cellular immunology; transplantation; hypersensitivity; autoimmunity; and immunity to infectious diseases.
  **Prerequisites:** BIOL 302.

- BIOL 625 - Medical Mycology (3 Credits)
  Advanced study of infectious diseases caused by fungi. Etiology, symptoms, and treatment of fungi related illnesses.
  **Cross-listed course:** ENHS 625

- BIOL 627 - Marine Phytoplankton (3 Credits)
  Examines the physiology and ecology of phytoplankton, including environmental controls on community composition, primary productivity, and detection and characterization of water quality (eutrophication) and harmful algal blooms.
  **Prerequisites:** MSCI 102 or MSCI 450 or BIOL 450.
  **Cross-listed course:** MSCI 627

- BIOL 630 - Biology of Birds (3 Credits)
  Biology of birds at molecular, organismal, and population levels, emphasizing unique adaptations of the class of Aves.
  **Prerequisites:** BIOL 301, BIOL 302, and BIOL 303.

- BIOL 634 - Biology of Neurological Diseases (3 Credits)
  Advances in molecular and cellular neurobiology that bring new understanding for human neurological disease.
  **Prerequisites:** BIOL 302 and SCHC 330 or BIOL 405.

- BIOL 635 - Neurophysiology (4 Credits)
  Descriptive and experimental aspects of the neural basis of behavior, emphasizing cellular and molecular mechanisms. Two lecture and six laboratory hours per week. Three lecture hours per week.
  **Prerequisites:** BIOL 302.

- BIOL 640 - Microbial Ecology (3 Credits)
  Interactions of microorganisms with each other, with more complex organisms, and with their environments. Three lecture hours per week.
  **Prerequisites:** BIOL 550 and either BIOL 301 or MSCI 311.

- BIOL 641 - Biophysical Ecology (3 Credits)
  This course examines how the mechanisms by which animals and plants interact with their physical environments influence organismal physiology.
  **Prerequisites:** BIOL 301, MATH 141 or MATH 122.

- BIOL 650 - Biochemical Evolution (3 Credits)
  Advanced study of related aspects of biological evolution. Rose of life from physical and chemical precursors, biochemical basis of adaptation to ecological pressures, and biochemical aspects of the origins and maintenance of biodiversity.
  **Prerequisites:** BIOL 301, BIOL 302, BIOL 303.

- BIOL 651 - Limnology (4 Credits)
  A study of the aquatic environment and its biota. Three lecture and four laboratory hours per week.
  **Prerequisites:** BIOL 301.

- BIOL 652 - Evolutionary Biology (3 Credits)
  An advanced course in evolutionary biology, including natural selection, neutral evolution, molecular evolution population genetics, quantitative genetics, sexual selection, speciation, human evolution, and the evolution of disease.
  **Prerequisites:** BIOL 301 and BIOL 303.

- BIOL 653 - Bioinformatics (3 Credits)
  Studies of the principles of genetics and molecular biology as applied to adaptive evolution of genes and genomes.
  **Prerequisites:** BIOL 302, BIOL 303.

- BIOL 654 - Speciation (3 Credits)
  Speciation as the source of biological diversity. Historical and biological viewpoints. Analysis of concepts of species and models of speciation. Two lectures and one recitation per week.
  **Prerequisites:** BIOL 301 or BIOL 652.

- BIOL 655 - Biotechnology (3 Credits)
  Studies in molecular biology and genetics with emphasis on the use of newly developed techniques in biotechnology. Three lecture hours per week.
  **Prerequisites:** BIOL 302 and BIOL 303.

- BIOL 656 - Experimental Biotechnology (4 Credits)
  Techniques used in biotechnology will be employed in the context of an experimental project. Twelve laboratory hours per week.
  **Prerequisites:** BIOL 302, BIOL 302L.

- BIOL 660 - Biology of Mammals (4 Credits)
  Evolution, systematics, genetics, ecology, and adaptation of mammals. Emphasis on native South Carolina species. Two lectures and one two-hour laboratory per week, plus five field trips to be arranged.
  **Prerequisites:** BIOL 301 or MSCI 311.

- BIOL 662 - Signal Transduction and Pathogenesis (3 Credits)
  Signaling pathways involved in human diseases, such as cancer, AIDS, autoimmune diseases and diabetes, and cellular processes involving apoptosis, cell cycle, cell-cell adhesion, growth factors, hormones, G protein-couples receptors, cytokines and immune response.
  **Prerequisites:** BIOL 302 and BIOL 303.

- BIOL 665 - Human Molecular Genetics (3 Credits)
  Molecular mechanisms underlying gene action and differentiation in man; the genetic bases for human variability and inborn metabolic errors leading to inherited diseases.
  **Prerequisites:** BIOL 302 and BIOL 303.

- BIOL 667 - Molecular and Genetic Mechanisms of Disease Pathogenesis (3 Credits)
  An advanced examination of the molecular mechanisms underlying gene action in humans. Current literature illustrating the genotype-phenotype relationship in human disease pathogenesis will be discussed.
  **Prerequisites:** BIOL 302 and BIOL 303.
BIOL 668 - Metabolic Biochemistry of Human Disease (3 Credits)
Core concepts of biochemistry as applied to human health and disease.
Prerequisites: C or higher in CHEM 555/BIOL 545 or CHEM 550/BIOL 541.

Cross-listed course: CHEM 655

BIOL 670 - Plant Ecology (3 Credits)
Structure and dynamics of plant populations and communities, including life histories, adaptations, and plant interactions. Three lecture hours per week.
Prerequisites: BIOL 301.

BIOL 670L - Plant Ecology (1 Credit)
Laboratory and field exercises in plant ecology. Four hours per week.
Prerequisite or Corequisite: BIOL 670.

BIOL 671 - Plant Responses to the Environment (3 Credits)
Physiological, molecular, and genetic examination of induced plant responses to various biotic and abiotic environmental stresses.
Prerequisites: BIOL 302.

BIOL 690 - Ultramicroscopy (3 Credits)
Theoretical and practical aspects of scanning and transmission electron microscopy, digital image acquisition and energy dispersive x-ray spectroscopy. Two lecture and one laboratory hour per week, plus a research project to be arranged.
Prerequisites: BIOL 302 or MSCI 311.

Biological Sciences, B.S.

Learning Outcomes
- Students will demonstrate a solid base of knowledge in Biology. Subjects such as cell and molecular biology, genetics, ecology and evolution, plant biology, and physiology are all crucial subject areas that will be mastered.
- Students will analyze qualitative and quantitative data, assess validity of work and identify gaps in knowledge, and evaluate the results of analyses and experiments and decide on next steps.
- Students will identify assumptions, create and evaluate hypotheses, and design relevant experiments.
- Students will be trained to locate sources of information and to evaluate the quality of the information needed to make decisions. Students will be trained to critically read and discuss primary literature and evaluate its validity (on an appropriate level).
- Students will demonstrate the ability to learn independently and then share that knowledge with others as well as to work collaboratively.

Progression Requirement
Biological sciences majors may enroll in a biological sciences major course a maximum of twice to earn the required grade of C or higher. For the purposes of this standard of progression, withdrawal with a W does not constitute enrollment.

Transfer Requirement
Any student applying for transfer to the biological sciences major from other programs within the University, or from other accredited colleges and universities, is required to have a minimum overall grade point average of 2.50 on a 4.00 scale.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)
Program of Study

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1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
Must be passed with a grade of C or higher.
- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)
- MATH 122 or MATH 141
- MATH 142 or MATH 170 or MATH 172

Note: MATH 141 & MATH 142 are recommended. However, successful completion of MATH 122 and MATH 170, or MATH 172 may be substituted.

SCI – Scientific Literacy (8 hours)
- BIOL 101
- BIOL 102
GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible
Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)
- STAT 205
- CSCE 102

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core

GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

  OR

- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)
- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
  - Three hours of Social Science
  - Three hours of Fine Arts or Humanities

3. Program Requirements (30-45 hours)

Supporting Courses (8-16 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111L</td>
<td>General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112L</td>
<td>General Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 331L</td>
<td>Essentials of Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Essentials of Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credit Hours 16

Note: PHYS 201 and PHYS 202 are recommended in addition to the above required courses. CHEM 333, CHEM 331L, CHEM 334, and CHEM 332L may be used to fulfill 8 hours of the cognate. However, additional elective hours may be required to reach minimum hours to graduate.

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of
study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

**Minor**

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

Minors are available in participating departments of the College of Arts and Sciences and in other colleges. For descriptions of specific minors, students should see the appropriate sections of the bulletin.

A list of minor programs of study can be found at Programs A-Z (p. 10).

**Electives (0-25 hours)**

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

**4. Major Requirements (28 hours)**

*A minimum grade of C is required in all major courses.*

**Major Courses (9 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 301</td>
<td>Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 303</td>
<td>Fundamental Genetics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Major Electives (19 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 425</td>
<td>Plant Form and Function (optional lab available)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 460</td>
<td>Advanced Human Physiology (optional lab available)</td>
<td></td>
</tr>
<tr>
<td>BIOL 465</td>
<td>Domestic Animal Nutrition</td>
<td></td>
</tr>
<tr>
<td>Select one <strong>Physiology</strong> course from the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BIOL 543</td>
<td>Comparative Physiology (optional lab available)</td>
<td></td>
</tr>
<tr>
<td>BIOL 549</td>
<td>Plant Physiology</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>

1 BIOL 425 and BIOL 549 may only be used for either the Physiology or Plant credit, not both.

Note: At least three courses applied toward the major must have an associated laboratory. No more than three credits of 398/399 may be applied toward the major. Two of 301, 301, or 303 must be completed to advance to 400-600 level courses. **At least two courses must be at the 500-level or above.**

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Biological Sciences, B.S. (https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_biology-science_map.pdf)

**Biology Minor**

**Minor Requirements**

**Prerequisites (8 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>Biological Principles I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101L</td>
<td>Biological Principles I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 102</td>
<td>Biological Principles II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 102L</td>
<td>Biological Principles II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

**Required Biology Courses (9 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 301</td>
<td>Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Cell and Molecular Biology</td>
<td>3</td>
</tr>
</tbody>
</table>
Biology Electives (8 Hours)

- Eight additional credits selected from 400 through 600 levels. At least two (2) courses must have accompanying laboratories.

Required Chemistry Courses (11 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111L</td>
<td>General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112L</td>
<td>General Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 11

Neuroscience Minor

The minor is designed for students going into graduate studies in neuroscience, animal behavior, psychology or medicine and for students simply interested in gaining a better understanding of their own interactions with the world. The minor will provide opportunities to develop a strong background of how the nervous system works from the social and behavioral to the cellular and molecular levels. Beyond core requirements, students may focus on topics of specific interest in the very broad field of neuroscience. Research experience in neuroscience is required.

Application

Students must complete an application and qualify for the neuroscience minor. Applications can be submitted any time after their first year of college (30 credit hours must be completed in residency at the University of South Carolina, Columbia Campus). Normally, students will be expected to have at least a 3.0 UofSC system grade point average. Applications will be evaluated by the co-directors of the Neuroscience Minor and they will be judged on overall academic merit. Application forms can be obtained from the Departments of Psychology and Biological Sciences and from the neuroscience minor web page.

Degree Requirements (18 Hours)

Eighteen credit hours are required to satisfy the minor. Students must complete the required three credit Introduction to Neuroscience course and 2-3 credit hours of neuroscience research experience under an independent study number. Additional honors courses or other specialized courses in the neurosciences may also satisfy the minor requirements provided the course substitutions are approved by the co-directors of the neuroscience minor. No more than a total of six credits of independent study credits may count towards the minor.
The Department of Chemistry and Biochemistry offers three undergraduate degrees. A general major leads to the Bachelor of Science with a major in chemistry; the intensive major, suggested for those intending to enter the chemical profession, leads to the degree of Bachelor of Science in Chemistry. The department also offers a Bachelor of Science degree with a major in biochemistry and molecular biology. For all majors a minimum grade of C in any chemistry or biology course is required. The Department of Chemistry and Biochemistry has been approved by the American Chemical Society’s (ACS) Committee on Professional Training, and the curriculum for the Bachelor of Science in Chemistry meets ACS requirements.

Retention, Progression, and Transfer Standards

1. Chemistry majors may enroll in a chemistry course a maximum of twice to earn the required grade of C or higher. Biochemistry and molecular biology majors may enroll in a biology or chemistry course a maximum of twice to earn the required grade of C or higher.

2. A chemistry major must receive a grade of C or higher in any chemistry course in order for it to be used to satisfy a major requirement. A biochemistry and molecular biology major must receive a grade of C or higher in any chemistry or biology course in order for it to be used to satisfy a major requirement.

3. Any student applying for transfer to the chemistry major from other programs within the University, or from other accredited colleges and universities, is required to have a minimum overall grade point average of 2.50 on a 4.00 scale.

4. To be admitted to the biochemistry and molecular biology major, a student must have earned at least 30 semester hours with a minimum 3.25 grade point average on a 4.00 scale. The 30 semester hours must include CHEM 111, CHEM 112, BIOL 101, BIOL 102, and MATH 141, each passed with a grade of C or higher.

Note: All four standards apply for the Biochemistry and Molecular Biology, B.S. degree. The first three standards apply for the Chemistry, B.S. and the Chemistry, B.S. Chem degrees.

Courses

CHEM 101 - Fundamental Chemistry I (4 Credits)
A science elective surveying inorganic and solution chemistry. First of a terminal two-semester sequence. Three lecture, one recitation, and two laboratory hours per week.
	Carolina Core: SCI

CHEM 102 - Fundamental Chemistry II (4 Credits)
An introductory survey of organic and biochemistry. Three lecture, one recitation, and two laboratory hours per week.
Prerequisites: 1 year high-school chemistry, CHEM 101, CHEM 111, or equivalent.

Carolina Core: SCI

CHEM 105 - Chemistry and Modern Society I (4 Credits)
A conceptual and qualitative approach to chemistry, its evolution, achievements, and goals and its impact on technology, the environment, and modern life and thought. (Specifically designed for non-science majors.) Three lecture and three laboratory hours per week.
Carolina Core: SCI

CHEM 106 - Chemistry and Modern Society II (3 Credits)
A continuation of Chemistry 105. Three lecture hours per week.
Prerequisites: C or higher in CHEM 105.

CHEM 106L - Chemistry and Modern Society II Laboratory (1 Credit)
Laboratory associated with CHEM 106. Three hours of laboratory per week.
Prerequisites: CHEM 105.

Corequisite: CHEM 106.

CHEM 107 - Forensic Chemistry (4 Credits)
Surveys chemical aspects of criminal investigation and adjudication including drug, arson, DNA, paint, and fiber identification. Three lecture and three laboratory hours per week.
Carolina Core: SCI

CHEM 111 - General Chemistry I (3 Credits)
Survey of the principles that underlie all chemistry with applications illustrating these principles. Three lecture and one recitation hours per week.
Prerequisites: C or higher in MATH 111, MATH 115, MATH 122, MATH 141 or higher math (or by placement score into MATH 122, MATH 141 or higher math).

Corequisite: CHEM 111L (unless grade of C or higher in CHEM 111L earned previously).

Carolina Core: SCI

CHEM 111L - General Chemistry I Lab (1 Credit)
Introduction to the principles and techniques of experimental chemistry with emphasis on formula investigations, equations, elementary statistics, and chemical reactivity.
Prerequisites: MATH 111 or MATH 115 or higher.

Prerequisite or Corequisite: CHEM 111.

Carolina Core: SCI
CHEM 112 - General Chemistry II (3 Credits)
Continuation of CHEM 111. Special emphasis on chemical equilibrium. Three lecture and one recitation hours per week.
Prerequisites: C or higher in CHEM 111 and C or higher in MATH 111, MATH 115, MATH 122, MATH 141 or higher math.
Corequisite: CHEM 112L.

CHEM 112L - General Chemistry II Lab (1 Credit)
Continuation of CHEM 111L with emphasis on solution properties, kinetics, equilibrium, acids and bases, and qualitative analysis.
Prerequisites: C or higher in CHEM 111 and CHEM 111L or CHEM 141.

Prerequisite or Corequisite: CHEM 112.

CHEM 118 - Computational Chemistry I (1 Credit)
Introduction to the use of computers in solving chemical problems. One discussion and two laboratory hours per week.
Corequisite: CHEM 112 and CHEM 112L or CHEM 142 (unless a grade of C or higher earned previously).

CHEM 141 - Principles of Chemistry I (4 Credits)
Advanced general chemistry I. Atoms and chemical bonds. Three lecture hours, one recitation hour, and three laboratory hours per week. Credit cannot be received for both CHEM 111 and CHEM 141.
Prerequisites: high-school chemistry; C or higher in MATH 141 or higher math (or by placement score into MATH 142 or higher math).

Carolina Core: SCI

CHEM 142 - Principles of Chemistry II (4 Credits)
Advanced general chemistry II. Chemical kinetics, equilibria, and thermodynamics. Three lecture hours, one recitation hour, and three laboratory hours per week. Credit cannot be received for both CHEM 112 and CHEM 142.
Prerequisites: C or higher in CHEM 141.

CHEM 318 - Computational Chemistry II (1 Credit)
A continuation of CHEM 118, with applications to more advanced chemical problems. One discussion and two laboratory hours per week.
Prerequisites: C or higher in CSCE 145 or CSCE 206 and in CHEM 118.

CHEM 321 - Quantitative Analysis (3 Credits)
Gravimetric, volumetric, and introductory instrumental analysis. Three lecture and one recitation hours per week.
Prerequisites: C or higher in CHEM 112 and CHEM 112L or in CHEM 142.
Corequisite: CHEM 321L.

CHEM 321L - Quantitative Analysis Laboratory (1 Credit)
Three laboratory hours per week. Credit cannot be received for both CHEM 321L and CHEM 322L.
Corequisite: CHEM 321.

CHEM 322 - Analytical Chemistry (3 Credits)
Qualitative analysis, quantitative analysis, fundamental or method analysis, and molecular characterization.
Prerequisites: C or higher in CHEM 112 and CHEM 112L (or in CHEM 142) and in MATH 141 or higher MATH.
Corequisite: CHEM 322L.

CHEM 322L - Analytical Chemistry Laboratory (1 Credit)
Laboratory skill building in analytical techniques. Applications of stoichiometry, spectroscopy, phase transfer, electrochemistry and kinetics. Credit cannot be received for both CHEM 321L and CHEM 322L.
Prerequisites: C or better in CHEM 112 and CHEM 112L or CHEM 142.

Corequisite: CHEM 322.

CHEM 331L - Essentials of Organic Chemistry Laboratory I (1 Credit)
Laboratory safety, synthesis, separation, and purification of carbon compounds. For non-majors.
Corequisite: CHEM 333 (unless grade of C or higher in CHEM 333 earned previously).

CHEM 332L - Essentials of Organic Chemistry Laboratory II (1 Credit)
Continuation of CHEM 331L. Spectroscopic identification of carbon compounds. For non-majors. Three lab hours per week.
Prerequisites: C or higher in CHEM 331L.

Corequisite: CHEM 334 (unless grade of C or higher in CHEM 334 earned previously).

CHEM 333 - Organic Chemistry I (3 Credits)
Contemporary theories, nomenclature, reactions, mechanisms, and syntheses of carbon compounds. Three lecture and one recitation hours per week.
Prerequisites: C or higher in CHEM 112 or in CHEM 142.

CHEM 333L - Comprehensive Organic Chemistry Laboratory I (2 Credits)
Laboratory safety, synthesis, separation, and purification of carbon compounds. Required for chemistry majors. Six laboratory hours per week.
Corequisite: CHEM 333 (unless grade of C or higher in CHEM 333 earned previously).

CHEM 334 - Organic Chemistry II (3 Credits)
Continuation of CHEM 333. Three lecture and one recitation hours per week.
Prerequisites: C or higher in CHEM 333.

CHEM 334L - Comprehensive Organic Chemistry Laboratory II (2 Credits)
Continuation of CHEM 333L. Spectroscopic identification of carbon compounds. Required for chemistry majors. Six laboratory hours per week.
Prerequisites: C or higher in CHEM 333L.

Corequisite: CHEM 334 (unless grade of C or higher in CHEM 334 earned previously).

CHEM 340 - Elementary Biophysical Chemistry (3 Credits)
A non-calculus approach to the study of the principles of physical chemistry emphasizing their application to significant biochemical and biological systems. Chemical thermodynamics, kinetics, equilibrium, solution chemistry, the structure of macromolecules, and acid-base properties of biomolecules. Credit for a degree will not be given for both CHEM 340 and CHEM 541.
Prerequisites: C or higher in CHEM 112 and CHEM 112L or in CHEM 142.

CHEM 360 - Undergraduate Seminar (1 Credit)
Student seminars and a survey of biochemical and molecular biology research at the University of South Carolina. Required of all biochemistry majors.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 399</td>
<td>Independent Study</td>
<td>1-3 Credits</td>
<td>Contract Required.</td>
</tr>
<tr>
<td></td>
<td>Graduation with Leadership Distinction: GLD: Research</td>
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<td></td>
</tr>
<tr>
<td>CHEM 401</td>
<td>Industrial Chemistry Capstone Experience</td>
<td>3 Credits</td>
<td>Prepares students for future roles in chemical industry or graduate school and provides career-enhancing interpersonal skills, including team-building, public speaking, resume preparation, and interviewing.</td>
</tr>
<tr>
<td>CHEM 469</td>
<td>Undergraduate Research</td>
<td>3 Credits</td>
<td>Introduction to the methods of chemical research. A written report on work accomplished is required at the end of each semester. Nine hours of library and laboratory per week. Contract Required.</td>
</tr>
<tr>
<td>CHEM 497</td>
<td>Undergraduate Research</td>
<td>3 Credits</td>
<td>Introduction to the methods of chemical research. A written report on work accomplished is required at the end of each semester. Nine hours of library and laboratory per week. Contract Required.</td>
</tr>
<tr>
<td>CHEM 498</td>
<td>Undergraduate Research</td>
<td>3 Credits</td>
<td>Introduction to the methods of chemical research. A written report on work accomplished is required at the end of each semester. Nine hours of library and laboratory per week. Contract Required.</td>
</tr>
<tr>
<td>CHEM 499</td>
<td>Undergraduate Research</td>
<td>3 Credits</td>
<td>Introduction to the methods of chemical research. A written report on work accomplished is required at the end of each semester. Nine hours of library and laboratory per week. Contract Required.</td>
</tr>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry</td>
<td>3 Credits</td>
<td>Consideration of atomic structure, valence, complex compounds, and systematic study of the periodic table.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 334, PHYS 212, and MATH 241.</td>
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<td></td>
</tr>
<tr>
<td>CHEM 533</td>
<td>Comprehensive Organic Chemistry III</td>
<td>3 Credits</td>
<td>Selected organic reactions from synthetic and mechanistic viewpoints. For Undergraduate Credit Only.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 334.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 541</td>
<td>Physical Chemistry</td>
<td>3 Credits</td>
<td>Chemical thermodynamics and kinetics. For Undergraduate Credit Only.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 112 (or CHEM 142) and in MATH 241 or higher MATH.</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Corequisite: PHYS 212; unless a grade of C or higher in PHYS 212 earned previously.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 541L</td>
<td>Physical Chemistry Laboratory</td>
<td>2 Credits</td>
<td>Applications of physical chemical techniques. Five laboratory hours and one recitation hour per week.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 321L or in CHEM 322L or in CHEM 142.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Corequisite: CHEM 541 (unless grade of C or higher in CHEM 541 earned previously).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 542</td>
<td>Physical Chemistry</td>
<td>3 Credits</td>
<td>Spectroscopy, statistical mechanics, and chemical applications of quantum mechanics.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 112 or in CHEM 142, MATH 241 and PHYS 212.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 542L</td>
<td>Physical Chemistry Laboratory</td>
<td>2 Credits</td>
<td>Applications of physical chemical techniques. Five laboratory hours and one recitation hour per week.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 321 or in CHEM 322.</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Corequisite: CHEM 542 (unless grade of C or higher in CHEM 542 earned previously).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Physical Biochemistry</td>
<td>3 Credits</td>
<td>A survey of physical methods essential for studies of biomacromolecules. Three lecture hours per week.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 541 and in CHEM 550 or CHEM 555.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 550</td>
<td>Biochemistry</td>
<td>3 Credits</td>
<td>Description of biological macromolecules and major metabolic pathways. Three lecture hours per week.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 334.</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Cross-listed course: BIOL 541</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 550L</td>
<td>Biochemistry Laboratory</td>
<td>1 Credit</td>
<td>Experiments and demonstrations illustrating the principles of biochemistry. Three laboratory hours per week.</td>
</tr>
<tr>
<td></td>
<td>Prerequisite or Corequisite: C or higher in CHEM 550 or BIOL 541 or CHEM 555 or BIOL 545.</td>
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<tr>
<td></td>
<td>Cross-listed course: BIOL 541L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 555</td>
<td>Biochemistry/Molecular Biology I</td>
<td>3 Credits</td>
<td>Essentials of modern biochemistry. First semester of a two-semester course. Three lecture hours per week.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 334.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cross-listed course: BIOL 545</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 556</td>
<td>Biochemistry/Molecular Biology II</td>
<td>3 Credits</td>
<td>Essentials of modern biochemistry and molecular biology. Three lecture hours per week.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in BIOL 302.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cross-listed course: BIOL 546</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 619</td>
<td>Special Topics in Inorganic Chemistry</td>
<td>1-3 Credits</td>
<td>Current developments in inorganic chemistry. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.</td>
</tr>
<tr>
<td>CHEM 621</td>
<td>Instrumental Analysis</td>
<td>3 Credits</td>
<td>Chemical instrumentation including electronics, signal processing, statistical analysis, molecular/atomic spectroscopy, electrochemical methods, chromatography, and mass spectrometry. Three lecture hours per week.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 321 or CHEM 322.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 621L</td>
<td>Instrumental Analysis Lab</td>
<td>1 Credit</td>
<td>Methods, principles and strategies for chemical instrumentation in analysis. Chemical instrumentation laboratory with environmental, forensic, and biotechnology applications. Three laboratory hours per week.</td>
</tr>
<tr>
<td></td>
<td>Corequisite: CHEM 621.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 622</td>
<td>Forensic Analytical Chemistry</td>
<td>3 Credits</td>
<td>Analytical chemical methods in forensic science, including gathering of evidence, toxicology, drug identification, analysis of trace evidence, arson analysis, and DNA/serology.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or higher in CHEM 321, CHEM 321L and in CHEM 334, CHEM 332L or CHEM 334L.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CHEM 623 - Introductory Environmental Chemistry (3 Credits)
Study of the chemical reactions and processes that affect the fate and transport of organic chemicals in the environment. Three lecture hours per week.
**Prerequisites:** C or higher in CHEM 321, in CHEM 333, and in MATH 142.

CHEM 624 - Aquatic Chemistry (3 Credits)
Study of the chemical reactions and processes affecting the distribution of chemical species in natural systems. Three lecture hours per week.
**Prerequisite or Corequisite:** CHEM 321, MATH 142.

Cross-listed course: MSC 624

CHEM 629 - Special Topics in Analytical Chemistry (1-3 Credits)
Current developments in inorganic chemistry. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

CHEM 633 - Introduction to Polymer Synthesis (3 Credits)
Special emphasis on the modern synthesis of polymeric materials. Definitions, characterization, and applications of polymers will be briefly presented.
**Prerequisites:** C or higher in CHEM 334.

CHEM 639 - Special Topics in Organic Chemistry (3 Credits)
Current developments in organic chemistry. Readings and research on selected topics. May be repeated as content varies by title.

CHEM 643 - Computational Chemistry (3 Credits)
This course is designed to familiarize students with theory and use of modern electronic structure codes, as well as to develop critical thinking and problem-solving skills and to improve computer literacy.
**Prerequisites:** C or higher in CHEM 541 or CHEM 542.

CHEM 644 - Materials Chemistry (3 Credits)
Introduction to materials science; structural and electronic description of inorganic-based solids; experimental techniques in materials chemistry; interfacial energetics and optoelectronic processes at metal and semiconductor surfaces.
**Corequisite:** CHEM 542 (unless a grade of C or higher earned previously).

CHEM 649 - Special Topics in Physical Chemistry (1-3 Credits)
Current developments in physical chemistry. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

CHEM 655 - Metabolic Biochemistry of Human Disease (3 Credits)
Core concepts of biochemistry as applied to human health and disease.
**Prerequisites:** C or higher in CHEM 555/BIOL 545 or CHEM 550/BIOL 541.

Cross-listed course: BIOL 668

CHEM 659 - Special Topics in Biochemistry (3 Credits)
Selected topics in the field of biochemistry. May be repeated as content varies by title.
**Prerequisites:** C or higher in CHEM 555/BIOL 545 or CHEM 550/BIOL 541.

Biochemistry and Molecular Biology, B.S.

**Learning Outcomes**
- Students will explain basic and advanced concepts in biology, chemistry, and biochemistry and apply them in problem solving.
- Students will apply computer applications and information retrieval skills to experiments and data analysis. These skills are taught in CHEM 541L and CSCE 102.
- Students will communicate effectively orally and in writing about biochemical concepts, problems, and solutions.

**Admissions**

**Entrance Requirements**
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

**Degree Requirements (128 hours)**

**Program of Study**

**Requirements**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>3-16</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>63</td>
</tr>
</tbody>
</table>

**1. Carolina Core Requirements (34-46 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 Hours)**

*must be passed with a grade of C or higher.*

- any CC-CMW courses (p. 743)

**ARP – Analytical Reasoning and Problem Solving (8 hours)**

*must be passed with a grade of C or higher*

- MATH 141
- MATH 142

**SCI – Scientific Literacy (8 hours)**

*must be passed with a grade of C or higher*
GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course. It is recommended that students complete the foreign language requirement with French, German, Japanese, Russian, or Spanish.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>STAT 201</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or

- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)
- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
  - Three hours of Social Science
  - Three hours of Fine Arts or Humanities

3. Program Requirements (3-16 hours)
Supporting Courses (3 hours)

must be passed with a grade of C or higher

- MATH 241

Cognate (12 hours) optional
The Biochemistry and Molecular Biology Major does not require a Cognate or a Minor. If either is selected, it must meet the College of Arts and Sciences requirements as listed below.

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of...
study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

**Minor (18 hours) optional**

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major.

Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

Minors are available in participating departments of the College of Arts and Sciences and in other colleges. For descriptions of specific minors, students should see the appropriate sections of the bulletin.

A list of minor programs of study can be found at Programs A-Z (p. 10).

**Electives (0–13 hours)**

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

**4. Major Requirements (63 hours)**

*a minimum grade of C is required in all major courses*

**Major Courses (54 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>Biological Principles I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101L</td>
<td>Biological Principles I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 102</td>
<td>Biological Principles II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 102L</td>
<td>Biological Principles II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 302L</td>
<td>Cell and Molecular Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 303</td>
<td>Fundamental Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 550</td>
<td>Bacteriology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 550L</td>
<td>Bacteriology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112L</td>
<td>General Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 332</td>
<td>Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Analytical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 331L</td>
<td>Essentials of Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Essentials of Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 541</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541L</td>
<td>Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Physical Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 555</td>
<td>Biochemistry/Molecular Biology I or BIOL 545</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 556</td>
<td>Biochemistry/Molecular Biology II or BIOL 546</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 550L</td>
<td>Biochemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>or BIOL 541L</td>
<td>Biochemistry Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 54

**Major Electives (9 hours)**

Select one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 425</td>
<td>Plant Form and Function</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 460</td>
<td>Advanced Human Physiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 543</td>
<td>Comparative Physiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 620</td>
<td>Immunobiology</td>
<td></td>
</tr>
</tbody>
</table>

6 hours from 400-600 level electives in Biology or Chemistry 6

Total Credit Hours 9

Note: No more than 3 credits of research (BIOL 399 or CHEM 496 can be used to satisfy the elective requirement.

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.


**Chemistry Minor**

**Minor Requirements**

**Prerequisites (9-10 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Basic College Mathematics</td>
<td>3-4</td>
</tr>
</tbody>
</table>
or MATH 115 Precalculus Mathematics

Total Credit Hours 9-10

Required Courses (12 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Quantitative Analysis Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 331L</td>
<td>Essentials of Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Essentials of Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credit Hours 12

Chemistry Electives (6 Hours)

Course Title Credits
6 additional hours selected from CHEM 300 or above. 6

Total Credit Hours 6

Chemistry, B.S.

Learning Outcomes

• Students will explain basic and advanced chemistry concepts and apply them in problem-solving.
• Students will write effectively about chemistry concepts, principles, and processes.
• Students will apply basic computer programming and information retrieval skills to questions and problems in chemistry.
• Students will explain advanced chemistry topics and apply them in the chemical research process.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>12-19</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>28-47</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*must be passed with a grade of C or higher*

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (8 hours)

• MATH 141
• MATH 142

SCI – Scientific Literacy (8 hours)

*must be passed with a grade of C or higher*

• PHYS 211 & PHYS 211L
• PHYS 212 & PHYS 212L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)
Accordingly, please select one of the following:

- GHS requirement must be fulfilled through this college requirement.
- U.S. History course. Whichever is not fulfilled through the Carolina Core
- The College of Arts and Sciences requires one U.S. History and one non-History (3 hours)
- Students may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (12-19 hours)

Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

Analytical Reasoning (3-7 hours)

- any overlay or stand-alone CC-INF course (p. 743)
- any overlay or stand-alone CC-VSR course (p. 743)

Carolina Core Stand Alone or Overlay Eligible

Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

Social Science and Fine Arts or Humanities (6 hours)
- Courses Acceptable for Social Science and Fine Arts or Humanities
- Credit in Degree Programs in the College of Arts and Sciences (p. 305)
- Three hours of Social Science
- Three hours of Fine Arts or Humanities

3. Program Requirements (28-47 hours)

3.1. Program Requirements (28-47 hours)

Supporting Courses (11 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 141</td>
<td>Principles of Chemistry I &amp; 142</td>
<td>8</td>
</tr>
<tr>
<td>&amp; 142</td>
<td>and Principles of Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I &amp; 111L</td>
<td></td>
</tr>
<tr>
<td>&amp; 112</td>
<td>and General Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>&amp; 112L</td>
<td>and General Chemistry II Lab</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 11

Cognate (12 hours)

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for cognate requirements.

Minor (18 hours) optional

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major.

Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.
The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

Minors are available in participating departments of the College of Arts and Sciences and in other colleges. For descriptions of specific minors, students should see the appropriate sections of the bulletin.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (0-24 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (27 hours)
a minimum grade of C is required in all major courses

Major Courses (24 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 322</td>
<td>Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Analytical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 333L</td>
<td>Comprehensive Organic Chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 334L</td>
<td>Comprehensive Organic Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 541</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541L</td>
<td>Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 542</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 542L</td>
<td>Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Major Electives (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 533</td>
<td>Comprehensive Organic Chemistry III</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Physical Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 550</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 555</td>
<td>Biochemistry/Molecular Biology I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 621</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 623</td>
<td>Introductory Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 624</td>
<td>Aquatic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 633</td>
<td>Introduction to Polymer Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 644</td>
<td>Materials Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Students who transfer into the program after completion of CHEM 331L and CHEM 332L may meet the organic chemistry requirements by completing CHEM 334L.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.


Chemistry, B.S.Chem

Learning Outcomes
- Students will explain basic and advanced chemistry concepts and apply them in problem-solving.
- Students will write effectively about chemistry concepts, principles, and processes.
- Students will apply basic computer programming and information retrieval skills to questions and problems in chemistry.
- Students will explain advanced chemistry topics and apply them in the chemical research process.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-19</td>
</tr>
</tbody>
</table>
3. Program Requirements 26-34
4. Major Requirements 37-38

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
must be passed with a grade of C or higher
• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (8 hours)
• MATH 141
• MATH 142

SCI – Scientific Literacy (8 hours)
must be passed with a grade of C or higher
• PHYS 211 & PHYS 211L
• PHYS 212 & PHYS 212L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (12-19 hours)

Foreign Language (0-3 hours)
• only if needed to meet 122-level proficiency

Analytical Reasoning (3-7 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 145</td>
<td>Algorithmic Design I</td>
<td>4</td>
</tr>
<tr>
<td>or CSCE 206</td>
<td>Scientific Applications Programming</td>
<td></td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 515</td>
<td>Statistical Methods I</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 7

Note: If CHEM 111, CHEM 112, CHEM 322, and CHEM 322L (or CHEM 141, CHEM 142, CHEM 322 and CHEM 322L) are all completed at USC, STAT 509 or STAT 515 is not required. Also, if CHEM 621 and CHEM 621L are completed, STAT 509 or STAT 515 is not required. Students who exempt STAT 509 or STAT 515 through this process will be required to take an approved elective to reach minimum hours for graduation.

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)
• Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
  • Three hours of Social Science
  • Three hours of Fine Arts or Humanities
3. Program Requirements (26-37 hours)

Supporting Courses (14 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>One MATH course beyond MATH 241</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following options:</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>CHEM 141</td>
<td>Principles of Chemistry I and Principles of Chemistry II</td>
<td></td>
</tr>
<tr>
<td>&amp; 142</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>and General Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>&amp; 112</td>
<td>and General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>&amp; 112L</td>
<td>and General Chemistry II Lab</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 14

Cognate (12 hours)

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

Minor (18 hours) optional

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major.

Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

Minors are available in participating departments of the College of Arts and Sciences and in other colleges. For descriptions of specific minors, students should see the appropriate sections of the bulletin.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (0-11 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (37-38 hours)

A minimum grade of C is required in all major courses

Major Courses (37-38 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 322</td>
<td>Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Analytical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 333L</td>
<td>Comprehensive Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 334L</td>
<td>Comprehensive Organic Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541L</td>
<td>Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 542</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 542L</td>
<td>Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 550</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 555</td>
<td>Biochemistry/Molecular Biology I</td>
<td></td>
</tr>
<tr>
<td>CHEM 621</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 621L</td>
<td>Instrumental Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>3 credit of undergraduate research (in an approved area of biochemistry or inorganic chemistry)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 37

If the undergraduate research is not in an approved area of biochemistry or inorganic chemistry, CHEM 550L must be taken.

Note: Students who transfer into the program after completion of CHEM 331L and CHEM 332L, may meet the organic chemistry requirements by completing CHEM 334L.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor
for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.


Criminology and Criminal Justice

Department Website (http://www.cas.sc.edu/crju/)

Brandon K. Applegate, Chair
Patricia Armstrong, Director of Academic Programs

The Department of Criminology and Criminal Justice offers a program of study leading to a Bachelor of Arts degree. This degree program provides students with a strong foundation in the liberal arts and the social sciences. The department fosters a program of study that has a strong research emphasis and encourages public service. Courses offered through the department focus on problem-solving and critical thinking, which provide students with the skills necessary to understand and interpret the scientific literature, access emerging technologies in the field, and understand emerging issues in criminology and criminal justice. For additional information, visit our website (https://sc.edu/study/colleges_schools/artsandsciences/criminology_and_criminal_justice/index.php/).

Degree Offered

The Department of Criminology and Criminal Justice offers a four-year program of study leading to the Bachelor of Arts degree with a major in criminology and criminal justice. The degree requirements are based upon a strong foundation in the liberal arts and the social sciences. An array of professional criminal justice courses is offered to support the particular interests of various students. Students also are encouraged to participate in community service activities. Pursuant to this, the department provides information on opportunities for volunteer work and involvement in the criminal justice field through internships.

Entrance Requirements

The Department of Criminology and Criminal Justice follows the general admission policies of the University. Should there be more applicants for the degree program than the number of spaces available, admission decisions will be competitive and may take into account the applicant's grade point average as well as other factors deemed indicative of the student's potential for success in the program.

Transfer Students

Transfer students from other institutions, other USC campuses, or other degree programs must have a cumulative GPA of 2.25 and a semester GPA of 2.00 in the last semester enrolled. Official transcripts of all academic work must be sent to the admissions office. These transcripts will be evaluated by the Department of Criminology and Criminal Justice for possible transfer credits. Only collegiate courses completed at accredited institutions will be considered, and transfer credit will be approved only where an analysis of the course level and content indicates that the work is appropriate for inclusion in a program of study offered by the department.

Progression Requirements

Admission to the upper division is based upon a minimum 2.00 cumulative UofSC GPA.

Programs

- Criminal Justice Minor (p. 54)
- Criminology and Criminal Justice, B.A. (p. 55)

Courses

CRJU 101 - The American Criminal Justice System (3 Credits)
Survey of crime and societal responses to crime, including law enforcement, courts, corrections, and the juvenile justice system.
Carolina Core: GSS

CRJU 202 - Research Methods in Criminology and Criminal Justice (3 Credits)
Introduction to the practice of social research in criminology and criminal justice settings.
Graduation with Leadership Distinction: GLD: Research

CRJU 203 - Criminal Procedure (3 Credits)
Overview of the constitutional restraints on the investigation, detention, prosecution and adjudication of criminal defendants. Coverage of Supreme Court decisions involving the 4th, 5th, and 6th Amendments to the U.S. Constitution.

CRJU 311 - Policing (3 Credits)
Current and historical perspectives on American policing.

CRJU 312 - Corrections (3 Credits)
Current and historical perspectives on incarceration and its alternatives.

CRJU 313 - Criminal Courts (3 Credits)
Structure and organization of the federal and state criminal court systems and personnel.

CRJU 314 - Criminal Law (3 Credits)
Origin and development of criminal law in America. Basic elements of crimes and defenses.

CRJU 322 - Drugs and Crime (3 Credits)
Overview of criminal justice system responses to illegal substances. Relationship between substance abuse and crime.

CRJU 323 - Violence in America (3 Credits)
Historical overview of violence in American society, including theoretical perspectives on the causes and prevention of violence.

CRJU 341 - Sociology of Crime (3 Credits)
Social factors in the development, identification, and treatment of criminals.
Cross-listed course: SOCY 353
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

CRJU 351 - Juvenile Delinquency (3 Credits)
Social factors in the development, identification, and treatment of delinquents.
Prerequisites: CRJU 101 OR SOCY 101.

CRJU 350 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and Office of Academic Programs is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

CRJU 420 - Analyzing Homicide (3 Credits)
Relationships between patterns and trends in homicide, and theoretical explanations for why offenders engage in homicide.
CRJU 421 - Victimization (3 Credits)
Causes and consequences of criminal victimization and public policy responses to victimization issues.

CRJU 422 - Alternatives to Incarceration (3 Credits)
Correctional alternatives to imprisonment including probation, parole, and various community correctional programs.

CRJU 423 - Street Gangs: Structure, Activity, and Response (3 Credits)
Course covers the theoretical and empirical work on gangs, gang members, and gang activity along with insight on these issues from a practitioner perspective. It then examines the variety of policy responses from government and community organizations.

CRJU 424 - Criminal Justice Intelligence (3 Credits)
An investigation of the motivations to commit crime. The course presents profiles of the targets of crimes and provides strategic and tactical assessments of police investigations and intelligence.

CRJU 425 - Hate Crimes (3 Credits)
An examination of the causes and responses to hate crimes. The course also provide a foundation for understanding crimes motivated by racial, gender, religious, disability, and sexual orientation biases.

CRJU 426 - Criminal Justice and Mental Health (3 Credits)
Interface between the mental health sciences and the criminal justice system.

CRJU 430 - Communities and Crime (3 Credits)
Relationship between criminality and community characteristics, with particular attention to how variation in community structure, organization, and culture impacts crime.

CRJU 440 - Homeland Security and Terrorism (3 Credits)
The nature of terrorism; its history; its methodology; and its application to criminological theory.

CRJU 485 - Selected Topics in Criminal Justice Policy (3 Credits)
Public policy responses to crime, its formation, and its impact on society. Individual topics to be announced by title. May be repeated with consent of advisor.

CRJU 491 - Special Topics (3 Credits)
Topics in criminology and criminal justice. Individual topics to be announced by title. May be repeated once with consent of advisor.

CRJU 494 - Internship (3 Credits)
A supervised experiential course in a criminal justice agency. Contract approved by instructor, advisor, and Office of Academic Programs is required for undergraduate students.

CRJU 501 - Critical Incident Management for Criminal Justice (3 Credits)
Leadership and management strategies for criminal justice agencies during critical incidents and disasters including multi-agency and multi-jurisdictional response.

CRJU 512 - Information-Based Management in Criminal Justice (3 Credits)
The collection and use of information and data-driven analysis in criminal justice organizations.

CRJU 535 - Inmates and Prisons (3 Credits)
Examination of issues affecting prisons and the inmates confined within them. Specific topics of study will include the philosophy and goals of imprisonment, institutional crowding, inmate rights, inmate adaptation, and individual and collective misconduct.

CRJU 551 - Adolescent Mentoring (3 Credits)
Application of skills and theories of adolescent mentoring taught in the classroom to a supervised, structured mentoring field experience.

CRJU 554 - Women and Crime (3 Credits)
Impact of gender-based relations on crime and the criminal justice system.

CRJU 558 - Crime Over the Life Course (3 Credits)
Development of criminal and delinquent behavior over time.

CRJU 563 - Race, Crime, and Criminal Justice (3 Credits)
An historical overview of the intersection between issues of race, crime, and justice. The impact of the criminal justice system on minority groups.

CRJU 565 - Organized Crime (3 Credits)
Origins and modern day activity of organized crime in the United States and internationally will be investigated. Attention is given to problems of criminal activity and the present day transnational character of criminal organizations.

CRJU 575 - The Death Penalty (3 Credits)
Overview of the history and evolution of the death penalty. Identification of key legal developments in death penalty jurisprudence.

CRJU 577 - Law and Criminal Justice Policy (3 Credits)
Legal and policy responses to crime and criminal justice issues.

CRJU 582 - Computer Applications in Criminal Justice (3 Credits)
Computing, database systems, and software applications in research and professional practice.

CRJU 591 - Selected Topics in Criminal Justice (3 Credits)
A seminar for advanced students. Individual topics to be announced by title. May be repeated once with the consent of the advisor.

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**Criminal Justice Minor**

**Minor Requirements (18 Hours)**

**Course**

**Title**

**Credits**

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 101</td>
<td>The American Criminal Justice System</td>
<td>3</td>
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</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 311</td>
<td>Policing</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 312</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 313</td>
<td>Criminal Courts</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 314</td>
<td>Criminal Law  or CRJU 341</td>
<td>Sociology of Crime</td>
</tr>
</tbody>
</table>
Select two additional Criminal Justice courses at the 300-, 400- or 500-level

Total Credit Hours 18

Criminology and Criminal Justice, B.A.

Learning Outcomes

• Students will be able to identify the core components of the American criminal justice system: police, corrections, and courts.
• Students will demonstrate an understanding of the relationships between the components of the criminal justice system.
• Students will demonstrate an understanding of how criminological theories are developed.
• Students will demonstrate an understanding of how criminological theories are used to explain individual and collective deviant behavior.
• Students will demonstrate an understanding of the scientific method.
• Students will demonstrate an understanding of social research design and measurement.
• Students will demonstrate the ability to effectively communicate ideas and issues involving criminology and criminal justice in writing.
• Students will be able to identify the constitutional provisions that govern the treatment of persons suspected of committing a crime.
• Students will demonstrate an understanding of the limits of governmental authority over the criminally accused.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

• Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• CRJU 101

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

• any overlay or stand-alone CC-CMS (p. 743)

INF – Information Literacy (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)

• any overlay or stand-alone CC-VSR course (p. 743)
1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
• only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category or
• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

• Three hours of Social Science
• Nine hours of Fine Arts or Humanities

3. Program Requirements (25-40 hours)
Cognate or Minor (12-18 hours)
Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (7-28 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (33 hours)
A minimum grade of C is required in all major courses.

Major Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 202</td>
<td>Research Methods in Criminology and Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 203</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 341</td>
<td>Sociology of Crime</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Major Electives (24 hours)

Select three of the following: 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 311</td>
<td>Policing</td>
</tr>
<tr>
<td>CRJU 312</td>
<td>Corrections</td>
</tr>
<tr>
<td>CRJU 313</td>
<td>Criminal Courts</td>
</tr>
<tr>
<td>CRJU 314</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>CRJU 351</td>
<td>Juvenile Delinquency</td>
</tr>
</tbody>
</table>

Select three courses from CRJU 300 or above 1

Select two writing-intensive courses from the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 426</td>
<td>Criminal Justice and Mental Health</td>
</tr>
<tr>
<td>CRJU 430</td>
<td>Communities and Crime</td>
</tr>
</tbody>
</table>
Undergraduate

CRJU 554  Women and Crime
CRJU 563  Race, Crime, and Criminal Justice
CRJU 591  Selected Topics in Criminal Justice

Total Credit Hours 24

1 Courses must be approved by the Department of Criminology and Criminal Justice Office of Academic Programs.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Criminology and Criminal Justice, B.A.

Economics (College of Arts and Sciences)

McKinley Blackburn, Chair

The Department of Economics offers majors in both the College of Arts and Sciences and (p. 60) and in the Darla Moore School of Business (p. 60).

Economics majors in the College of Arts and Sciences may earn the B.A. or B.S. degree by completing the 24-hour major requirement along with the college core, distribution requirements, and cultural-awareness and writing-emphasis requirements as described in the basic degree requirements in liberal arts.

Business economics majors in the Moore School of Business may opt for a 12-hour major or a 24-hour intensive major as described in the degree requirements for the Bachelor of Science in Business Administration. This major combines course work in economics with the business course work in management science, accounting, management, marketing, and finance, along with a general education core.

Students are encouraged to talk with an advisor in the economics department to gain further information about the differences between the B.A. and B.S. in economics in the College of Arts and Sciences and the business economics major in the Moore School of Business.

Entrance Requirements

Lower division. Freshmen and transfer students must meet all University and college admission requirements. Students transferring from other institutions or from other majors on the Columbia campus must meet all such requirements, have a GPA of 2.50 or better and have completed either MATH 122 or MATH 141 with a C or better. All students enter the lower division when the economics major is declared.

Progression Requirements

Lower division. Students in the lower division may not enroll in ECON 321/ECON 322 or in courses for which these courses are prerequisite.

Upper division. Progression into the upper division requires the completion of ECON 221 and ECON 222 (or ECON 224) and MATH 122 or MATH 141 with a grade of C or better in each of these courses.

Programs

- Economics, B.A. (p. 60)
- Economics, B.S. (p. 62)

Courses

ECON 123 - The American Economy (3 Credits)
Basic concepts, institutional foundations, structure of the private and public sector; labor markets; major economic problems.

ECON 221 - Principles of Microeconomics (3 Credits)
The study of supply and demand, pricing and cost concepts, firm and consumer decision-making, market structure, and government policies.

ECON 222 - Principles of Macroeconomics (3 Credits)
The study of gross domestic product, business cycles, economic growth, inflation, unemployment, and monetary and fiscal policy.

ECON 223 - Introduction to Economics (3 Credits)
Introduction to economics principles for non-majors. Basics of supply and demand and government and monetary policy are covered in a non-technical manner. Not open to business or economics students. Credit not granted for both ECON 223 and ECON 221 or ECON 222.

ECON 224 - Introduction to Economics (3 Credits)
The study of supply and demand, markets, household and firm decision-making, gross domestic product, inflation, unemployment, and government policies. Open to all students except business administration and economics majors.

ECON 301 - Money and Banking (3 Credits)
The role of money in the market economy. Commercial banks, the Federal Reserve System, and monetary policy. Cannot be used to satisfy major requirements.

Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 303 - The International Economy (3 Credits)
Survey of international economic issues and institutions, including trade and protectionism, global and regional trade agreements, trade balances and exchange rates, Japan, NAFTA, and the European Union.

Prerequisites: ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 311 - Issues in Economics (3 Credits)
The nature and causes of major economic problems facing the nation and its communities, and policy alternatives designed to solve them. The philosophy and methodology of economics in social problem solving.

Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 321 - Intermediate Microeconomic Theory (3 Credits)
Analysis of the economic behavior of households and firms. Production, consumption, price determination, and the degree of competition in markets.

Prerequisites: ECON 221 and ECON 222, or ECON 224, MATH 122 or MATH 141.

ECON 322 - Intermediate Macroeconomic Theory (3 Credits)
Analysis of the national economy as a whole. Money, output, employment, inflation, and international economic linkages.

Prerequisites: ECON 221 and ECON 222, or ECON 224, MATH 122 or MATH 141.
ECON 329 - American Economic History (3 Credits)
Growth and development of the American economy; applications of economic theory to economic history.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 363 - Business Finance (3 Credits)
The procurement and management of wealth by privately owned profit-seeking enterprises.
Prerequisites: ECON 221, ACCT 225, and 3 hours of statistics at the 200-level.

ECON 364 - Financial Institutions (3 Credits)
A study of the functions and operations of financial institutions and their relationships to the commercial banking system and the general economy. Attention is devoted to savings institutions, insurance companies, rural and urban real estate credit, consumer credit, and associated topics.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 379 - Government Policy Toward Business (3 Credits)
An analysis of public policy toward business in the United States. Emphasis is on the desirability of various policies in light of their consequences for the general welfare.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 399 - Independent Study (1-15 Credits)
Contract approved by instructor, advisor, and undergraduate division head is required.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Research

ECON 402 - Money, Income, and Prices (3 Credits)
A study of monetary standards, monetary theory, monetary policy, and the mechanism of international payments. Attention is devoted to questions of monetary problems, employment, and fiscal policy.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 406 - Labor Economics (3 Credits)
A study of labor market institutions, trends in labor market activity, and the effects of government policy on the labor market. (Not open to majors in economics.)
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 408 - History of Economic Thought (3 Credits)
A survey of economics from the ancient philosophers to the present; with emphasis on the mercantilist, physiocratic, classical, Marxist, Austrian, neo-classical, and institutional schools of economics.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 415 - Economics of American Industry (3 Credits)
A study of the structure of selected American industries, of the development and concentration of economic power in the American economy, and of public policy toward industry.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 420 - Business Applications of Economic Forecasting (3 Credits)
Analysis of business cycles and applications of forecasting techniques to project and interpret economic trends.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 421 - Engineering Economics (3 Credits)
Decision making with respect to capital goods, with emphasis on such decision making in governmental activities and public utilities. Intended primarily for engineering students, the course emphasizes the types of investment decisions that engineers are often called upon to make.

ECON 436 - Introductory Econometrics (3 Credits)
The use of statistical techniques to analyze economic relationships. The emphasis is on the application of linear regression to real-world economic data.
Prerequisites: ECON 224, or ECON 221 and ECON 222; MGSC 291 or STAT 201; and MATH 122 or MATH 141.

Carolina Core: ARP

ECON 476 - Foundations of Capitalism (3 Credits)
Examines the foundations of capitalism and why it has prevailed over alternative systems. Topics include the justification of private property, distribution of wealth, profit motive, source of wealth creation, and others.
Prerequisites: ECON 211 and ECON 222.

ECON 499 - Internship in Economics (1-6 Credits)
Supervised work experience of at least nine hours per week, to include one class meeting a month and individual consultation. Contract approval by instructor, advisor, and department chair is required. Cannot be used to satisfy major requirement.
Prerequisites: C or better in both ECON 321 and ECON 322, and cumulative GPA of 2.75.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ECON 500 - Urban Economics (3 Credits)
An analysis of economic forces affecting urbanization and the economic processes influencing urban form and structure. Spatial concepts are considered in addition to traditional micro-economic and macro-economic concepts. Topic coverage includes: the economic origin of cities; urban functions and the urban economic base, land-use structure and urban form, and urban efficiency.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 503 - International Trade Economics (3 Credits)
Theory of international specialization, commercial policy, customs unions, and the effects of trade liberalization and protectionism; economic growth and multinational enterprises.
Prerequisites: ECON 321.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 504 - International Monetary Economics (3 Credits)
Exchange rate and balance of payments determination; purchasing-power parity; optimum currency areas, absorption, elasticity, monetary approaches, spot- and forward-exchange markets.
Prerequisites: ECON 322.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 505 - International Development Economics (3 Credits)
Economic theories of growth in developing countries. Use of factor resources; role of social and economic institutions; use of financial trade policies for growth.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning
ECON 506 - Labor Economics and Labor Markets (3 Credits)
Economics of labor demand, labor supply, wage determination in competitive markets, migration, discrimination, unemployment, and labor unions. Theoretical models and empirical knowledge will be considered.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224; ECON 321.

ECON 507 - Comparative Economic Systems (3 Credits)
An analysis of the organization and operation of the world's major economic systems.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 508 - Law and Economics (3 Credits)
Economic analysis and interpretation of the law. The economic effect of current law and optimal design of law to meet social objectives.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 509 - Economics of Sustainable Development (3 Credits)
Exploration of the basic theory and practice of sustainable economic development. Topics include: environmental legislation, global agreements, sustainable development indicators, and economic strategies and methods to promote environmentally sound development.
**Prerequisites:** C or better in the following ECON 221 and ECON 222; or ECON 224; MATH 122.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 510 - Experimental Economics (3 Credits)
Exploration of the basic theory and techniques of experimental economics. Topics include: basic game theory, experimental design, and elements of behavioral economic thought.
**Prerequisites:** C or higher in ECON 321.

ECON 511 - Senior Seminar in Economics (3 Credits)
Philosophy and methodology of economics, perspectives on theory and empiricism, economic policy; individualized guided research.
**Prerequisites:** ECON 321, ECON 322, and ECON 436 with grade of C or higher.

ECON 514 - The Economics of Terrorism (3 Credits)
Focuses on the following aspects of terrorism: (1) its causes/determinants (historical, social, cultural, economic, political, and religious determinants); (2) the organizational and funding structure of terrorist groups; (3) the tactics and weapons of terrorist groups; (4) mobilization and recruitment within terror networks; and (5) counterterrorism methods. Restricted to: Business Majors and Economics Arts and Sciences Majors.
**Prerequisites:** C or better in ECON 321.

ECON 515 - Industrial Organization (3 Credits)
This course uses the tools of microeconomics and game theory to examine how firms compete and competition's impact on industry performance. Topics include: price discrimination, product differentiation, and oligopoly behavior.
**Prerequisites:** ECON 321.

ECON 516 - Political Economy (3 Credits)
This course covers fundamental models of collective decision making, studies their empirical relevance, and considers interactions between the economy and politics.
**Prerequisites:** C or better in ECON 221 and ECON 222 or C or better in ECON 224.

ECON 523 - Introduction to Mathematical Economics (3 Credits)
Mathematical formulation of economic theories; the use of mathematics in the development and demonstration of economic relationships.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224; MATH 122, MATH 141, or the equivalent.

ECON 524 - Essentials of Economics (3 Credits)
A course designed to acquaint the student with the principles of operation of the American economic system. A survey course for social studies teachers in secondary schools.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 526 - Managerial Economics (3 Credits)
A study of the application of the economic theory of profits, competition, demand, and costs to analysis of problems arising in the firm and in decision making. Price policies, forecasting, and investment decisions are among the topics considered.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 530 - The Economics of Education (3 Credits)
Investment in human capital; the economic value of schooling; internal efficiency of schools; faculty compensation; equity and efficiency of school finance systems; financing higher education.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 531 - Health Economics (3 Credits)
Applications of economic analysis to health care. Structure and behavior of health-care markets. Description of health care policy issues.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 548 - Environmental Economics (3 Credits)
An analysis of the economic aspects of environmental decay, pollution control, and natural resource use. Analysis of the ability of the market system to allocate resources efficiently when economic activity is accompanied by environmental damage. Discussion of alternative public policy approaches to pollution control and natural resource conservation.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

Cross-listed course: ENVR 548

ECON 555 - Game Theory in Economics (3 Credits)
Game theory as used to understand decision making in business, economics, politics and other real-world environments. Topics covered include: basic terminology, strategic, extensive, and combinatorial models; and equilibrium strategy.
**Prerequisites:** ECON 321 or MATH 141 and STAT 201 or C or higher in STAT 206.

ECON 562 - Public Finance (3 Credits)
Theory and practice of taxation: public revenue, expenditure, and debt.
**Prerequisites:** C or higher in ECON 321.

ECON 589 - Topics in Economics (1-3 Credits)
Individual topics to be announced with title.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 594 - Introduction to Econometrics (3 Credits)
Statistical and economic tools applied to analysis of business and economic problems with the aid of computers.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224; MGSC 291 or STAT 201, MATH 122 or MATH 141.
ECON 621 - Survey of Contemporary Economic Theory (3 Credits)
Neo-classical value and distribution theory combined with income and employment theory.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 690 - Quantitative Foundations for Business and Economics I (3 Credits)
Calculus and classical optimization methods applied to problems in business and economic analysis; matrices, derivatives, and integrals in the analysis of both univariate and multivariate business and economic models.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 691 - Quantitative Foundations for Business and Economics II (3 Credits)
Statistics and probability theory applied to problems of business and economic analysis.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224; MGSC 690 or ECON 690.

ECON 692 - Quantitative Methods I (3 Credits)
Probability and statistics necessary for graduate study in economics and business administration; estimation, hypothesis testing, regression, analysis of variance, and nonparametric methods.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224.

ECON 694 - Quantitative Methods II (3 Credits)
A study of decision models useful in business administration. Topics covered include linear programming, sensitivity analysis and duality, network models, integer programming, determinate and stochastic dynamic programming, inventory, and queues.
**Prerequisites:** ECON 221 and ECON 222, or ECON 224; ECON 692, mathematics and computer portion of Fundamental Business Skills or equivalent.

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.50 and completion of MATH 122 or MATH 141 with a C or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.50 and completion of MATH 122 or MATH 141 with a C or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, cardiovascular technology, biological sciences, chemistry, biochemistry and molecular biology, economics, environmental science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed below in the sections of this bulletin that describe department and special degree programs.

**Degree Requirements (120 hours)**

**Program of Study**

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<tbody>
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<td>1. Carolina Core Requirements (32-44 hours)</td>
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<tr>
<td>CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)</td>
<td></td>
</tr>
<tr>
<td>must be passed with a grade of C or higher</td>
<td></td>
</tr>
<tr>
<td>• any CC-CMW courses (p. 743)</td>
<td></td>
</tr>
<tr>
<td>ARP – Analytical Reasoning and Problem Solving (6-7 hours)</td>
<td>15-18</td>
</tr>
<tr>
<td>must be passed with a grade of C or higher</td>
<td></td>
</tr>
<tr>
<td>• MATH 122 or MATH 141</td>
<td></td>
</tr>
<tr>
<td>• STAT 201</td>
<td></td>
</tr>
<tr>
<td>SCI – Scientific Literacy (8 hours)</td>
<td></td>
</tr>
<tr>
<td>• two 4-credit hour CC-SCI laboratory science courses (p. 743)</td>
<td>31-49</td>
</tr>
<tr>
<td>GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)</td>
<td>24-27</td>
</tr>
<tr>
<td>Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.</td>
<td></td>
</tr>
<tr>
<td>• CC-GFL courses (p. 743)</td>
<td></td>
</tr>
</tbody>
</table>

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

**Economics, B.A.**

**Learning Outcomes**

- Our graduates will understand core microeconomic theories and concepts.
- Our graduates will understand core macroeconomic theories and concepts.
- Our graduates will be able to solve basic equations to find equilibrium outcomes and use graphs to understand and interpret economic relationships.
- Our graduates will be able to demonstrate their understanding of economic concepts and quantitative knowledge and use these concepts and knowledge to analyze real-world problems.

**Admissions**

**Entrance Requirements**

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.50 and completion of MATH 122 or MATH 141 with a C or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:
GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
  • any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  • any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
  • any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
  • any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
  • any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
  • any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
  • only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
  • One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  or
  • One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
  • Three hours of Social Science
  • Nine hours of Fine Arts or Humanities

3. Program Requirements (31-49 hours)

Supporting Courses (6 hours)

must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 221</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 222</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Note: Students who took ECON 224 must take either ECON 221 or ECON 222. A student who earned an A in ECON 224 may be exempted.

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences. (p. 303)

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Cognate courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).
Electives (10-31 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (24-27 hours)
*Must be passed with a grade of C or higher.*

Economics majors may enroll in ECON 221, ECON 222, ECON 321, ECON 322 and ECON 436 a maximum of twice to earn the required grade of C or higher. For the purposes of this standard progression, withdrawal with a W does not constitute enrollment. Students who plan to major in economics are advised to consult the director of undergraduate studies during the freshman year.

<table>
<thead>
<tr>
<th>Major Courses (9 hours)</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 321</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 322</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 436</td>
<td>Introductory Econometrics</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours: 9

Major Electives (15-18 hours)
- Five ECON electives, 400-level or higher, excluding ECON 421, ECON 476, ECON 499 and ECON 524.

Note: If a student earned an A in ECON 224 and is exempted from taking ECON 221 and ECON 222, one additional ECON elective must be taken.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.50 and completion of MATH 122 or MATH 141 with a C or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.50 and completion of MATH 122 or MATH 141 with a C or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.50 and completion of MATH 122 or MATH 141 with a C or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, cardiovascular technology, biological sciences, chemistry, biochemistry and molecular biology, economics, environmental science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed below in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>29-47</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>24-27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours) *must be passed with a grade of C or higher*  
- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-7 hours) *must be passed with a grade of C or higher*  
- MATH 141
- MATH 142

SCI – Scientific Literacy (8 hours)  
- two 4-credit hour CC-SCI (p. 743) laboratory science courses
GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)
*must be passed with a grade of C or higher*

- STAT 201
- CSCE 102

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
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Social Science and Fine Arts or Humanities (6 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Three hours of Fine Arts or Humanities

3. Program Requirements (29-47 hours)

Supporting Courses (6 hours)

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<thead>
<tr>
<th>Course</th>
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</table>

Total Credit Hours 6

Note: Students who took ECON 224 must take either ECON 221 or ECON 222. A student who earned an A in ECON 224 may be exempted.

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

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It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.
Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (8-29 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (24-27 hours)
Must be passed with a grade of C or higher.

Economics majors may enroll in ECON 221, ECON 222, ECON 321, ECON 322, and ECON 436 a maximum of twice to earn the required grade of C or higher. For the purposes of this standard progression, withdrawal with a W does not constitute enrollment. Students who plan to major in economics are advised to consult the director of undergraduate studies in economics during the freshman year.

Major Courses (9 hours)

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</tr>
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<td>Introductory Econometrics</td>
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</tr>
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</table>

Total Credit Hours 9

Major Electives (15-18 hours)
- Five ECON electives, 400-level or higher, excluding ECON 421, ECON 476, ECON 499 and ECON 524.

Note: If a student earned an A in ECON 224 and is exempted from taking ECON 221 and ECON 222, one additional ECON elective must be taken.

Major Map
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Economics, B.S.

English Language and Literature

Department Website (http://www.cas.sc.edu/engl/)
Nina Levine, Chair

The Department of English offers the Bachelor of Arts degree with a major in English. The general major assures a broad knowledge of literature and composition. The intensive major is tailored for those students planning to pursue graduate study in English and/or American literature. The writing concentration is a version of the major placing special emphasis on advanced composition. The department also offers a minor in speech, with courses in public speaking, business and professional communication, speech criticism, performance studies, and small group communication.

Programs
- Creative Writing Minor (p. 72)
- English Minor (p. 72)
- English, B.A. (p. 72)
- Professional Writing and Communication Minor (p. 76)
- Speech Communication Minor (p. 76)

Courses
ENGL 101 - Critical Reading and Composition (3 Credits)
Instruction in strategies for critically reading and analyzing literature and non-literary texts; structured, sustained practice in composing expository and analytical essays.
Carolina Core: CMW

ENGL 102 - Rhetoric and Composition (3 Credits)
Instruction and intensive practice in researching, analyzing, and composing written arguments about academic and public issues.
Prerequisites: C or better in ENGL 101 or equivalent credit.
Carolina Core: CMW, INF

ENGL 200 - Creative Writing, Voice, and Community (3 Credits)
Workshop course on creative writing with a focus on values, ethics, and social responsibility.
Prerequisites: ENGL 101 and ENGL 102.
Carolina Core: AIU, VSR

ENGL 270 - World Literature (3 Credits)
Selected masterpieces of world literature from antiquity to present.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.
Carolina Core: AIU, VSR

Cross-listed course: CPLT 270

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 280 - Literature and Society (3 Credits)
Fiction, poetry, drama and other cultural texts engaged with questions of values, ethics and social responsibility.
Prerequisites: ENGL 101 and ENGL 102.
Carolina Core: AIU, VSR
ENGL 282 - Special Topics in Fiction (3 Credits)
Special topics in fiction from several countries and historical periods, illustrating the nature of the genre. May be repeated for credit. Content varies by title and semester.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.

Carolina Core: AIU

ENGL 283 - Special Topics in British Literature (3 Credits)
Special topics in British literature exemplifying persistent themes of British culture. May be repeated for credit. Content varies by title and semester.
Prerequisites: ENGL 101 and 102 or equivalent.

Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Global Learning

ENGL 284 - Drama (3 Credits)
Drama from several countries and historical periods, illustrating the nature of the genre.
Prerequisites: ENGL 101 and 102 or equivalent.

Carolina Core: AIU

ENGL 285 - Special Topics in American Literature (3 Credits)
Special topics in American literature exemplifying persistent themes of American culture. May be repeated for credit. Content varies by title and semester.
Prerequisites: ENGL 101 and 102 or equivalent.

Carolina Core: AIU

ENGL 286 - Poetry (3 Credits)
Poetry from several countries and historical periods, illustrating the nature of the genre.
Prerequisites: ENGL 101 and 102 or equivalent.

Carolina Core: AIU

ENGL 287 - American Literature (3 Credits)
An introduction to American literary history, emphasizing the analysis of literary texts, the development of literary traditions over time, the emergence of new genres and forms, and the writing of successful essays about literature. Designed for English majors.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.

Carolina Core: AIU

ENGL 288 - English Literature (3 Credits)
An introduction to English literary history, emphasizing the analysis of literary texts, the development of literary traditions over time, the emergence of new genres and forms, and the writing of successful essays about literature. Designed for English majors.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.

Carolina Core: AIU

ENGL 309 - Teaching Writing in One-to-One Sessions (3 Credits)
The study of theories and pedagogy of individualized writing instruction with intensive writing practice including hands-on one-on-one sessions. Recommended for prospective writing teachers.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ENGL 340 - Literature and Law (3 Credits)
Introduction to the interdisciplinary study of literature and law.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 341 - Literature and Medicine (3 Credits)
Introduction to the interdisciplinary study of literature and medicine.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 350 - Introduction to Comics Studies (3 Credits)
Scholarly study of the formal and aesthetic evolutions of graphic novels, comic books, and other related forms.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: FAMS 350

ENGL 360 - Creative Writing (3 Credits)
Workshop course on writing original fiction, poetry, drama, and creative nonfiction.
Prerequisites: ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Community Service

ENGL 363 - Introduction to Professional Writing (3 Credits)
Overview of concepts, contexts, and genres used in professional communication. Intensive practice in analyzing, emulating, and creating textual and multimedia documents for a variety of professional, non-academic purposes (including commercial, informative, persuasive, and technical).
Prerequisite or Corequisite: C or higher in both ENGL 101 and ENGL 102.

ENGL 370 - Language in the USA (3 Credits)
Linguistic examination of the structure, history, and use of language varieties in the U.S., with a particular focus on regional and sociocultural variation and relevant sociolinguistic issues.
Prerequisites: ENGL 101; ENGL 102.

Cross-listed course: LING 345

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ENGL 380 - Epic to Romance (3 Credits)
Comprehensive exploration of medieval and other pre-Renaissance literature using texts representative of the evolution of dominant literary forms.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 380

ENGL 381 - The Renaissance (3 Credits)
Literature of the Renaissance, in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 381

ENGL 382 - The Enlightenment (3 Credits)
Literature of the Enlightenment in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 382

ENGL 383 - Romanticism (3 Credits)
Literature of Romanticism, in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 383
ENGL 392 - Great Books of the Eastern World (3 Credits)
Classical and contemporary poetry and prose of the Middle and Far East.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

Cross-listed course: CPLT 303
Graduation with Leadership Distinction: GLD: Global Learning

ENGL 393 - Postcolonialism (3 Credits)
Literature of Postcolonialism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 395 - Classical Drama (3 Credits)
Representative plays by Greek and Roman dramatists.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Prerequisites: ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Research

ENGL 400 - Early English Literature (3 Credits)
Major works of Old and Middle English literature (excluding Chaucer).
Prerequisites: ENGL 101 and ENGL 102.

ENGL 401 - Chaucer (3 Credits)
Chaucer’s works, with special attention to The Canterbury Tales.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 402 - Tudor Literature (3 Credits)
English non-dramatic poetry and prose of the 16th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 403 - The 17th Century (3 Credits)
Poetry and prose of major 17th-century writers (excluding Milton).
Prerequisites: ENGL 101 and ENGL 102.

ENGL 404 - English Drama to 1660 (3 Credits)
Drama in England, from the Middle Ages to the Restoration (excluding Shakespeare).
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 405 - Shakespeare’s Tragedies (3 Credits)
Prerequisite: ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 406 - Shakespeare’s Comedies and Histories (3 Credits)
Note: All Literature Courses 300 and above require ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 407 - Milton (3 Credits)
Milton’s works, with special attention to Paradise Lost.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 410 - The Restoration and 18th Century (3 Credits)
Poetry and prose from 1660 to the later 18th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 411 - British Romantic Literature (3 Credits)
Poetry and prose of the English Romantic period.
Prerequisites: ENGL 101 and ENGL 102.
ENGL 412 - Victorian Literature (3 Credits)
Poetry and prose from the 1830s to the end of the century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 413 - Modern English Literature (3 Credits)
Poetry and prose of the 20th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 414 - English Drama Since 1660 (3 Credits)
Major dramatists from the Restoration to the present.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 415 - The English Novel I (3 Credits)
A study of the novel from the beginnings through Walter Scott.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 416 - The English Novel II (3 Credits)
A study of the novel from Walter Scott into the 20th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 419 - Topics in English Literature (3 Credits)
Intensive study of selected topics. May be repeated for credit under a different title. Course can be taken 2 times for credit. 6 is the maximum number of credit hours if course can be taken multiple times.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 420 - American Literature to 1830 (3 Credits)
Colonial, Revolutionary, and early Romantic poetry and prose.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 421 - American Literature 1830-1860 (3 Credits)
Poetry and prose of the American Romantic period.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 422 - American Literature 1860-1910 (3 Credits)
Poetry and prose from the Civil War to the early modern era.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 423 - Modern American Literature (3 Credits)
Poetry and prose of the 20th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 424 - American Drama (3 Credits)
Representative plays from the 18th century to the present.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 425A - The American Novel to 1914 (3 Credits)
Representative novels from the 18th century to World War I.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 425B - The American Novel Since 1914 (3 Credits)
Representative novels from 1914 to the present.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 426 - American Poetry (3 Credits)
Representative works from the 17th century to the present.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 427 - Southern Literature (3 Credits)
Representative works of Southern writers.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 428A - African-American Literature I: to 1903 (3 Credits)
Representative of African-American writers to 1903.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: AFAM 428A
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 428B - African-American Literature II: 1903 – Present (3 Credits)
Representative works of African-American writers from 1903 to the present.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: AFAM 428B
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 429 - Topics in American Literature (3 Credits)
Intensive study of selected topics. May be repeated for credit under a different title.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 430 - Topics in African American Literature (3 Credits)
Intensive study of selected topics. May be repeated for credit under a different title.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 431A - Children's Literature (3 Credits)
Literature written for children in a variety of historical periods and geographical regions, illustrating the nature of the genre.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 431B - Picture Books (3 Credits)
Literature written for children and young adults that communicates through interdependent visual and verbal modes.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 432 - Young Adult Literature (3 Credits)
Post-World War II literature in a variety of genres whose primary audience is young adults.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 433 - Special Topics in Children's and Young Adult Literature (3 Credits)
Intensive study of a genre, historical period, geographical regions, author, or theme in Children’s or Young Adult Literature. May be repeated as content varies by title.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 434 - Environmental Literature (3 Credits)
Literature of the natural environment and of human interactions with nature, along with critical theories about human/nature interactions.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 435 - The Short Story (3 Credits)
The characteristics of the short story and its historical development in America and Europe.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 436 - Science Fiction Literature (3 Credits)
Representative masterworks of science fiction from the beginnings of the genre to the present.
Prerequisites: ENGL 101 and ENGL 102.
ENGL 437 - Women Writers (3 Credits)
Representative works written by women.
**Prerequisites:** C or higher in both ENGL 101 and ENGL 102.

**Cross-listed course:** WGST 437

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

ENGL 438A - South Carolina Writers (3 Credits)
Authors and literary forms representative of South Carolina.
**Prerequisites:** ENGL 101 and ENGL 102.

ENGL 438B - Scottish Literature (3 Credits)
Authors and literary forms representative of Scotland.
**Prerequisites:** ENGL 101 and ENGL 102.

ENGL 438C - Irish Literature (3 Credits)
Authors and literary forms representative of Ireland.
**Prerequisites:** ENGL 101 and ENGL 102.

ENGL 438D - African Literature (3 Credits)
Authors and literary forms representative of Africa.
**Prerequisites:** ENGL 101 and ENGL 102.

**Cross-listed course:** AFAM 438D

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

ENGL 438E - Caribbean Literature (3 Credits)
Authors and literary forms representative of the Caribbean.
**Prerequisites:** ENGL 101 and ENGL 102.

**Cross-listed course:** AFAM 438E

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

ENGL 439 - Selected Topics (3 Credits)
Intensive study of selected themes, topics, currents of thought, or interdisciplinary concerns. May be repeated for credit under a different course title.
**Prerequisites:** ENGL 101 and ENGL 102.

ENGL 440 - Principles of Modern Literary Theory (3 Credits)
Major 20th-century approaches to texts, from New Criticism to the present.
**Prerequisites:** ENGL 101 and ENGL 102.

ENGL 441 - Global Contemporary Literature (3 Credits)
**Prerequisites:** ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 445 - LGBTQ+ Literature (3 Credits)
This course will examine LGBTQ+ (lesbian, gay, bisexual, trans, queer, and other nonnormative sexual identities) literatures and cultures.
**Prerequisites:** C or better in ENGL 101 and ENGL 102.

**Cross-listed course:** WGST 445

ENGL 449 - Special Topics in Theory (3 Credits)
Approaches to criticism, such as feminism, Marxism, semiology, deconstruction, New Historicism, cultural materialism, and others; or genre, such as narrative, poetry, drama, and others.
**Prerequisites:** ENGL 101 and ENGL 102.

ENGL 450 - English Grammar (3 Credits)
Major structures of English morphology and syntax; role of language history and social and regional variation in understanding contemporary English.
**Prerequisites:** ENGL 101 and ENGL 102.

**Cross-listed course:** LING 421

ENGL 453 - Development of the English Language (3 Credits)
History of English from the earliest Old English texts through Middle English to Contemporary English. No previous knowledge of Old or Middle English is required.
**Prerequisites:** ENGL 101 and ENGL 102.

**Cross-listed course:** LING 431

ENGL 455 - Language in Society (3 Credits)
Patterns in language use as a reflection of social group memberships or the negotiation of interpersonal relationships; special attention to social dialects and stylistic differences in American English.
**Prerequisites:** ENGL 101 and ENGL 102.

**Cross-listed course:** LING 440

**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 457 - African-American English (3 Credits)
Linguistic examination of the structure, history, and use of African-American English, as well as literary presentations, language attitudes, and issues relating to education and the acquisition of Standard English.
**Prerequisites:** ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

**Cross-listed course:** AFAM 442, ANTH 442, LING 442

**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 460 - Advanced Writing (3 Credits)
Extensive practice in different types of nonfiction writing.
**Prerequisites:** ENGL 101 and ENGL 102.

ENGL 461 - The Teaching of Writing (3 Credits)
Theory and methods of teaching composition and extensive practice in various kinds of writing. Recommended for prospective writing teachers.
**Prerequisites:** ENGL 101 and ENGL 102.

ENGL 462 - Technical Writing (3 Credits)
Preparation for and practice in types of writing important to scientists, engineers, and computer scientists, from brief technical letters to formal articles and reports.
**Prerequisites:** ENGL 101 and ENGL 102.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

ENGL 463 - Business Writing (3 Credits)
Extensive practice in different types of business writing, from brief letters to formal articles and reports.
**Prerequisites:** ENGL 101 and ENGL 102.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research
ENGL 464 - Poetry Workshop (3 Credits)
Workshop in writing poetry.
Prerequisites: C or better in ENGL 101 and ENGL 102 or equivalent.

ENGL 465 - Fiction Workshop (3 Credits)
Workshop in writing fiction.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 466 - Internship (1-3 Credits)
Supervised professional experience writing in a workplace or community agency, including analysis and production of documents. Internship contract and department permission required. 6 is the Maximum number of credit hours if course can be taken multiple times.
Prerequisites: ENGL 101 and ENGL 102. Internship contract and department permission required.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ENGL 467 - Topics in Rhetoric (3 Credits)
Intensive study of selected topics. May be repeated for credit under a different title.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 468 - Digital Writing (3 Credits)
Emphasis on writing in digital environments, exploring critically and creatively what it means to compose in emerging genres and media. Students will create multimedia texts that may include digital video, audio podcasts, social networks, and/or blogs and wikis, among other digital modes of expression.

ENGL 469 - Creative Nonfiction (3 Credits)
Explores the various subgenres and techniques of creative nonfiction, such as collage, memoir and literary journalism by reading polished examples and by responding to writing exercises designed to prompt ideas and hone skills.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 470 - Rhetoric of Science and Technology (3 Credits)
Rhetorical study of science and technology in contemporary culture, emphasizing the ways scientific texts and technologies make their persuasive appeals.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: SPCH 470

ENGL 471 - Rhetoric and the Ancient Roots of Modern Life (3 Credits)
Classical rhetoric and its ongoing influence in the modern world, emphasizing how the study and use of language in ancient Greece and Rome continue to shape modern communication.
Cross-listed course: CLAS 471, SPCH 471

ENGL 472 - Rhetoric and Popular Culture (3 Credits)
Rhetorical study of popular culture, using the methods and theories of cultural analysis to examine how various popular cultural forms work as persuasion.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: SPCH 472

ENGL 473 - Film and Media Theory and Criticism (3 Credits)
Theory and criticism of film and media from the 1910s to the present. Considers a range of critical approaches to analyzing what different forms of audio-visual media do to and for the audiences they address and the worlds they depict.
Prerequisites: FAMS 240.

ENGL 474 - History of Cinema I (3 Credits)
Survey of the international cinema from its inception until 1945.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.

ENGL 475 - History of Cinema II (3 Credits)
Survey of the international cinema from 1945 to the present.
Prerequisites: ENGL 101 and 102 or equivalent; ARTH 366.

ENGL 485 - Women’s Rhetoric (3 Credits)
Study of rhetoric by and about women as manifested in speeches, essays, and other rhetorical artifacts.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: SPCH 485, WGST 485
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 486 - African-American Rhetoric (3 Credits)
African-American rhetoric as manifested in speeches, essays, and other rhetorical artifacts.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

Cross-listed course: AFAM 486, SPCH 486
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 487 - Black Women Writers (3 Credits)
An examination of literature by and about black women, including fiction, poetry, drama, and autobiography. This study will focus on issues that emerge from the creative representations of black women and the intersections of race, gender, sexuality, and class that interrogate what is both particular and universal experiences.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: AFAM 487, WGST 487
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ENGL 490 - Topics in Advanced Study (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topics vary.
Prerequisites: ENGL 101 and ENGL 102; English major, junior or senior standing, or consent of instructor.

ENGL 491 - Advanced Poetry Workshop (3 Credits)
Students will study poetry writing at an advanced undergraduate level through close readings of professional poetry, composition of original work, and regular practice in the evaluation of peer work.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 492 - Advanced Fiction Workshop (3 Credits)
Students will study the art and craft of writing literary fiction at an advanced level through close readings and the composition of original short stories.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 493 - Advanced Creative Non-Fiction (3 Credits)
The art and craft of writing creative nonfiction at the advanced level.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.
ENGL 494 - Advanced Professional Writing Workshop (3 Credits)
An advanced workshop on the genres, practices, and contexts of professional writing for experienced writers.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 499 - Thesis (3 Credits)
Directed research resulting in a project of substantial length. Upper-level English majors; permission of undergraduate director and supervising faculty member.

ENGL 550 - Language of the Professions (3 Credits)
Practical survey of the syntactic structures of English; usage, social and regional variation emphasis on data.
Prerequisites: ENGL 450, LING 421 or ENGL 680, LING 600.

ENGL 565 - African American Theatre (3 Credits)
The major movements, figures, plays, and critical strategies that have marked the development of African American theatre in the 19th, 20th, and 21st centuries.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

Cross-listed course: AFAM 565, THEA 565

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 566 - Special Topics in U.S. Film and Media (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: MART 593

ENGL 600 - Seminar in Verse Composition (3 Credits)
First half of a year-long course in the writing of poetry taught by a contemporary poet. Limited to 15 students.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 601 - Seminar in Verse Composition (3 Credits)
Second half of a year-long course in the writing of poetry taught by a contemporary poet. Limited to 15 students.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 602 - Fiction Workshop: Short Story (3 Credits)
Instruction in the writing of short fiction taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 603 - Non-Fiction Prose Workshop (3 Credits)
Instruction in the writing of the nonfiction essay taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 604 - Seminar in Composition for the Visual Media (3 Credits)
Writing for the visual arts, the student will write a treatment (prospectus) and one or more multimedia scripts; or one or more teleplays; or a feature-length screenplay. Limited to 15 students.
Prerequisites: ENGL 101 and ENGL 102 or equivalent; ENGL 565 or equivalent experience in film as determined by the instructor.

ENGL 605 - Seminar in Composition for the Visual Media (3 Credits)
Writing for the visual arts, the student will write a treatment (prospectus) and one or more multimedia scripts; or one or more teleplays; or a feature-length screenplay. Limited to 15 students.
Prerequisites: ENGL 101 and ENGL 102 or equivalent; ENGL 565 or equivalent experience in film as determined by the instructor.

ENGL 606 - Playwriting Workshop (3 Credits)
Instruction in playwriting taught by a contemporary playwright. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 609 - Fiction Workshop: Book-Length Manuscript (3 Credits)
Instruction in the writing of book-length manuscripts taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 610 - Fiction Workshop: Book-Length Manuscript (3 Credits)
Instruction in the writing of book-length nonfiction memoir or literary journalism project taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 611 - Writing the Longer Nonfiction Project (3 Credits)
Instruction in the writing of a book-length nonfiction memoir or literary journalism project taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 612 - Writing Poetry: Traditional and Modern Forms (3 Credits)
The writing of traditional and modern poetic forms. Exercises will give practice in composing metered and free verse. Representative masterpieces of traditional and modern poetry will also be studied.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 613 - Writing the Full-Length Play (3 Credits)
Instruction in the writing of a full-length, two-act play for publication or production. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 615 - Academic and Professional Writing (3 Credits)
A workshop course in the development and revision of writing for academic and professional audiences.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 616 - Writing Children's and Young Adult Literature (3 Credits)
Critical study and practical crafting of literature for children and/or young adults, exploring the demands of these genres both through the reading of representative works and relevant secondary sources and through the writing of creative works. Undergraduate students must receive permission of instructor.

ENGL 620 - Computer Methods for Humanistic Problems (3 Credits)
Introduction to data processing concepts suitable for research interests in non-numerical areas such as the humanities.

ENGL 620P - Laboratory for Computer Methods for Humanistic Problems (1 Credit)
Broad but intensive introduction to computer systems and programming for students in the humanities. No mathematical or scientific background is presumed. Laboratory experience with data-processing equipment; introduction to elementary digital computer programming in an appropriate language.
Corequisite: ENGL 620.
ENGL 650 - Special Topics in Literature (1-3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated for credit as topics vary.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 680 - Survey of Linguistics (3 Credits)
Survey of core areas of linguistics and extensions to closely related disciplines. Introduction to the linguistic component of human cognition. Formal description and analysis of the general properties of speech and language, the organization of language in the mind/brain, and cross-linguistic typology and universals.
Cross-listed course: ANTH 600, LING 600

ENGL 690 - Special Topics in Composition (3 Credits)
Course content varies and will be announced in the schedule of classes by title.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 691 - Teaching of Literature in College (2 Credits)
Introduction to the methods of teaching literature, with emphasis on current pedagogical practice and theory and applications of electronic media. The course meets during the first seven weeks of the term and provides supervision of graduate students teaching English 101.

ENGL 692 - Teaching of Composition in College (1 Credit)
Introduction to the methods of teaching composition, with emphasis on current pedagogical practice and theory and applications of electronic media. The course meets during the first seven weeks of the term and provides supervision of graduate students teaching English 102.

SPCH 140 - Public Communication (3 Credits)
Introduction to theory and practice of oral communication in public, social, and institutional contexts. Includes foundational and cumulative training in the invention, performance, and critical analysis of oral communication, with emphasis on argumentation, persuasion, audience analysis, delivery, and ethical forms of engagement.
Carolina Core: CMS
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 145 - Online Public Communication (3 Credits)
Introduction to theory and practice of live and recorded online spoken communication in public, social, and institutional contexts. Training in invention, performance, and critical analysis of online spoken communication, including audience analysis, persuasion, delivery, and ethical engagement. Includes significant practice in preparing and presenting live online public communication.
Carolina Core: CMS

SPCH 150 - Speaking Anxiety Reduction Laboratory (1 Credit)
Exercises, techniques, and demonstrations aimed toward reducing public speaking anxiety. Not for major credit.
Corequisite: THEA 140 or THEA 230.

SPCH 201 - Popular Communication and Public Culture (3 Credits)
Examination of historical and popular communication conflicts, texts, and events. Offers an introduction to critical concepts and analysis of public speech, rhetoric, and cultural discourse.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 213 - Communicating Moral Issues (3 Credits)
Moral issues confronting men and women in contemporary society and the challenges of communicating effectively about them. Topics will vary but may include access to health care, euthanasia, abortion, same sex marriage and the moral and environmental consequences of eating animals.
Cross-listed course: PHIL 213
Carolina Core: CMS

SPCH 230 - Business and Professional Speaking (3 Credits)
Fundamentals of oral communication within business and professional settings. Includes performance.
Carolina Core: CMS
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 260 - Argumentation and Debate (3 Credits)
Preparing and delivering the debate. Academic debate serves as a model.
Carolina Core: CMS

SPCH 330 - Small Group Communication (3 Credits)
The development of the skills and methods of effective participation in teams, committees, and other small groups.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 331 - Organizational Communication (3 Credits)
Examines communication behavior and networks within organizations through the study of major theories of organizational communication, identifies and defines primary concepts, and applies them to organizational scenarios and case studies.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 340 - Literature and Performance (3 Credits)
Introduction to the study of literature through performance; reading, analysis, and performance of prose, poetry, nonfiction, and drama.
Cross-listed course: THEA 340

SPCH 380 - Persuasive Communication (3 Credits)
Analysis of the process and functions of persuasive communication.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 387 - Introduction to Rhetoric (3 Credits)
Theories of human communication useful for understanding and informing the everyday work of writers. Emphasis on intensive analysis and writing.
Prerequisites: ENGL 101; ENGL 102.
Cross-listed course: ENGL 387
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 399 - Independent Study and Research (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

SPCH 411 - Arguments in Cultural Studies (3 Credits)
The study of texts and discourse from contemporary culture drawing from concepts such as politics, television, music, and other popular culture and entertainment.

SPCH 441 - Rhetorical Criticism (3 Credits)
Interpretation and evaluation of communication texts and events such as speeches, media, and social movements. Employs a variety of critical methods and approaches.
SPCH 448 - Contemporary Political Rhetoric (3 Credits)
Analysis and evaluation of speeches, political campaigns and controversies over political representation and recognition. Focus on case studies that illustrate the role of speech-making in political campaigns. Offered only in fall semesters in which national elections are held.

SPCH 463 - Great Debates (3 Credits)
A study of debates at the Constitutional Convention, Lincoln-Douglas debates (1858), vice presidential and presidential debates, and other national debates.

SPCH 464 - Speechwriting (3 Credits)
An exploration of the process of advanced policy advocacy emphasizing speechwriting strategies, issues management, and systematic advocacy campaigns.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 470 - Rhetoric of Science and Technology (3 Credits)
Rhetorical study of science and technology in contemporary culture, emphasizing the ways scientific texts and technologies make their persuasive appeals.

Prerequisites: ENGL 101, ENGL 102.

Cross-listed course: ENGL 470

SPCH 471 - Rhetoric and the Ancient Roots of Modern Life (3 Credits)
Classical rhetoric and its ongoing influence in the modern world, emphasizing how the study and use of language in ancient Greece and Rome continue to shape modern communication.

Cross-listed course: CLAS 471, ENGL 471

SPCH 472 - Rhetoric and Popular Culture (3 Credits)
Rhetorical study of popular culture, using the methods and theories of cultural analysis to examine how various popular cultural forms work as persuasion.

Prerequisites: ENGL 101; ENGL 102.

Cross-listed course: ENGL 472

SPCH 485 - Women's Rhetoric (3 Credits)
Study of rhetoric by and about women as manifested in speeches, essays, and other rhetorical artifacts.

Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 485, WGST 485

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SPCH 486 - African-American Rhetoric (3 Credits)
African-American rhetoric as manifested in speeches, essays, and other rhetorical artifacts.

Cross-listed course: AFAM 486, ENGL 486

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SPCH 499 - Special Topics in Speech (3 Credits)
Reading and research on selected topics. Course content varies and will be announced in the schedule of classes by title. May be repeated once as topics vary.

Graduation with Leadership Distinction: GLD: Research

SPCH 543 - Communication, Law, and Society (3 Credits)
Examines the role of communication in legal and judicial contexts. Focus on case studies that illustrate the theoretical and practical significance of rhetoric in the work of the courts, lawyers, and public advocacy groups.

Creative Writing Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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</tr>
<tr>
<td>One 200-level ENGL course</td>
<td>3</td>
<td></td>
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<tr>
<td>ENGL 360   Creative Writing</td>
<td>3</td>
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<tr>
<td>Select two of the following 400-level regular or advanced creative writing courses:</td>
<td>6</td>
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</tr>
<tr>
<td>ENGL 460   Advanced Writing</td>
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<tr>
<td>ENGL 464   Poetry Workshop</td>
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<td>ENGL 465   Fiction Workshop</td>
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<tr>
<td>ENGL 469   Creative Nonfiction</td>
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<tr>
<td>ENGL 491   Advanced Poetry Workshop</td>
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<tr>
<td>ENGL 492   Advanced Fiction Workshop</td>
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<tr>
<td>ENGL 493   Advanced Creative Non-Fiction</td>
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<tr>
<td>Select one of the following advanced creative writing courses:</td>
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</tr>
<tr>
<td>ENGL 491   Advanced Poetry Workshop</td>
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<tr>
<td>ENGL 492   Advanced Fiction Workshop</td>
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<tr>
<td>ENGL 493   Advanced Creative Non-Fiction</td>
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<tr>
<td>One elective (one 300-500 level ENGL course)</td>
<td>3</td>
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<tr>
<td><strong>Total Credit Hours</strong>                                                               18</td>
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</tbody>
</table>

English Minor

Minor Requirements

Prerequisites (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101   Critical Reading and Composition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 102   Rhetoric and Composition</td>
<td>3</td>
<td></td>
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<tr>
<td><strong>Total Credit Hours</strong>                                                               6</td>
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</tbody>
</table>

Note: Prerequisites will also satisfy basic degree requirements in the College of Arts and Sciences, Liberal Arts division.

Required Courses (18 Hours)

• One 200-level ENGL course (3 Hours)
• 300-500 level ENGL courses (15 Hours)

English, B.A.

Learning Outcomes

• Students will demonstrate knowledge of canonical and non-canonical texts, covering a range of periods, using current theoretical and critical approaches to literary and cultural studies.
• Students will demonstrate competence in critical thinking by learning how to acquire and evaluate information in order to form compelling analyses and reach well-justified conclusions.
• Students will demonstrate competence in written expression by learning the principles of grammar and composition and argument.
• Students will demonstrate basic linguistic knowledge (such as knowledge of the nature of human language, dialects, the development of grammar of the English language, and issues involving usage and standard English.)

Admissions
Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)
Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>28-43</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>30</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved
course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

3. Program Requirements (19-43 hours)

Supporting Courses (6 hours)

*must be passed with a grade of C or higher*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 287</td>
<td>American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 288</td>
<td>English Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences. (p. 303)

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (0-25 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (30-39 hours)

Students may choose to complete the General Major, the Writing Concentration Major, or an Intensive Major.

A minimum grade of C is required in all major courses.

General Major (30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Pre-1800 Literature courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Three Post-1800 Literature courses</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Five courses numbered ENGL 300 or higher</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 30

1 At least one course must be selected from ENGL 370, ENGL 389 or ENGL 450-ENGL 455, unless a Linguistics course is applied elsewhere in the student's curriculum.

Writing Concentration (30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 360</td>
<td>Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 378</td>
<td>Introduction to Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>One course numbered ENGL 300 or higher</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Writing and Rhetoric and/or Creative Writing
Select 9 hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 460</td>
<td>Advanced Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 461</td>
<td>The Teaching of Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 462</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 463</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 466</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>ENGL 467</td>
<td>Topics in Rhetoric</td>
<td></td>
</tr>
<tr>
<td>ENGL 468</td>
<td>Digital Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 470</td>
<td>Rhetoric of Science and Technology</td>
<td></td>
</tr>
<tr>
<td>ENGL 471</td>
<td>Rhetoric and the Ancient Roots of Modern Life</td>
<td></td>
</tr>
<tr>
<td>ENGL 472</td>
<td>Rhetoric and Popular Culture</td>
<td></td>
</tr>
<tr>
<td>ENGL 485</td>
<td>Women's Rhetoric</td>
<td></td>
</tr>
<tr>
<td>ENGL 486</td>
<td>African-American Rhetoric</td>
<td></td>
</tr>
</tbody>
</table>
English Literature

Intensive Major (39 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 438D</td>
<td>Advanced Professional Writing Workshop</td>
<td></td>
</tr>
<tr>
<td>ENGL 460</td>
<td>Advanced Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 464</td>
<td>Poetry Workshop</td>
<td></td>
</tr>
<tr>
<td>ENGL 465</td>
<td>Fiction Workshop</td>
<td></td>
</tr>
<tr>
<td>ENGL 469</td>
<td>Creative Nonfiction</td>
<td></td>
</tr>
<tr>
<td>ENGL 491</td>
<td>Advanced Poetry Workshop</td>
<td></td>
</tr>
<tr>
<td>ENGL 492</td>
<td>Advanced Fiction Workshop</td>
<td></td>
</tr>
<tr>
<td>ENGL 493</td>
<td>Advanced Creative Non-Fiction</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**: 30

Post-1800 Literature Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 390</td>
<td>Topics in Advanced Study (or Senior Thesis)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**: 12

1 At least one course must be selected from ENGL 370, ENGL 389 or ENGL 450-ENGL 455, unless a Linguistics course is applied elsewhere in the student’s curriculum.

Pre-1800 Literature Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 380</td>
<td>Epic to Romance</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 381</td>
<td>The Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 382</td>
<td>The Enlightenment</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 390</td>
<td>Great Books of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 395</td>
<td>Classical Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 400</td>
<td>Early English Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 401</td>
<td>Chaucer</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 402</td>
<td>Tudor Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 403</td>
<td>The 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 404</td>
<td>English Drama to 1660</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 405</td>
<td>Shakespeare’s Tragedies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 406</td>
<td>Shakespeare’s Comedies and Histories</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 407</td>
<td>Milton</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 410</td>
<td>The Restoration and 18th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 414</td>
<td>English Drama Since 1660</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 415</td>
<td>The English Novel I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 419</td>
<td>Topics in English Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 420</td>
<td>American Literature to 1830</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 429</td>
<td>Topics in American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 430</td>
<td>Topics in African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 437</td>
<td>Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438A</td>
<td>South Carolina Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438B</td>
<td>Scottish Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438C</td>
<td>Irish Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438D</td>
<td>African Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438E</td>
<td>Caribbean Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 439</td>
<td>Selected Literature</td>
<td>3</td>
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</tbody>
</table>

**Total Credit Hours**: 39

Post-1800 Literature Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 383</td>
<td>Romanticism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 384</td>
<td>Realism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 385</td>
<td>Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 386</td>
<td>Postmodernism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 391</td>
<td>Great Books of the Western World II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 411</td>
<td>British Romantic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 412</td>
<td>Victorian Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 413</td>
<td>Modern English Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 414</td>
<td>English Drama Since 1660</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 416</td>
<td>The English Novel II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 419</td>
<td>Topics in English Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 421</td>
<td>American Literature 1830-1860</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 422</td>
<td>American Literature 1860-1910</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 423</td>
<td>Modern American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 424</td>
<td>American Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 425A</td>
<td>The American Novel to 1914</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 425B</td>
<td>The American Novel Since 1914</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 426</td>
<td>American Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 427</td>
<td>Southern Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 428A</td>
<td>African American Literature I: to 1903</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 428B</td>
<td>African American Literature II: 1903 – Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 429</td>
<td>Topics in American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 430</td>
<td>Topics in African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 431A</td>
<td>Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 431B</td>
<td>Picture Books</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 434</td>
<td>Environmental Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 435</td>
<td>The Short Story</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 436</td>
<td>Science Fiction Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 437</td>
<td>Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438A</td>
<td>South Carolina Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438B</td>
<td>Scottish Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438C</td>
<td>Irish Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438D</td>
<td>African Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 438E</td>
<td>Caribbean Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 439</td>
<td>Selected Topics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 565</td>
<td>African American Theatre</td>
<td>3</td>
</tr>
</tbody>
</table>

**B.A. with Distinction (Open to all English Majors)**

The Departmental Undergraduate Research Track (B.A. with Distinction) is available to students majoring in English who maintain a minimum GPA of 3.50 in the major and 3.30 overall and who wish to participate in a substantial research or creative project in collaboration with, or under the supervision of, a faculty mentor. Ideally, students who pursue this option would complete their theses by December of their final year of coursework.

**Requirements**

- Overall GPA of 3.30 or higher and a GPA of at least 3.50 in the major;
- Senior Thesis: General, Writing, and Secondary Education track majors who wish to graduate with distinction must complete a thesis
in addition to the courses required for their chosen track within the English major. For intensive majors, the thesis is part of the required coursework. The thesis may be completed either by enrolling in ENGL 499 or by taking ENGL 490, provided that the latter course includes a thesis requirement;

- Submission of the distinction intent form (available in the undergraduate English office) to the undergraduate English office at the beginning of the semester in which you write your thesis;
- Public presentation of the thesis in an approved venue including:

  - English Department Colloquium Series
  - USC Discovery Day
  - Professional Conference or Journal publication.

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**English, B.A.**

No Concentration

**English, B.A.**

Writing Concentration

### Professional Writing and Communication Minor

#### Minor Requirements

The minor in Professional Writing and Communication consists of 18 credit hours or 6 classes.

All classes in the minor must be passed with a grade of C or higher.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one 200-level ENGL class</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 363</td>
<td>Introduction to Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select four courses of the following:</td>
<td>12</td>
</tr>
<tr>
<td>ENGL/SPCH</td>
<td>Introduction to Rhetoric</td>
<td></td>
</tr>
<tr>
<td>387</td>
<td>ENGL 460 Advanced Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 462</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 463</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 468</td>
<td>Digital Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 469</td>
<td>Creative Nonfiction</td>
<td></td>
</tr>
<tr>
<td>ENGL 494</td>
<td>Advanced Professional Writing Workshop</td>
<td></td>
</tr>
<tr>
<td>ENGL 466</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>SPCH 330</td>
<td>Small Group Communication</td>
<td></td>
</tr>
<tr>
<td>SPCH 331</td>
<td>Organizational Communication</td>
<td></td>
</tr>
<tr>
<td>SPCH 380</td>
<td>Persuasive Communication</td>
<td></td>
</tr>
<tr>
<td>SPCH 441</td>
<td>Rhetorical Criticism</td>
<td></td>
</tr>
<tr>
<td>SPCH 464</td>
<td>Speechwriting</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 18

### Speech Communication Minor

The minor in Speech Communication provides students with the skills, knowledge, and experiences vital to being effective producers and consumers of communication in business, organizational, political, and cultural settings. The diversity of courses offered in the program span from training in public speaking, to studies of political arguments and debates, to analysis of how we communicate through our visual representations, behaviors, and cultural practices.

#### Minor Requirements (18 Hours)

**Required Courses**

- 18 credit hours in Speech Communication (SPCH). 9 of those 18 credit hours must be in courses numbered 300 or higher.

### European Studies

Department Website (http://www.cas.sc.edu/euro/)

**Jeff Persels, Director**

European Studies is a program within the Richard L. Walker Institute of International and Area Studies offering an undergraduate minor. The minor is designed to provide a foundation for undergraduates in the College of Arts and Sciences who are interested in European history, cultures, geography, politics, and economics. Each student develops a program of study that combines work from two or more academic departments. Academic advisement is done by the program director in consultation with faculty from the participating departments.

### Courses

**EURO 300 - Introduction to European Studies** (3 Credits)

Team-taught interdisciplinary seminars, lectures, and readings with guest lecturers.

**Graduation with Leadership Distinction:** GLD: Global Learning

**EURO 490 - Senior Seminar** (3 Credits)

Topics in contemporary European studies. Applicable to EURO major only.

**Graduation with Leadership Distinction:** GLD: Research

**EURO 499 - Senior Thesis** (3 Credits)

Approval of topic by EURO advisor(s).

**Graduation with Leadership Distinction:** GLD: Research

### Film and Media Studies

Department Website (http://www.sc.edu/study/colleges_schools/artsandsciences/film_and_media_studies/)

**Lauren Steimer, Director**

Film and Media Studies majors study the media—its many forms, industries, aesthetics, audiences and impacts on global culture. Students gain the knowledge and skills necessary to critically engage with a wide array of media forms and practices as citizens, creators, and scholars. Major and minor programs of study cultivate increasingly important skills for the 21st century: analytic and interpretive skills, knowledge of diverse and global media histories, writing and research, and communication and collaboration. in problem solving, writing, research, analysis, oral communication, and collaboration. Students apply these skills to investigations of past, present, and future media artworks, industries and audiences. Students who earn a degree in Film and Media Studies enter diverse career paths within the entertainment and media
industries, professional fields such as law and education, work for NGO and nonprofit organizations, and more.

Students who might want to major or minor in film and media studies should begin with either FAMS 240 (CC-AIU) or FAMS 300 (CC-GHS). FAMS 110 (CC-AIU) is designed for non-majors who seek a broad introduction to foundational concepts in the analysis and production of media arts.

**Programs**
- Film and Media Studies Minor (p. 268)
- Film and Media Studies, B.A. (p. 269)

**Courses**

**FAMS 110 - Media Culture (3 Credits)**
Introduction to the critical study of film, video, photography, audio, and new media.
Cross-listed course: MART 110
Carolina Core: AIU

**FAMS 180 - Film Culture (3 Credits)**
How the film industry developed and the impact the movies have had on global popular culture. Does not count toward the film studies major.
Carolina Core: AIU

**FAMS 240 - Film and Media Analysis (3 Credits)**
Introduction to the critical study of film and media. Students will closely analyze moving images and develop written arguments about film and media.
Carolina Core: AIU

**FAMS 300 - Film and Media History (3 Credits)**
Surveys the development of cinema and related media from the 1820s to the present. Attention to the relations among key technological, cultural, and industrial changes, their causes, and consequences.
Carolina Core: GHS

**FAMS 301 - Media, Power & Everyday Life (3 Credits)**
Foundational approaches to media as a means of defining and distributing social power in everyday life.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

**FAMS 308 - Global Media Industries (3 Credits)**
Provides the foundation for the study of globalized film and media industries.
Cross-listed course: GLST 308

**FAMS 310 - Special Topics In Popular Media (3 Credits)**
Intensive study of a specific topic in popular film and media. May be repeated up to three times for a total of nine credit hours as content varies by title.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

**FAMS 311 - Classical Hollywood Cinema (3 Credits)**
Survey of Classical Hollywood Cinema in aesthetic, cultural, political, and economic contexts.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

**FAMS 316 - Music and the Hollywood Film (3 Credits)**
Examination of how music guides audience interpretation and shapes Hollywood film style.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

**FAMS 325 - Superheroes across Media (3 Credits)**
Examination of the superhero within and across media, industries, and eras addressing topics such as genre, style, seriality, remediation, franchising, and fandom.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 350, or ENGL 350.

**FAMS 328 - The Blockbuster (3 Credits)**
Examination of the post-1975 blockbuster film phenomenon with an emphasis on marketing, finance, and reception.
Prerequisite or Corequisite: C or better in FAMS 308.

**FAMS 330 - Special Topics in Non-Film Media (3 Credits)**
Intensive study of a specific topic concerning a medium or mediums other than film. May be repeated up to three times for a total of nine credit hours as content varies by title.
Prerequisites: C or better in FAMS 240 or FAMS 300.

**FAMS 332 - American Television (3 Credits)**
Examination of American television as an industry, art form, medium of social representation, and set of viewer practices.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

**FAMS 338 - Contemporary British Television Industry (3 Credits)**
Examination of industrial structures, network histories, production cultures, and regulation contexts of contemporary British television.
Prerequisite or Corequisite: C or better in FAMS 308.

**FAMS 350 - Introduction to Comics Studies (3 Credits)**
Scholarly study of the formal and aesthetic evolutions of graphic novels, comic books, and other related forms.
Cross-listed course: ENGL 350

**FAMS 360 - Special Topics in Global Media (3 Credits)**
Intensive study of a specific topic in film and media centered outside the U.S. May be repeated up to three times for a total of nine credit hours as content varies by title.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

**FAMS 361 - Middle East on Screen (3 Credits)**
Examines representations of the Middle East on screen within multiple media-making traditions and considers their aesthetic, political, and ethical dimensions.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

**FAMS 363 - Hong Kong Action Cinema (3 Credits)**
Survey of the transnational history of Hong Kong action cinema and introduction to critical approaches through which it has been studied.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

**FAMS 365 - Screening China (3 Credits)**
Survey of Chinese language cinema. Chinese film history and vocabulary with which to discuss film texts. Covers classic leftwing cinema, Hong Kong martial arts films, as well as the Hong Kong, Taiwan, and PRC New Waves. Taught in English. Films subtitled.
Cross-listed course: CHIN 365

**FAMS 380 - Special Topics in Alternative Media (3 Credits)**
Intensive study of a specific topic concerning film and media forms and/or practices outside the commercial mainstream. May be repeated as many as three times for a total of nine credit hours as content varies by title.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.
FAMS 381 - History of Experimental Film (3 Credits)
Survey of key examples and tendencies in the history of experimental film.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 383 - Documentary Studies (3 Credits)
History, theory, and practices of documentary film and media.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and program director is required.
Graduation with Leadership Distinction: GLD: Research

FAMS 470 - Genre Studies Film & Media (3 Credits)
Critical study of a popular genre (e.g., horror, science fiction, melodrama), or set of genres, in film and media. Course content varies and will be announced in the schedule of courses by title. May be repeated as topics vary.

FAMS 499 - Internship in Film and Media Studies (3 Credits)
Internship in Film and Media Studies. (Variable) Supervised professional experience working with media production, distribution, exhibition, archiving, and/or education.
Prerequisite or Corequisite: C or better in FAMS 308.

FAMS 510 - Topics in Film Media Histories (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

FAMS 511 - Special Topics in Film and Media Studies (3 Credits)
Intensive study of a specific topic in film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: ARTH 551, MART 591

FAMS 566 - Topics in US Film and Media (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

FAMS 581 - Critical Interactives (3 Credits)
Foundational techniques in multidisciplinary software development, specifically of applications designed to present sensitive, sometimes controversial, materials in ways to engender empathic awareness of the interactor.
Cross-listed course: CSCE 571

FAMS 598 - Special Topics in Global Film and Media (3 Credits)
Intensive study of a specific topic concerning films produced in a country other than the United States. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: FORL 598, MART 594
Graduation with Leadership Distinction: GLD: Global Learning

Geography
Department Website (http://www.cas.sc.edu/geog/)

Jerry Mitchell, Chair

The Department of Geography offers both the Bachelor of Arts degree and the Bachelor of Science degree, each with a major in geography. The BA degree is in general geography; the BS degree offers concentrations in physical/environmental geography, geographic information sciences, and general geography.

Minors
The Department of Geography offers a flexible general geography minor that requires 18 credit hours in geography courses. Students may not apply more than 3 credit hours from the 100 level and not more than 9 credit hours from the 200 level.

Besides the general geography minor, students may instead choose a specialized minor in the following areas: environmental geography, geographic information science, meteorology and climatology, physical geography, and regional geography. Please see a faculty advisor in the Department of Geography for more details on the requirements for specialized minors.

Programs
• Geography Minor (p. 82)
• Geography, B.A. (p. 82)
• Geography, B.S. (p. 84)

Courses
GEOG 103 - Introduction to Geography (3 Credits)
Carolina Core: GSS

GEOG 104 - Introduction to Physical Geography (3 Credits)
Basic concepts of landform geography, climatology and meteorology, and biogeography.
Carolina Core: SCI

GEOG 105 - The Digital Earth (3 Credits)
Introduction to geographic data; use of digital maps and aerial/satellite images as means of Earth observation; basics of spatial data analysis; location-based Web APPs; digital map services.
Carolina Core: ARP

GEOG 121 - Globalization and World Regions (3 Credits)
Introduction to political, economic, social, and environmental processes of global integration and regional differentiation.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

GEOG 201 - Landform Geography (4 Credits)
Hydrology, soil science, and interpretation of physical features formed by water, wind, and ice, with emphasis on environmental change. Three hours of lecture and one two-hour laboratory per week.
Carolina Core: SCI

GEOG 202 - Weather and Climate (4 Credits)
Processes that influence weather and climate patterns on the earth. Three lecture hours and one two-hour laboratory per week.
Carolina Core: SCI

GEOG 210 - Peoples, Places, and Environments (3 Credits)
Basic principles of human geography.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences
**GEOG 221 - Geography of South Carolina** (3 Credits)
An intensive regional analysis of South Carolina. Selected phenomena such as urbanization, industrialization, land use, the physical environment, and their interrelationships.

**Carolina Core:** GSS

**GEOG 223 - Geography of Latin America** (3 Credits)
Physical and human geography of Latin America.

**Cross-listed course:** LASP 331

**Carolina Core:** GSS

**Graduation with Leadership Distinction:** GLD: Global Learning

**GEOG 224 - Geography of North America** (3 Credits)
Physical and human geography of North America with emphasis on the United States.

**Carolina Core:** GSS

**GEOG 225 - Geography of Europe** (3 Credits)
Physical and human geography of Europe.

**Carolina Core:** GSS

**Graduation with Leadership Distinction:** GLD: Global Learning

**GEOG 226 - Geography of the Middle East** (3 Credits)
A regional geographic approach to the environmental, social, economic, and political aspects of the Middle East (Southwest Asia and north Africa) with emphasis on contemporary problems.

**Carolina Core:** GSS

**Graduation with Leadership Distinction:** GLD: Global Learning

**GEOG 228 - Geography of Sub-Saharan Africa** (3 Credits)
A regional approach to the physical, social, economic, and political aspects of Sub-Saharan Africa with emphasis on contemporary problems.

**Carolina Core:** GSS

**Graduation with Leadership Distinction:** GLD: Global Learning

**GEOG 285 - Introduction to Drones for Airborne Spatial Data** (3 Credits)
This course is an introduction to the use of small unmanned aerial systems (UAS) in collecting/processing imagery for mapping/information analysis. Course content includes UAS characteristics, small camera considerations, project planning and processing, and legal requirements in the United States and selected European countries.

**GEOG 310 - Topics in Geography** (3 Credits)
Selected topics of special interest in geography. May be repeated as content varies by title.

**GEOG 311 - Cultural Geography** (3 Credits)
The temporal-spatial relationship between humans and the natural environment with emphasis on the role through time of human activity in changing the face of the earth.

**GEOG 312 - Geography and Global Geopolitics** (3 Credits)
Geographic perspectives on problems in international relations. Political geographic analysis of contemporary world problems.

**Graduation with Leadership Distinction:** GLD: Global Learning

**GEOG 313 - Economic Geography** (3 Credits)
Spatial interrelation and linking of economic activities and how location affects the nature of economic systems.

**GEOG 321 - Sustainable Cities** (3 Credits)
Overview of the relationships between urbanization and environmental processes and an exploration of pathways to greater sustainability.

**GEOG 324 - Landscapes of the United States** (3 Credits)
Geographic change through time in the United States, with emphasis on evolution of the American landscape. Physical environment as modified by human intervention over time within a regional framework.

**GEOG 330 - The Geography of Disasters** (3 Credits)
The study of disasters, their triggering mechanisms (natural, human, technological), their spatial distributions from local to global scales, and associated human responses.

**GEOG 341 - Cartography** (3 Credits)
Introduction to the theory and principles of map construction including discussions of equipment and materials, lettering and symbolization, scale and generalization, data manipulation and representation. Presentation of geographic information on maps.

**GEOG 343 - Environment and Society** (3 Credits)
A geographic consideration of the interactions between environment and society. The ways in which social, economic, and cultural processes interact across local to global scales and influence environmental practices, policies, and patterns of change will be emphasized.

**GEOG 344 - Geographies of American Cities** (3 Credits)
Overview of the development of American cities from industrial period to the present. Special attention given to the political, economic, social processes that shape urban space and urban ways of life.

**GEOG 345 - Interpretation of Aerial Photographs** (3 Credits)
Theory and use of basic photo interpretation instruments and methods. Practice in acquiring and interpreting data from aerial photography for use in the physical and social sciences.

**GEOG 346 - Climate and Society** (3 Credits)
Major theories and methodologies for studying the relationship between climate and society.

**GEOG 347 - Water as a Resource** (3 Credits)
Introduction to spatial and institutional aspects of water availability, demand, and quality. Water storage/conveyance strategies and facilities. Real and perceived flood, drought hazards.

**GEOG 348 - Biogeography** (3 Credits)
Spatial distributions of plants and animals as they relate to historical biogeographic patterns and human impact on the biosphere.

**GEOG 349 - Cartographic Animation** (3 Credits)
Introduction to theories and principles of cartographic animation.

**Prerequisites:** GEOG 341 or GEOG 363.

**GEOG 360 - Geography of Wind** (3 Credits)
Fundamental principles of wind formation, measurement, and its impacts on the natural and human environment – landscape, human settlement and health, transportation, and energy.

**GEOG 363 - Geographic Information Systems** (3 Credits)
Introduction to principles and methods of geographic information systems including discussion of computers, spatial data, analysis, and display. Includes discussion of applications and hands-on experience.

**GEOG 365 - Hurricanes and Tropical Climatology** (3 Credits)

**GEOG 370 - America's National Parks** (3 Credits)
Resource, managerial, and recreational-use components of the national park system; contemporary issues, problems, and managerial alternatives.

**GEOG 371 - Air Pollution Climatology** (3 Credits)
Fundamentals, processes, and issues associated with air pollution. Emphasis is on the role of the atmosphere, how air pollution affects surface climate, and how climate and meteorology influence air quality.
GEOG 378 - World Tourism Geography (3 Credits)
Geographic analysis of tourism in America and selected world regions; demand, supply, transportation, and cultural/environmental impact of tourism and travel.

GEOG 380 - Global Geography of Human Rights (3 Credits)
Geopolitical, historical, cultural, and economic geographies of human rights around the world; issues of development, environment, health, inequality, violence.

GEOG 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

GEOG 495 - Seminar in Geography (3 Credits)
Research methods and projects; restricted to students with at least 15 hours of credit in geography. Restricted to students with at least 15 hours of credit in geography.

Graduation with Leadership Distinction: GLD: Research

Experiential Learning: Experiential Learning Opportunity

GEOG 497 - Special Topics: Service Learning in Geography (1 Credit)
Service learning experience in conjunction with designated Geography courses. Direct, hands-on service experience with an agency, voluntary organization, or community-based project. May be repeated, as content varies by title. Students enrolled in designated Geography courses by Instructor permission.

Corequisite: Must be taken simultaneously with designated Geography courses, levels 200 and above.

Experiential Learning: Experiential Learning Opportunity

GEOG 499 - Undergraduate Research (3 Credits)
Research on a significant geography problem in the local environment. Emphasis will be on the development of relatively individualized experiences in scientific investigation.

Graduation with Leadership Distinction: GLD: Research

GEOG 499 - Senior Thesis (3 Credits)
Senior research thesis on a problem of fundamental geographic significance, supervised by faculty member; must include a written final project report.

Graduation with Leadership Distinction: GLD: Research

GEOG 510 - Special Topics in Geographic Research (3 Credits)
Selected topics of special interest in geography. May be repeated as content varies by title.

GEOG 511 - Planning and Locational Analysis (3 Credits)
Scientific approaches to locational problems in urban and regional planning, including regional growth and decline, land use control, public facility location and provision, and locational efficiency.

GEOG 512 - Migration and Globalization (3 Credits)
A survey of the political, economic, and social causes and consequences of migration. Topics include immigration policy, border control, settlement patterns, transnationalism, multiculturalism, and integration. Selected contemporary and historical cases.

Prerequisites: GEOG 210.

GEOG 515 - Political Geography (3 Credits)
Concepts of space and power and their relationship to politics, elections, geopolitics, identities, law, economics, populations, and civil society.

GEOG 516 - Coastal Zone Management (3 Credits)
Analysis of the competing demands for limited resources in the coastal zone with emphasis on the role of management in the resolution of conflicts over resource use.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

GEOG 521 - Landscapes of South Carolina (3 Credits)
An examination of the factors responsible for creating the contemporary South Carolina cultural landscape.

GEOG 525 - Geographical Analysis of Transportation (3 Credits)
Analysis of transportation systems and the application of geographic tools to transportation planning.

GEOG 530 - Environmental Hazards (3 Credits)
Human and environmental contributions to the generation and management of hazards originating from extreme natural events to technological failures. Contemporary public policy issues at the national and international level.

GEOG 531 - Quantitative Methods in Geographic Research (3 Credits)
A survey of basic quantitative approaches for handling and interpreting geographically related data; univariate and bivariate procedures applicable to a variety of problems.

GEOG 535 - Hazards Analysis and Planning (3 Credits)
Examination of the geo-spatial aspects of hazards analysis and planning with specific reference to disaster preparedness, recover, mitigation, and resilience.

Prerequisites: GEOG 363 and GEOG 530, or equivalents.

GEOG 538 - Global Food Politics (3 Credits)
Political, social, and cultural landscapes of food and farming around the world; issues of agricultural production, trade, consumption, and food security.

Cross-listed course: ENVR 538

GEOG 541 - Advanced Cartography (3 Credits)
Planning, compiling, constructing, and evaluating thematic maps. Theory and practice in scribing, separation and screening, color proofing, and map reproduction. Discussions of the process of map communication and the ways the cartographer can improve that communication.

Prerequisites: GEOG 341.

GEOG 542 - Dynamic Cartography (3 Credits)
Theories and principles of interactive and animated cartographic design.

Prerequisites: GEOG 341.

GEOG 544 - Geography of the City (3 Credits)
The influence of political boundaries, historical forces, settlement patterns, and transportation processes on urban life.

GEOG 545 - Synoptic Meteorology (4 Credits)
Analysis of synoptic-scale circulation using weather maps, soundings, cross sections, thermodynamic diagrams, numerical models, and imagery.

Prerequisites: GEOG 202 or equivalent.

GEOG 546 - Applied Climatology (4 Credits)
Analysis of climate applications in natural and human-modified environments. Content may include water resources, solar energy, urban planning, air quality, agriculture, and tourism. Course work includes lab and field experimentation.
GEOG 547 - Fluvial Geomorphology (3 Credits)
Introduction to landforms and processes associated with flowing water at the earth's surface. Hydrology, sedimentology, and theories of channel formation and drainage basin evolution.

GEOG 549 - Water and Watersheds (3 Credits)
Spatial variation of hydrology, water quality, and water-related hazards, including runoff generation, soil erosion, sedimentation, and flood hazards. Emphasizes a watershed perspective using geographic data and methods.
Prerequisites: GEOG 347, GEOL 371, or ECIV 360.

GEOG 551 - Principles of Remote Sensing (3 Credits)
Introduction to remote sensing. A variety of imaging systems including black and white, color, and high altitude color infrared photographs, LANDSAT, thermal infrared, and active microwave. Use of remote sensing for studying the extra-terrestrial environment and earth weather systems.

GEOG 552 - LiDARgrammetric and Photogrammetric Digital Surface Mapping (3 Credits)
Introduction to fundamental concepts used to map topographic and planimetric Earth surface features using digital LiDAR (LiDARgrammetric) and digital soft-copy photogrammetry (Photogrammetric).
Prerequisites: GEOG 363 or GEOG 341 or GEOG 345 or GEOG 551 or GEOG 563.

GEOG 554 - Spatial Programming (3 Credits)
Computer programming of spatial problems; spatial statistical analysis, interactive graphics, and computer maps.

GEOG 556 - WebGIS (3 Credits)
Web-based Geographic Information Systems (WebGIS), including concepts and principles of WebGIS, web programming fundamentals, web-based mapping techniques, and developing WebGIS applications.
Prerequisites: GEOG 363.

GEOG 559 - Source Materials for Geographic Instruction (3 Credits)
Introduction to selected materials available for all levels of instruction in geography. Emphasis on the substantive nature of the materials.
Cross-listed course: EDSE 505

GEOG 560 - Contemporary Issues in Geography Education (3 Credits)
Key concepts of geography and current approaches to teaching geography with specific attention to classroom materials, curriculum reform, cross-curricular integration, learning theory, and the use of geospatial/instructional technology.

GEOG 561 - Advanced Geographic Information Systems (3 Credits)
Theory and application of geographic information systems including discussions of automated input, storage, analysis, integration, and display of spatial data. Use of an operational geographic information system.

GEOG 563 - GIS-Based Modeling (3 Credits)
Geographical information systems for modeling physical/human processes in space and time using raster and vector data. Cartographic modeling concepts, embedded models, and GIS-model coupling.

GEOG 564 - Geographic Information System (GIS) Databases and Their Use (3 Credits)
Representation, construction, maintenance, and analysis of spatial data in a geographic information system (GIS) database.
Prerequisites: GEOG 363 or GEOG 341 or GEOG 551 or GEOG 563.

GEOG 565 - Climate Studies (3 Credits)
Observations and theories of climatic change and variability as they occur at different space and time scales. Projections of future climates. Techniques used in climatic change research and impact analysis.
Prerequisites: GEOG 202 or equivalent.

GEOG 566 - Microclimatology (4 Credits)
Field techniques and processes in the atmospheric boundary layer including radiation, soil heat fluxes, turbulence, momentum, latent and sensible heat fluxes, moisture, and evaporation.
Prerequisites: GEOG 202.

GEOG 567 - Remote Sensing and Global Change (3 Credits)
Remote sensing applications in environmental change and conservation, including land cover classification, and change detection.
Prerequisites: GEOG 551 or equivalent.
GEOG 581 - Globalization and Cultural Questions (3 Credits)
This course examines cultural understandings of and responses to globalization, examining topics such as its history and theories, migration, economic integration and inequality, identity, social movements, and the environment. 
**Cross-listed course:** ANTH 581

Graduation with Leadership Distinction: GLD: Global Learning

GEOG 590 - Beach-Dune Interactions (3 Credits)
Influence of wind on coastal systems, with emphasis on nearshore currents, sediment transport and bedforms, aeolian transport, and dunes. Minimum Junior standing required.
**Cross-listed course:** MSCI 590

GEOG 595 - Internship in Geography (1-6 Credits)
Internship in government agencies, private-sector businesses, and non-profit organizations under the joint supervision of sponsor and departmental. A maximum of three credits may be applied to undergraduate Geography major or to Geography master’s degree. May be repeated to a maximum of six credits.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Internships

**Experiential Learning:** Experiential Learning Opportunity

### Geography Minor

#### Minor Requirements (18 Hours)
The Department of Geography offers a flexible General Geography minor that requires 18 credit hours in geography courses. Students may not apply more than 3 credit hours from the 100-level and not more than 9 credit hours from the 200-level.

#### Geography, B.A.

**Learning Outcomes**
- Students will demonstrate the ability to communicate in written and oral forms. These outcomes are evaluated together because they are connected for our students who often are in careers where their written work is the substance of their oral presentations. We see the linkage of the two to be the most important aspect.
- Students will demonstrate understanding of and the use of one geographical technique such as GIS, remote sensing, cartography, or spatial statistics.
- Students will demonstrate their knowledge of the central themes within the discipline.
- Students will be prepared for careers in the field or for graduate study in geography.

**Admissions**

**Entrance Requirements**
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

### Degree Requirements (120 hours)

#### Program of Study

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<th>Requirements</th>
<th>Credit Hours</th>
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<td>4. Major Requirements</td>
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#### 1. Carolina Core Requirements (32-44 hours)

**CMW – Effective, Engaged, and Persuasive Communication:** Written (6 hours)
*must be passed with a grade of C or higher*

- any CC-CMW courses (p. 743)

**ARP – Analytical Reasoning and Problem Solving (6-8 hours)**
- any CC-ARP courses (p. 743)

**SCI – Scientific Literacy (8 hours)**
- Two 4-credit hour CC-SCI courses (p. 743)

**GFL – Global Citizenship and Multicultural Understanding:** Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

*It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.*

**GHS – Global Citizenship and Multicultural Understanding:** Historical Thinking (3 hours)
- any CC-GHS course (p. 743)
GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

Choose at least 1 of the following to fulfill a Carolina Core requirement

must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEOG 103</td>
<td>Introduction to Geography</td>
<td>3</td>
</tr>
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<td>Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 210</td>
<td>Peoples, Places, and Environments</td>
<td>3</td>
</tr>
</tbody>
</table>

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

• only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or

• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)

Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

• Three hours of Social Science
• Nine hours of Fine Arts or Humanities

3. Program Requirements (34-49 hours)

Cognate or Minor (12-18 hours)

Cognate

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences. (p. 303)

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 12 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).
Electives (16-37 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Note: 4-25 hours of electives will be needed to reach hours to graduate, if completing the B.A. with Distinction.

4. Major Requirements (24 hours)
a minimum grade of C is required in all major courses

Major Courses (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 495</td>
<td>Seminar in Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3
- GEOG 341 Cartography
- GEOG 345 Interpretation of Aerial Photographs
- GEOG 363 Geographic Information Systems
- GEOG 551 Principles of Remote Sensing

Total Credit Hours 6

Major Electives (18 hours)

• Select 5-6 GEOG courses with advisor's approval that are tailored towards a topical, methodological, or geographical focus.

Note: Majors may take up to 9 hours of GEOG courses at the 200-level to fulfill major requirements; 6 hours must be at the 500-level. GEOG 595 can be used to fulfill up to 3 hours of geography elective credit, but not the 500-level requirement. Courses used to fulfill Carolina Core or College Requirements may not be used again to fulfill these requirements.

B.A. with Distinction in Geography (36 hours)

Available to students majoring in Geography who wish to participate in significant research activities in their major field under the supervision of a faculty mentor.

Prerequisite
A minimum GPA of 3.50 in the major, and 3.30 cumulative, is required to apply for a BA or BS with Distinction in Geography.

Requirements
• Students must submit a written application for the BA with Distinction in Geography at least eight months before completion of the degree.
• Written sponsorship agreement from a Geography faculty mentor on file in the department.
• An established thesis committee consisting of a tenure-track faculty member in Geography and at least one other tenure-track or research faculty member at the University of South Carolina.
• A written thesis demonstrating significant original work and approved by the thesis committee.
• A public presentation of the Senior Thesis research.
• Successful fulfillment of all requirements below with a minimum GPA of 3.50 in the major and 3.30 cumulative.
• General major requirements, plus 12 additional credit hours including:
  • A minimum of nine credit hours in GEOG 498, or any GEOG 500-level courses (9 hours)
  • GEOG 499

Note: South Carolina Honors College students satisfying the above requirements will graduate with "Honors from the South Carolina Honors College" and with "Distinction in Geography."

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Geography, B.A.

Learning Outcomes

• Students will demonstrate the ability to communicate in written and oral forms. These outcomes are evaluated together because they are connected for our students who often are in careers where their written work is the substance of their oral presentations. We see the linkage of the two to be the most important aspect.
• Students will demonstrate understanding of and the use of one geographical technique such as GIS, remote sensing, cartography, or spatial statistics.
• Students will demonstrate their knowledge of the central themes within the discipline.
• Students will be prepared for careers in the field or for graduate study in geography.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary
Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>33-49</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>24-25</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- MATH 122 or MATH 141
- MATH 142 or MATH 170 or MATH 172

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

Choose at least 1 of the following to fulfill a Carolina Core requirement

must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 103</td>
<td>Introduction to Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 104</td>
<td>Introduction to Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 105</td>
<td>The Digital Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 121</td>
<td>Globalization and World Regions</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 201</td>
<td>Landform Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 202</td>
<td>Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 210</td>
<td>Peoples, Places, and Environments</td>
<td>3</td>
</tr>
</tbody>
</table>

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 201</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course.
course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Three hours of Fine Arts or Humanities

3. Program Requirements (33-49 hours)
Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences. (p. 303)

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (15-37 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Note: 4-25 hours of electives will be needed to reach hours to graduate, if completing the B.S. with Distinction.

4. Major Requirements (24-25 hours)
A minimum grade of C is required in all major courses.

Concentrations (24-25 hours)
Students must choose one of the following three concentrations:

General Geography (24 hours)
At least two courses for the major must be from the 500-level. GEOG 595 can be used to fulfill up to 3 hours of geography elective credit, but not the 500-level requirement.

Concentration Course Title Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 495</td>
<td>Seminar in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 595</td>
<td>Geography Elective: Select two courses at the 200-level or above with advisor's approval.</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 285</td>
<td>Introduction to Drones for Airborne Spatial Data</td>
<td>15</td>
</tr>
<tr>
<td>GEOG 310</td>
<td>Topics in Geography</td>
<td></td>
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<tr>
<td>GEOG 311</td>
<td>Cultural Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 312</td>
<td>Geography and Global Geopolitics</td>
<td></td>
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<tr>
<td>GEOG 313</td>
<td>Economic Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 321</td>
<td>Sustainable Cities</td>
<td></td>
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<tr>
<td>GEOG 324</td>
<td>Landscapes of the United States</td>
<td></td>
</tr>
<tr>
<td>GEOG 330</td>
<td>The Geography of Disasters</td>
<td></td>
</tr>
<tr>
<td>GEOG 341</td>
<td>Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 343</td>
<td>Environment and Society</td>
<td></td>
</tr>
<tr>
<td>GEOG 344</td>
<td>Geographies of American Cities</td>
<td></td>
</tr>
<tr>
<td>GEOG 345</td>
<td>Interpretation of Aerial Photographs</td>
<td></td>
</tr>
<tr>
<td>GEOG 346</td>
<td>Climate and Society</td>
<td></td>
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<tr>
<td>GEOG 347</td>
<td>Water as a Resource</td>
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<tr>
<td>GEOG 348</td>
<td>Biogeography</td>
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<tr>
<td>GEOG 349</td>
<td>Cartographic Animation</td>
<td></td>
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<tr>
<td>GEOG 360</td>
<td>Geography of Wind</td>
<td></td>
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<tr>
<td>GEOG 363</td>
<td>Geographic Information Systems</td>
<td></td>
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<tr>
<td>GEOG 365</td>
<td>Hurricanes and Tropical Climatology</td>
<td></td>
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<tr>
<td>GEOG 370</td>
<td>America's National Parks</td>
<td></td>
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<tr>
<td>GEOG 371</td>
<td>Air Pollution Climatology</td>
<td></td>
</tr>
<tr>
<td>GEOG 378</td>
<td>World Tourism Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 510</td>
<td>Special Topics in Geographic Research</td>
<td></td>
</tr>
<tr>
<td>GEOG 511</td>
<td>Planning and Locational Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 512</td>
<td>Migration and Globalization</td>
<td></td>
</tr>
<tr>
<td>GEOG 515</td>
<td>Political Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 516</td>
<td>Coastal Zone Management</td>
<td></td>
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<tr>
<td>GEOG 521</td>
<td>Landscapes of South Carolina</td>
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</tr>
<tr>
<td>GEOG 525</td>
<td>Geographical Analysis of Transportation</td>
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</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
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<tr>
<td>GEOG 530</td>
<td>Environmental Hazards</td>
<td></td>
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<tr>
<td>GEOG 531</td>
<td>Quantitative Methods in Geographic Research</td>
<td></td>
</tr>
<tr>
<td>GEOG 535</td>
<td>Hazards Analysis and Planning</td>
<td></td>
</tr>
<tr>
<td>GEOG 541</td>
<td>Advanced Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 542</td>
<td>Dynamic Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 551</td>
<td>Principles of Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GEOG 552</td>
<td>LiDARgrammetric and Photogrammetric Digital Surface Mapping</td>
<td></td>
</tr>
<tr>
<td>GEOG 554</td>
<td>Spatial Programming</td>
<td></td>
</tr>
<tr>
<td>GEOG 556</td>
<td>WebGIS</td>
<td></td>
</tr>
<tr>
<td>GEOG 558</td>
<td>Satellite Mapping and the Global Positioning System</td>
<td></td>
</tr>
<tr>
<td>GEOG 561</td>
<td>Contemporary Issues in Geography Education</td>
<td></td>
</tr>
<tr>
<td>GEOG 562</td>
<td>Advanced Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 563</td>
<td>GIS-Based Modeling</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Geographic Information System (GIS) Databases and Their Use</td>
<td></td>
</tr>
<tr>
<td>GEOG 565</td>
<td>Social Aspects of Environmental Planning and Management</td>
<td></td>
</tr>
<tr>
<td>GEOG 566</td>
<td>Long-Term Environmental Change</td>
<td></td>
</tr>
<tr>
<td>GEOG 567</td>
<td>Human Dimensions of Global Environmental Change</td>
<td></td>
</tr>
<tr>
<td>GEOG 568</td>
<td>Geography of Wind</td>
<td></td>
</tr>
<tr>
<td>GEOG 569</td>
<td>Development and the Environment</td>
<td></td>
</tr>
<tr>
<td>GEOG 570</td>
<td>Geography of Public Land and Water Policy</td>
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<tr>
<td>GEOG 571</td>
<td>Microclimatology</td>
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</tr>
<tr>
<td>GEOG 573</td>
<td>Climatic Change and Variability</td>
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</tr>
<tr>
<td>GEOG 575</td>
<td>Digital Techniques and Applications in Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GEOG 576</td>
<td>Geographic Information System (GIS) Databases and Their Use</td>
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<td>GEOG 577</td>
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<td>GEOG 578</td>
<td>Long-Term Environmental Change</td>
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<tr>
<td>GEOG 579</td>
<td>Human Dimensions of Global Environmental Change</td>
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<tr>
<td>GEOG 581</td>
<td>Geography of Wind</td>
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<tr>
<td>GEOG 582</td>
<td>Development and the Environment</td>
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<tr>
<td>GEOG 583</td>
<td>Geography of Public Land and Water Policy</td>
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<td>GEOG 584</td>
<td>Microclimatology</td>
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<td>GEOG 585</td>
<td>Climatic Change and Variability</td>
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<td>GEOG 586</td>
<td>Digital Techniques and Applications in Remote Sensing</td>
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<td>GEOG 588</td>
<td>Social Aspects of Environmental Planning and Management</td>
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<td>GEOG 589</td>
<td>Long-Term Environmental Change</td>
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</tr>
<tr>
<td>GEOG 590</td>
<td>Human Dimensions of Global Environmental Change</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours: 24-25**

1. GEOG 341, GEOG 345 or GEOG 531 may be used if not used above.

**Physical/Environmental Geography (24 hours)**

At least two courses for the major must be from the 500-level. GEOG 595 can be used to fulfill up to 3 hours of geography elective credit, but not the 500-level requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 341</td>
<td>Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 342</td>
<td>Dynamic Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 343</td>
<td>Principles of Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GEOG 344</td>
<td>LiDARgrammetric and Photogrammetric Digital Surface Mapping</td>
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<tr>
<td>GEOG 345</td>
<td>Quantitative Methods in Geographic Research</td>
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<td>GEOG 347</td>
<td>WebGIS</td>
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</tr>
<tr>
<td>GEOG 348</td>
<td>Satellite Mapping and the Global Positioning System</td>
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</tr>
<tr>
<td>GEOG 350</td>
<td>Contemporary Issues in Geography Education</td>
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<tr>
<td>GEOG 351</td>
<td>Advanced Geographic Information Systems</td>
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<tr>
<td>GEOG 352</td>
<td>GIS-Based Modeling</td>
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<tr>
<td>GEOG 353</td>
<td>Geographic Information System (GIS) Databases and Their Use</td>
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<tr>
<td>GEOG 354</td>
<td>Social Aspects of Environmental Planning and Management</td>
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<tr>
<td>GEOG 355</td>
<td>Long-Term Environmental Change</td>
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</tbody>
</table>

**Total Credit Hours: 18**

1. Select 5-6 courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 330</td>
<td>The Geography of Disasters</td>
<td></td>
</tr>
<tr>
<td>GEOG 331</td>
<td>Environment and Society</td>
<td></td>
</tr>
<tr>
<td>GEOG 332</td>
<td>Climate and Society</td>
<td></td>
</tr>
<tr>
<td>GEOG 333</td>
<td>Water as a Resource</td>
<td></td>
</tr>
<tr>
<td>GEOG 334</td>
<td>Biogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 335</td>
<td>Geography of Wind</td>
<td></td>
</tr>
<tr>
<td>GEOG 336</td>
<td>Hurricanes and Tropical Climatology</td>
<td></td>
</tr>
<tr>
<td>GEOG 337</td>
<td>America's National Parks</td>
<td></td>
</tr>
<tr>
<td>GEOG 338</td>
<td>Air Pollution Climatology</td>
<td></td>
</tr>
<tr>
<td>GEOG 339</td>
<td>Coastal Zone Management</td>
<td></td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Environmental Hazards</td>
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<td>GEOG 341</td>
<td>Hazards Analysis and Planning</td>
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<td>GEOG 342</td>
<td>Applied Climatology</td>
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<td>GEOG 343</td>
<td>Water and Watersheds</td>
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<tr>
<td>GEOG 344</td>
<td>Social Aspects of Environmental Planning and Management</td>
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<td>GEOG 345</td>
<td>Long-Term Environmental Change</td>
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</tbody>
</table>
Global Studies

Department Website (https://www.sc.edu/study/colleges_schools/artsandsciences/global_studies/)

The Global Studies Program is housed in the College of Arts and Sciences and features the Bachelor of Arts in Global Studies, established in 2016. This degree program encourages interdisciplinary study of global issues while promoting cross-cultural perspectives.

Students in the Global Studies Degree program will focus on one of four themes: Global Health, Global Conflict and Security, Global Sustainability and Development, and Global Cultures. These themes are then applied to one of six world regions: Africa, Asia, Europe, Latin America, Middle East and North Africa, and Russia & Eurasia. The major also features a Leadership in the Global Economy concentration.

Courses

GLST 220 - Introduction to Global Studies Through Literature (3 Credits)
Given that literature represents real policies and practices in the contemporary world and our ethical responsibility as global citizens, the course will focus on literature from different periods, nations, and regions across the world in order to better understand the way human experiences and different cultures relate. All literature will be read and taught in English.

GLST 300 - Introduction to International Development (3 Credits)
Critical, historical, and theoretical introduction to modern development practice. Includes extended discussions of contemporary best practices in the field.

GLST 308 - Global Media Industries (3 Credits)
Provides the foundation for the study of globalized film and media industries.

Cross-listed course: FAMS 308

GLST 369 - History of Capitalism 1: Ancient and Medieval World (3 Credits)
History of "capitalist" economic behavior and culture in various premodern societies: the Ancient Middle East, Classical Greece, the Roman Empire, early Islamic society, medieval Christian and Islamic states, the Mongol period and the era of global expansionism; evaluation of competing theories about premorden economic life and the meaning of "capitalism"

GLST 370 - History of Capitalism From the Industrial Revolution to the Global Economy (3 Credits)
A history of capitalism and its evolving definitions in Europe from the Middle Ages to the 20th Century, including its role in agriculture, mechanical industry, international trade, and colonialism and domination.

GLST 391 - Topics in Global Studies (3 Credits)
Selected topics in Global Studies. May be repeated with a change in topic. May be taken three times for credit.

GLST 490 - Global Studies Internship (1-3 Credits)
Academic counterpart to a professional work experience in which global or international affairs play a central role. Provides an introduction to foreign affairs and intercultural interactions in a working environment. Introduction to career possibilities for a student trained in global studies. Global Studies major with 3.0 or better GPA and completion of at least 45 credits.

Prerequisites: Two courses from the following: ANTH 102; GEOG 121; GEOG 210; LING 101; POLI 101; RELG 101.
History

Department Website (https://sc.edu/study/colleges_schools/artsandsciences/history/index.php/front-page/)

Jessica Elfenbein, Chair

The Department of History offers the Bachelor of Arts degree with a major in History and an 18-credit minor. The major offers undergraduates a high degree of flexibility in choosing their pathway through the major. Upper division (300 and 400-level) classes have roughly the same expectations and rigor; these numbers denote geography, not intensity. Our 400-level classes explore the Americas while the 300-level classes investigate other parts of the globe. Undergraduate majors are required to take a gateway course (HIST 300), a senior capstone seminar (HIST 497/498), and a handful of electives that ensure broad exposure to different time periods and geographic areas.

Beyond these requirements, students can choose among electives that interest them or decide to declare a concentration within the major that investigates global connections (e.g., War and International Relations), focuses on one region (e.g., Latin America), or explores a theme historically (e.g., Media and Digital History). To graduate with Distinction in History, students must maintain a high grade-point average, complete additional credit hours, and undertake supplementary research and writing on a senior project that earns the mark of “distinction.” Students who are studying to be secondary social science teachers may complete the BA in History and the Masters of Teaching (MT) program in just over five years.

The Department has one of the country’s oldest and most esteemed graduate public history programs. At the undergraduate level, students may choose from an array of courses in public history, some of which include an internship in a museum, archive, or public institution. We also offer an undergraduate concentration in public history.

Programs

• History Minor (p. 95)
• History, B.A. (p. 95)

Courses

HIST 101 - European Civilization from Ancient Times to the Mid-17th Century (3 Credits)
The rise and development of European civilization from its Mediterranean origins through the Renaissance and Reformation.

Carolina Core: GHS

HIST 102 - European Civilization from the Mid-17th Century to the Present (3 Credits)
European development and expansion from the mid-17th century to the present.

Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 103 - Introduction to South Asian History (3 Credits)
Political, cultural, and economic forces that have conditioned the development of institutions and ideas in South Asia.

Carolina Core: GHS

HIST 104 - Introduction to the Civilization of the Islamic Middle East (3 Credits)
An analysis which treats the major cultural elements of traditional Islamic civilization and then concentrates upon the reactions of the Arabs, Turks, and Iranians to the problems of adjusting to the modern world.

Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 105 - Introduction to East Asian Civilization (3 Credits)
The evolution of social, political, and cultural patterns in East Asia, with emphasis on the development of philosophical, religious, and political institutions and their relationship to literary and artistic forms in China and Japan.

Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 106 - Introduction to African History (3 Credits)
An examination of several traditional sub-Saharan African societies and of their political and economic transformation in the modern, colonial, and post-independence periods.

Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 107 - Introduction to Ancient Near Eastern Civilization (3 Credits)
The political, social, religious, economic, military, and intellectual development of Ancient Egypt, Mesopotamia, and adjoining areas from the origins of civilization until the seventh century A.D.

HIST 108 - Science and Technology in World History (3 Credits)
The development of science and technology and their roles in world civilizations from antiquity to the present.

Carolina Core: GHS, VSR

HIST 109 - Introduction to Latin American Civilization (3 Credits)
A discussion of the political, cultural, and economic forces which have conditioned the development of institutions and ideas in Spanish and Portuguese America.

Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 110 - Conquest, Colonization, and Captivity: A Cultural History of the Americas from 1441 to 1888 (3 Credits)
Comparative examination of conquest, colonization, and human captivity in the history, cultural values, and social ethics of European, African, and Indigenous civilizations in the Americas, 1441-1888.

Carolina Core: GHS, VSR

HIST 111 - United States History to 1865 (3 Credits)
A general survey of the United States from the era of discovery to 1865, emphasizing major political, economic, social, and intellectual developments.

Carolina Core: GHS

HIST 112 - United States History since 1865 (3 Credits)
A general survey of the United States from 1865 to the present, emphasizing major political, economic, social, and intellectual developments. Honors sections are available for students in the honors program.

Carolina Core: GHS

HIST 201 - American Founding Documents (3 Credits)
Introduction to Declaration of independence, Constitution, Federalist Papers, Bill of Rights, landmark Supreme Court cases and constitutional amendments; exploration of these texts’ historical context and debates about their meaning.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>HIST 213</td>
<td>History of the American West</td>
<td>3</td>
<td>The history and development of an American region, “the West,” through the narratives of its diverse people and the effects of its complex geography.</td>
</tr>
<tr>
<td>HIST 214</td>
<td>The Practice of Public History</td>
<td>3</td>
<td>Introduction to the field of public history. Explores the challenges of portraying history in museums, parks, and other public history venues. Carolina Core: GHS</td>
</tr>
<tr>
<td>HIST 215</td>
<td>History of the Devil</td>
<td>3</td>
<td>A survey of the beliefs and practices associated with the demonic and the Devil from c 500 B.C.E. to the 20th century. Cross-listed course: RELG 206</td>
</tr>
<tr>
<td>HIST 300</td>
<td>Introduction to the History Major: The Historian’s Craft</td>
<td>3</td>
<td>The nature of historical evidence, the formulation of historical questions, the process of historical research, and the construction of historical arguments using primary sources and secondary materials. Graduation with Leadership Distinction: GLD: Research</td>
</tr>
<tr>
<td>HIST 301</td>
<td>The Ancient Near East to 323 B.C.</td>
<td>3</td>
<td>The formation of ancient Near Eastern cultures, the ultimate synthesis of these cultures and the resulting establishment of the Near East as an historical entity.</td>
</tr>
<tr>
<td>HIST 302</td>
<td>Greek History and Civilization to 146 B.C.</td>
<td>3</td>
<td>The origins and development of Greek civilization in its political, economic, social, and cultural aspects with special attention being given to the early and late classical periods and the Hellenistic Age.</td>
</tr>
<tr>
<td>HIST 303</td>
<td>Roman Republic and Early Empire</td>
<td>3</td>
<td>The origins of Rome and shaping of its republican government, the spread of Roman rule in Italy and across the Mediterranean, the establishment of the principate and formation of one diverse imperial society and culture.</td>
</tr>
<tr>
<td>HIST 304</td>
<td>Late Antiquity: Imperial Rome to Islam</td>
<td>3</td>
<td>Political, social and religious transformation of the Mediterranean world, 2nd to the 8th century, including the rise of Christianity, the decline of Roman power, and the rise of Islam.</td>
</tr>
<tr>
<td>HIST 305</td>
<td>Greece and Rome in Film and Popular Culture</td>
<td>3</td>
<td>Representations of antiquity in cinema, television, and other contemporary media, with emphasis on Hollywood’s reception of Greek and Roman history. Cross-listed course: CLAS 305</td>
</tr>
<tr>
<td>HIST 306</td>
<td>Medieval Europe, ca. 300-1492</td>
<td>3</td>
<td>Topics include the formation of monarchies, the rise of Christianity, learning and universities, knighthood and social orders, and heresy and crusades.</td>
</tr>
<tr>
<td>HIST 307</td>
<td>Family and Society in Europe, c. 1200-1700</td>
<td>3</td>
<td>Explores the concerns and importance of families in pre-modern Europe. Topics include household furnishings and management, social classes, gender roles, family law, marriages, business, children, feuds, and sexuality. Graduation with Leadership Distinction: GLD: Global Learning</td>
</tr>
<tr>
<td>HIST 308</td>
<td>Magic and Witchcraft in Europe, c. 1200-1700</td>
<td>3</td>
<td>Practices of, reactions against, and ideas surrounding magic and witchcraft during the late Middle Ages and the time of Europe’s “Great Witch Craze”.</td>
</tr>
<tr>
<td>HIST 309</td>
<td>Age of Renaissance</td>
<td>3</td>
<td>Social, cultural, and artistic movements in Italy and northern Europe from the Black Death (c. 1350) to religious reforms and revolutions (c. 1520).</td>
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<tr>
<td>HIST 310</td>
<td>Age of the Reformation</td>
<td>3</td>
<td>Religious, social, and political reforms from the rise of local religious protests (c. 1450) to the crisis of the 17th century. The rise of Protestantism and reactions in Catholicism. Graduation with Leadership Distinction: GLD: Research</td>
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<tr>
<td>HIST 311</td>
<td>The Age of Absolutism, 1648-1789</td>
<td>3</td>
<td>A survey of European political, economic, and intellectual development from the age of Louis XIV to the eve of the French Revolution.</td>
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<tr>
<td>HIST 312</td>
<td>French Revolution and Napoleon</td>
<td>3</td>
<td>The changes in France and Europe during the revolutionary decade, the rise of Napoleon, and the establishment of French hegemony over the Continent.</td>
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<tr>
<td>HIST 313</td>
<td>The Enlightenment</td>
<td>3</td>
<td>Intellectual and cultural history of the Enlightenment with particular attention to its relationship with the colonial world and its challenges to eighteenth-century states. Readings focused on primary sources.</td>
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<tr>
<td>HIST 314</td>
<td>Video Games and History</td>
<td>3</td>
<td>History in video games; comparison of selected games with historical scholarship, to assess the validity of the games’ presentations of historical developments and the value of games to the understanding of history.</td>
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<tr>
<td>HIST 316</td>
<td>Nineteenth-Century Europe</td>
<td>3</td>
<td>Political, social, economic, and intellectual developments from 1815-1900, which brought European culture to its zenith and contributed to Europe’s global domination. Graduation with Leadership Distinction: GLD: Global Learning</td>
</tr>
<tr>
<td>HIST 317</td>
<td>Contemporary Europe from World War I to World War II</td>
<td>3</td>
<td>The Great War, revolution, and reconstruction; the rise of authoritarian and totalitarian regimes and the coming of World War II. Graduation with Leadership Distinction: GLD: Global Learning</td>
</tr>
<tr>
<td>HIST 318</td>
<td>Europe from World War II to the Present</td>
<td>3</td>
<td>The Second World War and its origins; the Cold War; European recovery; a divided continent and Europe in the Global Era. Graduation with Leadership Distinction: GLD: Global Learning</td>
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<tr>
<td>HIST 320</td>
<td>The History of Great Britain</td>
<td>3</td>
<td>A survey of the political, social, economic, and cultural development of the British Isles from Anglo-Saxon times to the present. First semester: to the Restoration of 1660; second semester: since 1660. Graduation with Leadership Distinction: GLD: Global Learning</td>
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</tbody>
</table>
HIST 321 - The History of Great Britain (3 Credits)
A survey of the political, social, economic, and cultural development of the British Isles from Anglo-Saxon times to the present. First semester: to the Restoration of 1660; second semester: since 1660.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 322 - The British Empire (3 Credits)
Examination of the British Empire, tracing various historical themes as regions of world fell under British control, with particular attention to Ireland, India, and sub-Saharan Africa (especially South Africa) in the 17th Century-20th Century.

HIST 324 - Slavery and Freedom in the Ancient and Medieval World (3 Credits)
Exploration of varied forms of servitude in the ancient and medieval Mediterranean; examination of human bondage in the Hebrew Bible, ancient Greece, Roman society, late antique religious teachings, and medieval Christian and Islamic societies; study of ancient slavery in modern political debates, historians’ writings, and television and film.

HIST 325 - Byzantine History: 4th to 11th Centuries (3 Credits)
The political, religious, and military developments within the Eastern Empire including its influence on Western and Slavonic Europe and Islam.

HIST 326 - Byzantine History: 11th to 15th Centuries (3 Credits)
The political and military developments within the Eastern Empire from the invasion of the Seljuk Turks to its final destruction by the Ottoman Turks.

HIST 327 - The Crusades (3 Credits)
Holy war and realpolitik in Mediterranean East-West relations from the 10th through the 15th centuries with emphasis on the role of the crusades in the cultural formation, development, and international relations of East and West.

HIST 328 - Nineteenth-Century Britain (3 Credits)
The political, economic, and social developments in Great Britain and Ireland during the Victorian Age.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 329 - Modern and Contemporary Britain (3 Credits)
The political, economic, and social developments in Great Britain and Ireland during the 20th century.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 331 - France Since 1815 (3 Credits)
A political and social history from the Bourbon Restoration to the present.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 333 - The History of Russia from the Earliest Times to the Mid-19th Century (3 Credits)
The earliest life on the steppe, the Kievan State, the foundations of Moscow, and the Russian empire to the reign of Nicholas I.

HIST 335 - The History of Modern Russia and the Soviet Union (3 Credits)
The decline of Imperial Russia, the Revolution of 1917, Lenin, Stalin, and the Soviet Union since Stalin.

HIST 336 - Russian and Soviet Diplomatic History (3 Credits)
Imperial and Soviet foreign and military policies in the 19th and 20th centuries.

HIST 338 - Modern Germany (3 Credits)
A survey of German history including political, cultural, social, and economic developments from unification in 1871 to the present.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 342 - The Slavs in History (3 Credits)
An introductory survey of the civilization of the Slavic peoples. The historical traditions and culture of the peoples that occupy much of the Eurasian continent.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 343 - The Fall of the Eastern European Empires (3 Credits)
Nineteenth-century eastern European states and peoples; the political and social forces leading to World War I.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 344 - Eastern Europe Since WWI (3 Credits)
Survey of states in East-central and Southeastern Europe. Problems of national identity, modernization, and small state politics. Impact of WWII, the Cold war, the fall of communism, and the return to pluralism.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 347 - The Middle East in Modern Times (3 Credits)
The impact of modern civilization upon the Middle East, including the history of the Arab, Turkish, Iranian, and Israeli segments of the Middle East during the 19th and 20th centuries.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 348 - North Africa from Colonialism to Revolution: 1830-1962 (3 Credits)
A survey of French North Africa (Morocco, Algeria, and Tunisia) and Libya under colonial rule. The creation, development, and triumph of the nationalist movements, with particular attention to Algeria and its revolution.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 349 - The Contemporary Middle East and North Africa (3 Credits)
Political, social, and economic history of the Middle East and North Africa in the years since World War II.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 350 - Saving Africa: Development and Humanitarianism in Historical Perspective (3 Credits)
Exploration of how and why Africa is often represented as helpless, the colonial origins of common patterns of development and humanitarianism, and other possible models for these processes.

HIST 351 - Africa to 1800 (3 Credits)
Social, cultural, economic, and political developments, focusing on internally and externally generated changes.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 352 - Africa since 1800 (3 Credits)
Commercial and religious revolutions of the 19th century; imposition and ending of formal colonial rule, and post-colonial issues.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 353 - Problems in the History of Africa South of the Sahara (3 Credits)
Independent readings and written papers on appropriate topics.

HIST 354 - Modern East Asia (3 Credits)
Surveys modern development of East Asia from 1800 to the present.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 355 - Late Imperial China (3 Credits)
Political, economic, social, and intellectual transformations of late imperial China from the Ming dynasty (1368-1644) through the last empire of China, the Qing dynasty (1644-1911).
HIST 356 - China Since 1949 (3 Credits)
Introduction to the major social, economic, and political changes in China from the Communist Revolution in 1949 to the present.

HIST 357 - Japan to 1800: Aristocrats and Warriors (3 Credits)
The growth of the ancient state and the evolution of the samurai class and its political authority.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 358 - Japan since 1800 (3 Credits)
The development of modern Japan: political evolution, industrial growth, social change, war, defeat, and occupation.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 360 - Into the Wild: Global Conservation since 1800 (3 Credits)
Global and comparative environmental-historical investigation of the ecological, socioeconomic, and cultural significance of wilderness protection, nature conservation, national parks, and nature tourism; field excursions required.

HIST 365 - East Africa and the Indian Ocean World (3 Credits)
East Africans' contributions to an Indian ocean World that transcends single nation-states (stretching from Mozambique and Somalia to the Middle east, India and China) from the deep past to the present, including sections on "piracy," Islam, slavery, race, and gender.

HIST 367 - Gandhi and the Nationalist Movement in India (3 Credits)
Development of anticolonial thought and political movements in British India from the early nineteenth century onwards. Focuses on Mohandas K. Gandhi, his critics, and Gandhi's continuing global legacy.

HIST 369 - History of Capitalism 1: Ancient and Medieval Worlds (3 Credits)
History of "capitalist" economic behavior and culture in various premodern societies: the Ancient Middle East, Classical Greece, the Roman Empire, early Islamic society, medieval Christian and Islamic states, the Mongol period and the era of global expansionism; evaluation of competing theories about premodern economic life and the meaning of "capitalism"

HIST 370 - History of Capitalism 2: From the Industrial Revolution to the Global Economy (3 Credits)
A history of capitalism and its evolving definitions in Europe from the Middle Ages to the 20th Century, including its role in agriculture, mechanical industry, international trade, and colonialism and domination.

HIST 371 - History of Airpower (3 Credits)
The evolution of airpower from the early 20th Century through the early 21st Century. The emphasis is on the development of various theories about the application of aerial force, and how operations in time of war have confirmed or challenged these theories from a multinational perspective.

HIST 372 - History of Modern Sea Power (3 Credits)
The evolution of sea power through the development of steam navies around the globe, 1860 CE - 2020 CE.

HIST 374 - Nationalism: Myth and Reality (3 Credits)
A comparative examination of the origins and development of nationalism and its impact on the modern world.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 375 - Nazis and Fascists in European History, 1919-1945 (3 Credits)
German and Italian political movements; emphasis on the role of leadership, propaganda, and ideology. Fascist movements in France, Rumania, Hungary, and Great Britain.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 376 - War and European Society, 1914-1945 (3 Credits)
Thematic examination of the nature and impact of total war on European society; emphasis on socio-economic, cultural, and military aspects.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 377 - Business in Historical Perspective (3 Credits)
Capitalism in the Western world: the rise of modern corporate enterprise in Europe and America since 1850.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 378 - Urban Experience in Modern Europe (3 Credits)
Social and cultural impact of urbanization in Europe since 1789 through a comparison of major cities such as London, Paris, Vienna, and Berlin.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 379 - Women in Modern Europe (3 Credits)
Survey of women in European history from the eighteenth to the twenty-first century. Focus on women's citizenship beginning with Enlightenment idea of rights through developments in modern feminism.
Cross-listed course: WGST 379

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 380 - History of the Holocaust (3 Credits)
Introduction to Nazi Germany's systematic mass-murder of Europe's Jews and other minorities during World War II. Examination of forces that led to the Holocaust, including scientific racism, Nazi policy implementation, and dynamics of annihilation during war.
Cross-listed course: JSTU 492

HIST 381 - The Nobel Peace Prize: Peace, War, and Politics (3 Credits)
Modern history through the lens of the Nobel Peace Prize. Limitations of the Nobel as encouragement to peace.

HIST 382 - History of Medicine: Antiquity to the Scientific Revolution (3 Credits)
A survey of the history of premodern medicine. How Western cultures of the past approached health and illness; anatomy; nutrition; sexuality; disease and plague; mental and emotional health; and more. From ancient Greece, through medieval and early modern Islamic, Jewish, and Christian approaches to medicine and the body.

HIST 383 - Jewish History I: Late Antiquity to 1500 (3 Credits)
The religious, cultural, social, and political conditions that shaped the Jewish experience in the Near East and Europe from late antiquity to 1500.
Cross-listed course: JSTU 381, RELG 381

HIST 384 - Jewish History II: 1500 to the Present (3 Credits)
Case studies of Jewish history in Europe, America, and the land of Israel, 1500 to the present.
Cross-listed course: JSTU 382, RELG 382

HIST 385 - The Expansion of Christianity (3 Credits)
Critical epochs in the spread of Christianity. Consideration of the great crises that shaped the structure and form of Christianity during the last 20 centuries: the Hellenistic world; the medieval syntheses; the breakout of Western Christian unity; the transition to worldwide mission activity in the industrial age.
Graduation with Leadership Distinction: GLD: Global Learning
HIST 386 - Islamic Institutions and Traditions (3 Credits)
The religious, political, social and economic institutions and intellectual and scholarly traditions developed by Muslim societies throughout Afro-Eurasia from late antiquity to the present.
Cross-listed course: RELG 354
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 387 - Messiahs, Mystics and Rebels in the Islamic World (3 Credits)
Representative messianic movements, millenarian visionaries and apocalyptic imaginings in the Islamic world from the 7th century to the present, with attention to related developments in the Jewish and Christian traditions over the last two millennia.
Cross-listed course: RELG 368

HIST 388 - Kabbalah: Science, Religion and Nature in Western History (3 Credits)
Historical investigation of kabbalah, a philosophical system and mystical current common to Judaism, Islam and Christianity, from the medieval period to the present; focus on its formative role in early modern Western cosmology and science, and its ecological implications today.
Cross-listed course: JSTU 388, RELG 388

HIST 389 - Science, Magic and Religion (3 Credits)
Occultism as a link between science and religion and its central role in Western intellectual and cultural history; the historical development of the science-magic-religion continuum in the Islamo-Christian world from late antiquity to present.
Cross-listed course: RELG 362

HIST 390 - Engineering in History (3 Credits)
History of engineering practices, professions, and sciences, as well as development of engineered artifacts from the Middle Ages to the present.

HIST 391 - Information Technology: Past and Present (3 Credits)
The history of the computer; how it acquired various forms through the 20th century; how information, as defined by computers, had shaped the world over the past century.

HIST 392 - Making Modern Science: The Physical Sciences (3 Credits)
The history of physics, chemistry, geology, and related sciences since the Scientific Revolution.

HIST 393 - Making Modern Science: The Life Sciences (3 Credits)
The study of the life from antiquity to the present. Investigates the origins of modern biology and medicine and how life has shaped scientific, political, and economic thought.

HIST 394 - History of the Automobile (3 Credits)
Evolution of the automobile from a conceptual idea through the present-day. Emphasis on analysis of the automobile’s impact on culture, economics, the environment, politics, science and technology, and society.

HIST 395 - Plagues and Societies in World History (3 Credits)
A survey of biopolitical, social, economic, and cultural aspects of epidemic diseases throughout world history.

HIST 396 - Evolution of Warfare I (3 Credits)
A history of tactics, strategy, weapons, and logistics from 500 B.C. to A.D. 1400.

HIST 397 - Evolution of Warfare II (3 Credits)
A history of tactics, strategy, weapons, and logistics from A.D. 1400 to the present.

HIST 398 - Sustainability in World History from Early Times to the Anthropocene (3 Credits)
An interdisciplinary examination of sustainability around the world from social, environmental, technological, and economic perspectives from early times to the present.

HIST 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

HIST 400 - Urban America in the Modern Age, 19th Century-present (3 Credits)
Survey of the urban history of the United States from the 19th Century through today.

HIST 401 - The Development of the American People to 1789 (3 Credits)
The founding of the English colonies, their developing maturity, the events leading to the Revolution, and the creation of a new nation.

HIST 402 - The New Nation, 1789-1828 (3 Credits)
The new republic and the developing democratic spirit in politics and culture.

HIST 403 - The Sections and the Nation, 1828-1860 (3 Credits)
The three cultures of East, South, and West; their interactions and the events leading to the Civil War.

HIST 404 - Civil War and Reconstruction, 1860-1877 (3 Credits)
The political, military, and social history of the War and the reorganization which followed.

HIST 405 - The Rise of Industrial America, 1877-1917 (3 Credits)
A survey of recent United States history with emphasis on the economic, social, and literary developments from 1877 to 1917.

HIST 406 - The United States and a World at War, 1917-1945 (3 Credits)
The United States and a World at War, 1917-1945.

HIST 407 - United States History Since 1945 (3 Credits)
A survey of the political, economic, social, and cultural developments in the period after World War II.

HIST 409 - The History of South Carolina, 1670-1865 (3 Credits)
A study of South Carolina origins and developments.

HIST 410 - History of South Carolina Since 1865 (3 Credits)
A survey of recent South Carolina history with emphasis on social and institutional development.

HIST 413 - History of Canada (3 Credits)
A survey of Canadian development from colony to modern nation.

HIST 415 - Voices of America: U.S. History Through Biography (3 Credits)
Historical exploration of the daily lives and personal stories of Americans through biographies and ethnographies.

HIST 416 - Histories of Native America (3 Credits)
Experiences of Native people in North America from the period before European colonization through the 21st Century.

HIST 420 - Colonial Latin America (3 Credits)
The establishment and consolidation of the Spanish and Portuguese empires in the Western hemisphere; interaction of Indians, Africans, and Iberians, and the formation of social, economic, and political traditions in Latin America; political independence.
Cross-listed course: LASP 341
HIST 421 - Modern Latin America (3 Credits)
The traditional society in the area and problems arising from social, economic, and political changes since independence; comparative studies of national responses to these problems.
Cross-listed course: LASP 342
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 422 - Social and Economic History of Latin America (3 Credits)
The evolution of social groups and changes in economic patterns in Latin America from pre-Columbian times to the present.
Cross-listed course: LASP 441

HIST 423 - History of Mexico (3 Credits)
Mexico from the pre-conquest period to the present, with an emphasis on modern Mexico.
Cross-listed course: LASP 442

HIST 425 - Caribbean Race and Slavery, 1500-1900 (3 Credits)
The role of race and slavery played in shaping Colonial Caribbean History from the pre-Columbian Civilizations to the end of the 19th century.

HIST 434 - Everyday Life in Colonial America (3 Credits)
The customs, mores, attitudes, and living conditions of men and women of the 17th and 18th centuries. Emphasis on the common people of the American colonies.

HIST 435 - The American Revolution (3 Credits)
The causes of the Revolution; the events of the period and their implications.

HIST 442 - The Old South (3 Credits)
Development of Southern society and of the forces that made the South a distinctive section of the United States.

HIST 443 - The New South (3 Credits)
Reconstruction, the Bourbon era, agrarian revolt, industrial revolution, racial problems, and the changes resulting from the impact of two world wars and the New Deal (1865-1946).
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HIST 444 - The Civil War in American History (3 Credits)
The causes, events, and results of the Civil War.

HIST 445 - The Reconstruction of the Nation (3 Credits)
The events and results of the attempt to reoder the American nation after the Civil War.

HIST 446 - Immigration and Ethnicity in America (3 Credits)
Issues of immigration, assimilation and nativism in the United States, 1840 to 1930.

HIST 447 - American Empire: Policy, Society, and Culture (3 Credits)
HIST 447 examines the full sweep of American history through the lens of empire, covering especially the linkages between U.S. foreign policy and American domestic culture.

HIST 448 - American Environmental History (3 Credits)
Interaction of cultural values, economic interests, public policy, and technology with the physical environment over time.

HIST 449 - American Popular Culture Since 1890 (3 Credits)
A history of the contributions of the popular aspects of American culture and their interactions with American institutions.

HIST 451 - The History of American Medicine (3 Credits)
The development of the art and science of medicine as practiced in the United States from colonial times to Medicare. Emphasis on the social history of American medicine.

HIST 452 - The History of Science in America (3 Credits)
The development of science in America from colonial times to the present. Special attention will be given to defining those factors, scientific, economic, and social, which have raised American science to its commanding position in the 20th century.

HIST 453 - Technology and American Society (3 Credits)
The historical development of technologies and technological systems in the American context.

HIST 455 - The American Civil Rights Movement (3 Credits)
Examination of the origins of Jim Crown and the multi-faceted struggle against it, and other forms of racial inequality, in the American South and the rest of the US since the early 20th century.
Cross-listed course: AFAM 335
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

HIST 460 - American Thought to 1865 (3 Credits)
The transfer and adaptation of European ideas to a new environment and the development of new patterns.

HIST 461 - American Thought since 1865 (3 Credits)
The maturation and extension of a national culture.

HIST 462 - Southern Intellectual and Cultural History (3 Credits)
Intellectual and cultural developments characteristic of the Southern region from colonial times to the recent past.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HIST 463 - Jim Crow: Histories & Revivals (3 Credits)
This course critically examines the continuities and discontinuities between Jim Crow and our current historical and political moment.
Cross-listed course: AFAM 463

HIST 464 - History of American Women (3 Credits)
The social, political, and economic roles and changing status of women in America.
Cross-listed course: WGST 464
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

HIST 465 - American Diplomatic History (3 Credits)

HIST 466 - American Diplomatic History (3 Credits)

HIST 468 - American Military Experience (3 Credits)
Transformation of war and of the institutions for waging war from the American Revolution to the present.
Cross-listed course: ARMY 406

HIST 469 - Constitutional History of the United States (3 Credits)
A study of the constitutional development of the United States from the creation of the Articles of Confederation to the Civil War. It deals primarily with problems of governmental organization, judicial interpretation, and sectional politics.

HIST 470 - Constitutional History of the United States (3 Credits)
An analysis of the growth of constitutional power from 1860 to the present, giving special attention to the constitutional problems of the Civil War period, the increasing role of the judiciary in national affairs, and the general extension of constitutional authority in the 20th century.
HIST 471 - American Jewish History (3 Credits)
Examination of experiences of Jews in the United States from Colonial Period to late 20th century, especially Jewish immigration, political behavior, social mobility, religious affiliation, group identity formation, and meaning of Anti-Semitism in American and global contexts.

Cross-listed course: JSTU 471

HIST 475 - Historic Preservation (3 Credits)
Overview of historic preservation as the practice of protecting and conserving places that tell stories about the past.

HIST 476 - Digital History (3 Credits)
Introduction to Digital History that examines ways to engage and adapt the discipline of history to technological trends and explores new approaches and interpretive techniques.

HIST 478 - Material Culture in the Digital Age (3 Credits)
Examination of material culture (objects and artifacts a society produces) as primary sources for historical research; how these sources are transformed when digitized; and the nature of born-digital resources.

HIST 479 - Oral History (3 Credits)
Methodology, application and usage, historic and current literature, identification and examination of available resources.

Graduation with Leadership Distinction: GLD: Research

HIST 480 - Internship in Public History (3 Credits)
Professional practice in museums, archives, preservation organizations, and other agencies involved in historical research, advocacy, and preservation of historical resources and history programming for public audiences.

Experiential Learning: Experiential Learning Opportunity

HIST 492 - Topics in History (3 Credits)
Reading and research on selected historical subjects. Open only to juniors and seniors with permission of the instructor.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Research

HIST 493 - Topics in History (3 Credits)
Reading and research on selected historical subjects. Open only to juniors and seniors with permission of the instructor.

Graduation with Leadership Distinction: GLD: Research

HIST 494 - Topics in History (3 Credits)
Reading and research on selected historical subjects. Open only to juniors and seniors with permission of the instructor.

Graduation with Leadership Distinction: GLD: Research

HIST 497 - Senior Seminar (3 Credits)
Principles of historical research and writing as applied to the seminar topic. Open to history majors or by special permission of instructor.

Prerequisites: HIST 300.

Graduation with Leadership Distinction: GLD: Research

HIST 498 - Senior Seminar (3 Credits)
Principles of historical research and writing as applied to the seminar topic. Open to history majors or by special permission of instructor.

Prerequisites: HIST 300.

Graduation with Leadership Distinction: GLD: Research

HIST 499 - Senior Thesis (3 Credits)
Principles of historical research and writing. A senior year thesis related to one of the advanced courses in the major program.

Prerequisites: HIST 300.

Graduation with Leadership Distinction: GLD: Research

HIST 562 - The Middle East and the United States: 1800 to the Present (3 Credits)
Political, cultural, and economic ties which have linked the Middle East to the United States. Middle Eastern views of these relationships and their impact on modern Middle Eastern history.

Graduation with Leadership Distinction: GLD: Global Learning

HIST 599 - Topics in History (3 Credits)
Reading and research on selected historical topics. Course content varies and will be announced in the schedule of classes by title.

HIST 640 - South Carolina History (3 Credits)
South Carolina since colonization.

HIST 641 - The American South Comes of Age (3 Credits)
Changes in the Southern region since 1940.

HIST 692 - Historic Preservation Field Experience--Charleston, S.C. (3 Credits)
On-site introduction to historic preservation including research, interpretation, management, and economics of preservation. Offered only in Charleston during summer term.

History Minor

Minor Requirements

Students must take 18 credit hours in History. Students may take up to 6 hours of History courses at the 200 level to fulfill minor requirements; all the rest of their course hours in History must be taken at the 300 level or higher.

Courses must have the approval of the student's advisor and an advisor in the History Department. The approval of the History advisor may come at any stage of the program.

History, B.A.

Learning Outcomes

• Students will identify major events, people, themes, and historical processes in distinct major chronological, thematic, and/or geographic fields of history (e.g., Africa, Asia, history of science, Latin America, Latin America, pre-modern Europe, public history, U.S., etc.)

• Students will identify appropriate source materials through consulting with librarians, search engines, and other resources available through Thomas Cooper library and the internet. They will filter the overwhelming amount of material available on the web and target those sources most relevant and trustworthy.

• Students will be able to explain the main points of a primary source (whether textual or non-textual), analyze its nature or bias(es), and determine to what other primary and secondary sources it might be usefully compared.

• Students will be able to summarize interpretations of specific historical events and assess an interpretation's validity to a given subject.

• Students will be able to produce brief essays demonstrating their abilities at comprehending, classifying, outlining, organizing, and critiquing sources provided in oral, material, and/or written form.

• Students will demonstrate their expertise in the analysis of primary sources, the integration of primary and secondary material, and the presentation of a persuasive, logical, and clearly written argument through the production of a senior thesis paper or other research project.
Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
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<tr>
<td>1. Carolina Core Requirements</td>
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<td>2. College Requirements</td>
<td>15-18</td>
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<td>3. Program Requirements</td>
<td>28-43</td>
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<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

• Two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required for all baccalaureate degrees. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

• any overlay or stand-alone CC-VSR course (p. 743)

Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

• only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or

• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.
Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

3. Program Requirements (28-43 hours)
Cognate or Minor (12-18 hours)
Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303)

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (10-31 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-

Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (27 hours)
A minimum grade of C is required in all major courses.

Students may take up to 6 hours of History courses at the 200 level to fulfill major requirements; all the rest of their course hours in History must be taken at the 300 level or higher

Major Courses (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 300</td>
<td>Introduction to the History Major. The Historian’s Craft ¹</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History</td>
<td>Select 1 course from U.S. History 300 or above</td>
<td>3</td>
</tr>
<tr>
<td>European History</td>
<td>Select 1 course from European History 300 or above</td>
<td>3</td>
</tr>
<tr>
<td>World History</td>
<td>Select 1 course from African, Middle Eastern, Asian, or Latin American History 300 or above</td>
<td>3</td>
</tr>
<tr>
<td>Chronological Breadth ²,³</td>
<td>Select 1 course (200-level or above) that substantially covers pre-modern societies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 1 course (200-level or above) that substantially covers modern societies</td>
<td>3</td>
</tr>
<tr>
<td>Senior Seminar or Thesis</td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 497 Senior Seminar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HIST 498 Senior Seminar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HIST 499 Senior Thesis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SCHC 499 HNRS: Senior Thesis/Project ⁴</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

1 Students should take HIST 300 as soon as possible after declaring their history major.
2 Overlay: the same courses that fulfill these requirements may also fulfill other major requirements
3 Students may not use the same course to count for both of these chronological categories.
4 Honors Thesis may substitute if this thesis is directed by a member of the history faculty.

Major Electives (12 hours)
Select 4 additional history courses, 200-level or above. The Assistant Chair and Undergraduate Director will determine into which groups specific History courses fall in consultation with the faculty member teaching the class. The Undergraduate Committee of the History Department must approve exceptions to the distribution requirements.

B.A. with Distinction (36 hours)
Students who fulfill the requirements for the general major may earn a B.A. with Distinction upon the completion of the following additional requirements:
• Declare their intention to pursue a degree with distinction before the beginning of their senior year, that is, before they have begun the last 30 units of their undergraduate degree.
• Have a minimum 3.60 GPA in the major and 3.50 overall GPA at the time of declaration of intent and maintain these GPA requirements.
• Complete an additional 9 hours of History courses at the 200-level or higher (only 6 hours of 200-level History courses may count towards the requirements for the major and graduation with distinction).
• Notify the professor of their Senior Seminar or Thesis course in writing by the end of the first week of class that they intend to pursue a degree “with distinction” and complete to the professor’s satisfaction the additional research necessary for work “with distinction.”
• Public presentation of their research at Discovery Day.

Note: Students who want a degree “with distinction” from the History Department and a degree “with honors from the South Carolina Honors College” must complete two separate research projects.

The Warwick Exchange Program
Selected history majors spend the junior year at the University of Warwick, Coventry, England, and maintain normal progress toward graduation.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

History, B.A.

Interdisciplinary Studies (College of Arts and Sciences)

The College of Arts and Sciences offers two interdisciplinary studies degrees, the Bachelor of Arts in Interdisciplinary Studies (BAIS) and the Bachelor of Science in Interdisciplinary Studies (BSIS), for students who want to pursue interdisciplinary studies without a major in a single department or in one of the structured interdepartmental degree programs (African American studies, classics, European studies, film studies, Latin American studies, marine science, and women’s studies). The Bachelor of Arts in Interdisciplinary Studies and the Bachelor of Science in Interdisciplinary Studies are not intended to be substitutes for approved major and minor programs. The degree programs are under the general supervision of the college Interdisciplinary Studies Committee, and individual programs are administered by special interdisciplinary program committees.

Bachelor of Arts in Interdisciplinary Studies programs in the College of Arts and Sciences must focus primarily on disciplines in the humanities, social sciences, and fine arts. Bachelor of Science in Interdisciplinary Studies programs in the College of Arts and Sciences must focus primarily on disciplines in the sciences, mathematics, and statistics; they may be particularly useful for students who plan to seek teacher certification in more than one science area.

A student who wishes to undertake a Bachelor of Arts in Interdisciplinary Studies shall apply to the Assistant Dean of the College of Arts and Sciences, Undergraduate Academic Affairs and Advising, Flinn Hall.

A student who wishes to undertake a Bachelor of Science in Interdisciplinary Studies shall apply to the Assistant Dean of the College of Arts and Sciences, Undergraduate Academic Affairs and Advising, Flinn Hall.

Programs
• African American Studies Minor (p. 98)
• African American Studies, B.A. (p. 99)
• African Studies Minor (p. 101)
• Asian Studies Minor (p. 101)
• European Studies Minor (p. 104)
• Global Studies, B.A. (p. 105)
• Interdisciplinary Studies, B.A.I.S. (College of Arts and Sciences) (p. 110)
• Interdisciplinary Studies, B.S.I.S. (College of Arts and Sciences) (p. 112)
• Islamic World Studies Minor (p. 114)
• Jewish Studies Minor (p. 115)
• Latin American Studies Minor (p. 115)
• Law and Society Interdisciplinary Minor (p. 116)
• Linguistics Minor (p. 116)
• Medical Humanities and Culture Minor (p. 117)
• Medical Humanities Minor (p. 117)
• Renaissance Studies Minor (p. 119)
• Russian and Eurasian Studies Minor (p. 119)
• Southern Studies Minor (p. 120)
• Women's and Gender Studies Minor (p. 120)
• Women's and Gender Studies, B.A. (p. 120)

Courses
IDST 390 - Introduction to Interdisciplinary Inquiry (3 Credits)
A study of the history, philosophy, and theory of and modes of inquiry in interdisciplinary studies.

STEM 101 - Concepts and Connections: An Introduction to Science, Technology, Engineering and Mathematics (3 Credits)
This course introduces concepts, connections, and evolving relationships among the sciences engineering and mathematics to strengthen understanding of current ideas and applications of advanced technologies.

African American Studies Minor
A minor in the African American Studies Program strengthens an undergraduate degree in the College of Arts and Sciences by providing students with the interdisciplinary tools and resources to study the experiences of people of African descent and to evaluate black historical, cultural, social, economic and political developments in South Carolina, the South, the United States, and beyond. Our principal specializations include black political and social movements, African-American literature, comparative cultural anthropology, and health disparities. In addition, students will have the opportunity to select related courses in other disciplines (as approved by the program director and faculty advisors) in order to develop a more competitive and focused schedule that will
Undergraduate

prepare students for advanced graduate or professional study, and careers in education, politics, management, tourism, the arts, and more.

**Minor Requirements (18 Hours)**

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 201</td>
<td>Introduction to African American Studies: Social and Historical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>AFAM 202</td>
<td>Introduction to African-American Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours**

6

**Additional Courses (12 Hours)**

- 3 hours of an AFAM course or other course pertinent to African American Studies numbered 200 and above as approved by program.
- 9 hours of AFAM courses or other courses pertinent to African American Studies numbered 300 and above as approved by program.

Note: No more than one Independent Study course (3 hours) may be applied to the minor. Independent Study requires the approval of the Director of African American Studies.

**African American Studies, B.A.**

**Learning Outcomes**

- Majors will learn the importance of the principal movements, pivotal figures, and conceptual ideas that shape the academic study of African American experiences. Students will acquire the tools for contextualizing the dynamic realities of race in America and for analyzing their social, political, and cultural implications.
- Majors will work across academic disciplines in the humanities and social sciences to synthesize the multiple roots and routes of intellectual inquiry within African American Studies. Students will interpret primary and secondary source material using both individual and collaborative methods of study.
- Students will develop as scholars and researchers in African American Studies through effective oral, written, and aesthetic forms of communication. Assignments will emphasize the tasks of rigorous scholarship, including: critical thinking, creative expression, precise writing, constructive discussions, and standards of professional engagement.

**Admissions**

**Entrance Requirements**

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

**Degree Requirements (120 hours)**

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<tr>
<td>4. Major Requirements</td>
<td>30</td>
</tr>
</tbody>
</table>

**1. Carolina Core Requirements (32-44 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

**ARP – Analytical Reasoning and Problem Solving (6-8 hours)**

- any CC-ARP courses (p. 743)

**SCI – Scientific Literacy (8 hours)**

- Two 4-credit hour CC-SCI (p. 743) laboratory science courses

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

- any CC-GHS course (p. 743)

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- any CC-GSS course (p. 743)
AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible
Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

3. Program Requirements (28-43 hours)
Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences. (p. 303)

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult with their major advisor for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.)

The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (10-31 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (30 hours)
A minimum grade of C is required in all major courses

Major Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 201</td>
<td>Introduction to African American Studies: Social and Historical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>AFAM 202</td>
<td>Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFAM 498</td>
<td>Seminar in African-American Studies</td>
<td>3</td>
</tr>
</tbody>
</table>
or AFAM 499  Seminar in African-American Studies

Total Credit Hours  9

Major Electives (21 hours)
- **Society and History** (6 hours)
  - Select two AFAM or discipline-based courses in social and historical topics (e.g., POLI, SOCY, PSYC, WGST, HIST, ANTH, RELG)
- **Arts and Culture** (6 hours)
  - Select two AFAM or discipline-based courses in arts and cultural topics (e.g., ENGL, CPLT, ANTH, FILM, THEA, DANC, LING)
- **Three Additional Courses** (9 hours)
  - Select three AFAM or discipline-based courses (300-level or above) organized around 1-2 subjects in consultation with advisor.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

African American Studies, B.A.

African Studies Minor

Minor Requirements (18 Hours)

Additional Courses (9 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two courses from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 505</td>
<td>International Development Economics</td>
<td>6</td>
</tr>
<tr>
<td>FREN 453</td>
<td>Francophone Literatures and Cultures</td>
<td></td>
</tr>
<tr>
<td>GEOG 560</td>
<td>Source Materials for Geographic Instruction</td>
<td></td>
</tr>
<tr>
<td>HIST 351</td>
<td>Africa to 1800</td>
<td></td>
</tr>
<tr>
<td>HIST 352</td>
<td>Africa since 1800</td>
<td></td>
</tr>
<tr>
<td>POLI 380</td>
<td>Comparative Politics of Developing Countries</td>
<td></td>
</tr>
<tr>
<td>POLI 432</td>
<td>Nationalism and Ethnicity in World Politics</td>
<td></td>
</tr>
<tr>
<td>SWAH 121</td>
<td>Elementary Swahili</td>
<td></td>
</tr>
<tr>
<td>SWAH 122</td>
<td>Basic Proficiency in Swahili</td>
<td></td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARAB 121</td>
<td>Elementary Arabic</td>
<td></td>
</tr>
<tr>
<td>ARAB 122</td>
<td>Basic Proficiency in Arabic</td>
<td></td>
</tr>
<tr>
<td>ARAB 201</td>
<td>Intermediate Arabic</td>
<td></td>
</tr>
<tr>
<td>ARAB 202</td>
<td>Intermediate Arabic</td>
<td></td>
</tr>
<tr>
<td>ARAB 398</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>ECON 505</td>
<td>International Development Economics</td>
<td></td>
</tr>
<tr>
<td>FREN 453</td>
<td>Francophone Literatures and Cultures</td>
<td></td>
</tr>
<tr>
<td>GEOG 569</td>
<td>International Development and the Environment</td>
<td></td>
</tr>
<tr>
<td>HIST 104</td>
<td>Introduction to the Civilization of the Islamic Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 348</td>
<td>North Africa from Colonialism to Revolution: 1830-1962</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours  9

Core Courses (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two courses from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 106</td>
<td>Introduction to African History</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 228</td>
<td>Geography of Sub-Saharan Africa</td>
<td></td>
</tr>
<tr>
<td>ANTH 236</td>
<td>Cultures of Africa</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours  6

Courses on North Africa and the Middle East (3-6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two or three courses from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARAB 121</td>
<td>Elementary Arabic</td>
<td></td>
</tr>
<tr>
<td>ARAB 122</td>
<td>Basic Proficiency in Arabic</td>
<td></td>
</tr>
<tr>
<td>ARAB 201</td>
<td>Intermediate Arabic</td>
<td></td>
</tr>
<tr>
<td>ARAB 202</td>
<td>Intermediate Arabic</td>
<td></td>
</tr>
<tr>
<td>ARAB 398</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>HIST 104</td>
<td>Introduction to the Civilization of the Islamic Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 348</td>
<td>North Africa from Colonialism to Revolution: 1830-1962</td>
<td></td>
</tr>
<tr>
<td>HIST 349</td>
<td>The Contemporary Middle East and North Africa</td>
<td></td>
</tr>
<tr>
<td>HIST 348</td>
<td>North Africa from Colonialism to Revolution: 1830-1962</td>
<td></td>
</tr>
<tr>
<td>HIST 349</td>
<td>The Contemporary Middle East and North Africa</td>
<td></td>
</tr>
<tr>
<td>HIST 351</td>
<td>Africa to 1800</td>
<td></td>
</tr>
<tr>
<td>HIST 352</td>
<td>Africa since 1800</td>
<td></td>
</tr>
<tr>
<td>HIST 386</td>
<td>Islamic Institutions and Traditions</td>
<td></td>
</tr>
<tr>
<td>POLI 380</td>
<td>Comparative Politics of Developing Countries</td>
<td></td>
</tr>
<tr>
<td>POLI 432</td>
<td>Nationalism and Ethnicity in World Politics</td>
<td></td>
</tr>
<tr>
<td>POLI 433</td>
<td>Economic Aspects of International Politics</td>
<td></td>
</tr>
<tr>
<td>RELG 354</td>
<td>Islamic Institutions and Traditions</td>
<td></td>
</tr>
<tr>
<td>SWAH 121</td>
<td>Elementary Swahili</td>
<td></td>
</tr>
<tr>
<td>SWAH 122</td>
<td>Basic Proficiency in Swahili</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours  3-6

Note: In addition, a student may petition the African Studies Program to apply special topic or independent study courses with substantial African content towards the minor.

Asian Studies Minor

Minor Requirements (18 Hours)

The minor in Asian Studies requires a minimum of 18 credit hours from the courses listed below or other related courses pre-approved by the director of the program. It must include courses from at least three groups listed below. Of the 18 hours, at least 12 must be 300-level or above. In addition, the student is encouraged to take courses in Chinese
Admission and Retention Standards for Cardiovascular Technology

Admission to CVT training programs is very competitive, and only a limited number of candidates can be admitted in each class. For this reason the following retention standards are applied during the academic portion of this program at USC:

1. Retention. Progressive GPA standards are enforced for continuation in the program. Upon completion of 30 credit hours a minimum GPA of 2.50 is required; at 60 credit hours a minimum GPA of 2.75 is required. Upon completion of the specified academic requirements, only students who have gained admission into an approved CVT training facility will be retained in the program.

2. Transfer students admitted to this degree program must complete the last 30 credit hours of academic work in residence at the University of South Carolina prior to entering the intensive CVT training program.

3. Students who have already completed a CVT training program or CVT internship will not be eligible for acceptance into this major.

The Bachelor of Science degree with a major in cardiovascular technology is awarded upon the following:

1. satisfactory completion of at least 100 semester hours of academic work, including all courses prescribed in the curriculum below;

2. satisfactory completion of an intensive CVT training program, accredited by the Joint Review Committee on Education in Cardiovascular Technology.

Admissions

Degree Requirements (128 hours)

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher
2. College Requirements (12-15 hours)

Foreign Language (0-3 hours)
only if needed to meet 122-level proficiency

Analytical Reasoning (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 103, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)

- CLAS 230
- Courses Acceptable for Social Science and Fine Arts or Humanities

3. Program Requirements (16-26 hours)

Supporting Courses (16 hours)

Must be passed with a grade of C or higher.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Credit Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

Cognate (0 hours)

Intensive Clinical Training Program: The 18-month intensive clinical training program replaces the cognate.

Electives (0-10 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-
Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (58 hours)

A minimum grade of C is required in all major courses.

Major Courses (26 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 302</td>
<td>Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 303</td>
<td>Fundamental Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 415</td>
<td>Comparative Vertebrate Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 460</td>
<td>Advanced Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 460L</td>
<td>Advanced Human Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 541</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 331L</td>
<td>Essentials of Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Essentials of Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credit Hours 26

Major Electives (4 hours)

Select four hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 302L</td>
<td>Cell and Molecular Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 505</td>
<td>Developmental Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 530</td>
<td>Histology</td>
<td></td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Analysis</td>
<td></td>
</tr>
<tr>
<td>BIOL 620</td>
<td>Immunobiology</td>
<td></td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Quantitative Analysis Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 4

CVT Training (28 hours)

Following the academic portion of the Cardiovascular Technology Program, an 18 months clinical training program in an approved facility will be the final stage of the degree program. Students will be awarded 28 credit hours upon completion of the clinical portion of the training. Students who have already completed a CVT training program or CVT internship will not be eligible for acceptance into this major.  

1 In an approved facility

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

European Studies Minor

Minor Requirements (18 Hours)

Required Courses (9 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EURO 300</td>
<td>Introduction to European Studies</td>
<td>3</td>
</tr>
<tr>
<td>2 Two European Language courses of 200-level or higher or equivalent</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 9

Electives (9 Hours)

Select three courses involving more than one discipline and focusing on more than one country from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 315</td>
<td>History of Medieval Art</td>
</tr>
<tr>
<td>ARTH 320</td>
<td>History of Italian Renaissance Art</td>
</tr>
<tr>
<td>ARTH 321</td>
<td>History of Northern Renaissance Art</td>
</tr>
<tr>
<td>ARTH 325</td>
<td>History of Southern Baroque Art</td>
</tr>
<tr>
<td>ARTH 326</td>
<td>History of Northern Baroque Art</td>
</tr>
<tr>
<td>ARTH 327</td>
<td>History of 18th-Century European Art</td>
</tr>
<tr>
<td>ARTH 330</td>
<td>History of 19th-Century European Art</td>
</tr>
<tr>
<td>ARTH 335</td>
<td>History of 20th Century Art</td>
</tr>
<tr>
<td>ECON 303</td>
<td>The International Economy</td>
</tr>
<tr>
<td>ECON 408</td>
<td>History of Economic Thought</td>
</tr>
<tr>
<td>ENGL 390</td>
<td>Great Books of the Western World I</td>
</tr>
<tr>
<td>ENGL 391</td>
<td>Great Books of the Western World II</td>
</tr>
<tr>
<td>ENGL 400</td>
<td>Early English Literature</td>
</tr>
<tr>
<td>ENGL 401</td>
<td>Chaucer</td>
</tr>
<tr>
<td>ENGL 402</td>
<td>Tudor Literature</td>
</tr>
<tr>
<td>ENGL 403</td>
<td>The 17th Century</td>
</tr>
<tr>
<td>ENGL 404</td>
<td>English Drama to 1660</td>
</tr>
<tr>
<td>ENGL 405</td>
<td>Shakespeare's Tragedies</td>
</tr>
<tr>
<td>ENGL 406</td>
<td>Shakespeare's Comedies and Histories</td>
</tr>
<tr>
<td>ENGL 407</td>
<td>Milton</td>
</tr>
<tr>
<td>ENGL 410</td>
<td>The Restoration and 18th Century</td>
</tr>
<tr>
<td>ENGL 411</td>
<td>British Romantic Literature</td>
</tr>
<tr>
<td>ENGL 412</td>
<td>Victorian Literature</td>
</tr>
<tr>
<td>ENGL 413</td>
<td>Modern English Literature</td>
</tr>
<tr>
<td>ENGL 414</td>
<td>English Drama Since 1660</td>
</tr>
<tr>
<td>ENGL 415</td>
<td>The English Novel I</td>
</tr>
<tr>
<td>ENGL 416</td>
<td>The English Novel II</td>
</tr>
<tr>
<td>ENGL 419</td>
<td>Topics in English Literature</td>
</tr>
<tr>
<td>ENGL 438B</td>
<td>Scottish Literature</td>
</tr>
<tr>
<td>ENGL 438C</td>
<td>Irish Literature</td>
</tr>
<tr>
<td>ENGL 438E</td>
<td>Caribbean Literature</td>
</tr>
<tr>
<td>HIST 306</td>
<td>Medieval Europe, ca. 300-1492</td>
</tr>
<tr>
<td>HIST 307</td>
<td>Family and Society in Europe, c. 1200-1700</td>
</tr>
<tr>
<td>HIST 308</td>
<td>Magic and Witchcraft in Europe, c. 1200-1700</td>
</tr>
<tr>
<td>HIST 311</td>
<td>The Age of Absolutism, 1648-1789</td>
</tr>
<tr>
<td>HIST 312</td>
<td>French Revolution and Napoleon</td>
</tr>
<tr>
<td>HIST 313</td>
<td>The Enlightenment</td>
</tr>
<tr>
<td>HIST 316</td>
<td>Nineteenth-Century Europe</td>
</tr>
</tbody>
</table>

Cardiovascular Technology, B.S.
Global Studies, B.A.

Students at the University of South Carolina are living in an increasingly globalized context in which economic, social, environmental, and cultural transformations in one part of the world can affect all others. The Global Studies major is a flexible, interdisciplinary degree program that familiarizes students with the complex historical and contemporary relationships and processes that link together people and places. By focusing on themes relating to globalization, the major also encourages students to recognize and to appreciate the world’s diversity. To achieve this end, the major requires students to focus on a particular world region and to attain proficiency in a modern foreign language. The overall aim of the program is to foster in students a critical, global outlook that will allow them to engage with pressing global questions and to thrive in an interconnected world.

Learning Outcomes

- Global Studies majors will employ a variety of disciplinary perspectives to demonstrate a critical understanding of global processes and the theories and concepts used to explain and interpret these processes.
- Global Studies majors will evaluate the interactions between global and local processes by selecting a world region for intensive study.
- Global Studies majors will demonstrate expertise in key global issues through courses in one of four thematic areas: Global Development and Sustainability; Global Health; Global Conflict and Security Studies; and Global Cultural Studies.
- Global Studies majors will demonstrate proficiency in a foreign language, allowing them to study, work, travel, and/or conduct research outside of the United States.
- Students will demonstrate their preparation for appropriate careers or graduate studies.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.

2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
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<tr>
<td>3. Program Requirements</td>
<td>25-49</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>24-33</td>
</tr>
</tbody>
</table>
1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
must be passed with a grade of C or higher
  - any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)
  - any CC-ARP courses (p. 743)

Note: Global Studies students pursuing the Leadership in the Global Economy concentration must select either MATH 122 or MATH 141 as one of their ARP-approved courses. Prerequisites may be applied to degree requirements, where appropriate.

SCI – Scientific Literacy (8 hours)
Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
  - Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
  - CC-GFL courses (p. 743)
  - It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

Note: Global Studies students must demonstrate proficiency in one modern foreign language, approved by the advisor, at the advanced level by completing 6 hours in language courses numbered 300 and above or the equivalent. Courses in that foreign language at the beginning or intermediate levels (100 or 200-levels), if needed as prerequisites, may be applied to Carolina Core or College requirements, where appropriate.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
  - any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
Select one from:
  - ANTH 102
  - GEOG 121
  - GEOG 210
  - LING 101
  - POLI 101
  - RELG 101

AIU – Aesthetic and Interpretive Understanding (3 hours)
  - any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
  - any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
  - any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
  - any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
  - only if needed to meet 122-level proficiency

Note: Global Studies students must demonstrate proficiency in one modern foreign language, approved by the advisor, at the advanced level by completing 6 hours in language courses numbered 300 and above or the equivalent. Courses in that foreign language at the beginning or intermediate levels (100 or 200-levels), if needed as prerequisites, may be applied to Carolina Core or College requirements, where appropriate.

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
  - One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  - One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (9 hours of Fine Arts or Humanities)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102</td>
<td>Understanding Other Cultures</td>
<td>3</td>
</tr>
</tbody>
</table>
Recommended Cognates:

- Grade of C or higher.
- Counted toward the cognate.
- Courses applied toward general education requirements cannot be requirements in their major.
- Study. Students are urged to consult their major advisors for specific approved by the major advisor as being related to the major field of courses to be chosen at random by the student. The cognate must be
- It should be emphasized that the cognate is not a second set of elective requirements.
- For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.
- It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.
- Courses applied toward general education requirements cannot be counted toward the cognate.
- For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Recommended Cognates:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 121</td>
<td>Globalization and World Regions</td>
<td></td>
</tr>
<tr>
<td>GEOG 210</td>
<td>Peoples, Places, and Environments</td>
<td></td>
</tr>
<tr>
<td>LING 101</td>
<td>Linguistics 1: Introduction to Language</td>
<td></td>
</tr>
<tr>
<td>POLI 101</td>
<td>Introduction to Global Politics</td>
<td></td>
</tr>
<tr>
<td>RELG 101</td>
<td>Exploring Religion</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours: 3

1 Global Studies students pursuing the Leadership in the Global Economy concentration must use ECON 224 to fulfill the Social Science requirement.

3. Program Requirements (25-49 hours)

Cognate or Minor (12-18 hours)

Cognate

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Recommended Cognates:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 580</td>
<td>Culture and Identity in the African Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 487</td>
<td>Community Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 308</td>
<td>Community Organization</td>
<td>3</td>
</tr>
<tr>
<td>WGST 381</td>
<td>Gender and Globalization</td>
<td>3</td>
</tr>
</tbody>
</table>

Sustainability

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 321</td>
<td>Sustainable Cities</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 331</td>
<td>Integrating Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 531</td>
<td>Sustainability Management and Leadership Strategies</td>
<td>3-4</td>
</tr>
<tr>
<td>PHIL 322</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Tourism and Management 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 483</td>
<td>Tourism Economics</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 537</td>
<td>Multi-Cultural Dimensions of the Hospitality Industry</td>
<td>3</td>
</tr>
</tbody>
</table>

HRTM 565 | International Lodging Management           | 3       |

HRTM 597 | Global Travel and Tourism                  | 3       |

1 Prerequisite: HRTM 280

Minor

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (7-37 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (24-33 hours)

Selection of major courses must include at least one Carolina Core Integrative course: ANTH 355, ANTH 581, ENGL 437, ENGL 455, HRTM 482, LING 440, POLI 315, POLI 370, POLI 374, or a World Region course that is designated as Integrative.

Foreign Language (modern) (6 hours)

Two 300 or above level language courses

Global Theme or Concentration (6-19 hours)

Students must complete one theme or one concentration from the following lists. Special topics courses with appropriate content may be applied to the global theme or concentration requirement with approval of the advisor.

Global Themes (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 208</td>
<td>Anthropology of Globalization and Development</td>
<td></td>
</tr>
<tr>
<td>ANTH 381</td>
<td>Gender and Globalization</td>
<td></td>
</tr>
<tr>
<td>ANTH 556</td>
<td>Language and Globalization</td>
<td></td>
</tr>
<tr>
<td>ANTH 569</td>
<td>International Development and the Environment</td>
<td></td>
</tr>
<tr>
<td>ANTH 581</td>
<td>Globalization and Cultural Questions</td>
<td></td>
</tr>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td></td>
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</tbody>
</table>

Global Development and Sustainability Studies:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 548</td>
<td>Environmental Economics</td>
</tr>
<tr>
<td>ENVR 231</td>
<td>Introduction to Sustainability Management and Leadership</td>
</tr>
<tr>
<td>ENVR 295</td>
<td>Green Technology in Germany</td>
</tr>
<tr>
<td>ENVR 322</td>
<td>Environmental Ethics</td>
</tr>
<tr>
<td>ENVR 331</td>
<td>Integrating Sustainability</td>
</tr>
<tr>
<td>ENVR 548</td>
<td>Environmental Economics</td>
</tr>
<tr>
<td>GEOG 311</td>
<td>Cultural Geography</td>
</tr>
<tr>
<td>GEOG 313</td>
<td>Economic Geography</td>
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<tr>
<td>GEOG 343</td>
<td>Environment and Society</td>
</tr>
<tr>
<td>GEOG 347</td>
<td>Water as a Resource</td>
</tr>
<tr>
<td>GEOG 348</td>
<td>Biogeography</td>
</tr>
<tr>
<td>GEOG 512</td>
<td>Migration and Globalization</td>
</tr>
<tr>
<td>GEOG 568</td>
<td>Human Dimensions of Global Environmental Change</td>
</tr>
<tr>
<td>GEOG 569</td>
<td>International Development and the Environment</td>
</tr>
<tr>
<td>GERM 295</td>
<td>Green Technology in Germany</td>
</tr>
<tr>
<td>HIST 360</td>
<td>Into the Wild: Global Conservation since 1800</td>
</tr>
<tr>
<td>HIST 448</td>
<td>American Environmental History</td>
</tr>
<tr>
<td>HRTM 280</td>
<td>Foundations of Tourism</td>
</tr>
<tr>
<td>HRTM 383</td>
<td>Ecotourism</td>
</tr>
<tr>
<td>HRTM 482</td>
<td>Sustainable Tourism Planning and Policy</td>
</tr>
<tr>
<td>HRTM 597</td>
<td>Global Travel and Tourism</td>
</tr>
<tr>
<td>LING 556</td>
<td>Language and Globalization</td>
</tr>
<tr>
<td>PHIL 322</td>
<td>Environmental Ethics</td>
</tr>
<tr>
<td>POLI 380</td>
<td>Comparative Politics of Developing Countries</td>
</tr>
<tr>
<td>POLI 433</td>
<td>Economic Aspects of International Politics</td>
</tr>
<tr>
<td>RETL 485</td>
<td>Multi-National Retailing</td>
</tr>
<tr>
<td>RETL 592</td>
<td>Retailing/Fashion Merchandising Field Study</td>
</tr>
<tr>
<td>SOCY 315</td>
<td>Global Population Issues</td>
</tr>
<tr>
<td>WGST 381</td>
<td>Gender and Globalization</td>
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<tr>
<td>ENVS 321</td>
<td>Environmental Pollution and Health</td>
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<tr>
<td>ENVS 323</td>
<td>Global Environmental Health</td>
</tr>
<tr>
<td>AFAM 365</td>
<td>Medical Experimentation and the Black Body</td>
</tr>
<tr>
<td>ANTH 204</td>
<td>Plagues Past and Present</td>
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<tr>
<td>ANTH 263</td>
<td>Medical Experimentation and the Black Body</td>
</tr>
<tr>
<td>ANTH 388</td>
<td>Cultures, Pregnancy, and Birth</td>
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<tr>
<td>ANTH 551</td>
<td>Medical Anthropology, Fieldwork</td>
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<tr>
<td>ANTH 552</td>
<td>Medical Anthropology</td>
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<td>ANTH 555</td>
<td>Health and Disease in the Past</td>
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<td>ENHS 321</td>
<td>Environmental Pollution and Health</td>
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<td>ENHS 323</td>
<td>Global Environmental Health</td>
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<td>EPID 410</td>
<td>Principles of Epidemiology</td>
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<tr>
<td>HPEB 470</td>
<td>Principles of Global Health</td>
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<td>HPEB 551</td>
<td>Medical Anthropology, Field Work</td>
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<tr>
<td>HPEB 552</td>
<td>Medical Anthropology</td>
</tr>
<tr>
<td>HPEB 621</td>
<td>Maternal and Child Health</td>
</tr>
<tr>
<td>HPEB 684</td>
<td>HIV/STI Prevention</td>
</tr>
<tr>
<td>RELG 473</td>
<td>Religions, Medicines, and Healing</td>
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<tr>
<td>SOCY 360</td>
<td>Sociology of Medicine and Health</td>
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<tr>
<td>SOWK 307</td>
<td>International Social Work and Social Justice</td>
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<tr>
<td>WGST 113</td>
<td>Women's Health</td>
</tr>
<tr>
<td>WGST 388</td>
<td>Cultures, Pregnancy, and Birth</td>
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<tr>
<td>WGST 621</td>
<td>Maternal and Child Health</td>
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<tr>
<td>HIST 335</td>
<td>The History of Modern Russia and the Soviet Union</td>
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<td>HIST 338</td>
<td>Modern Germany</td>
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<td>HIST 347</td>
<td>The Middle East in Modern Times</td>
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<tr>
<td>HIST 352</td>
<td>Africa since 1800</td>
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<tr>
<td>HIST 354</td>
<td>Modern East Asia</td>
</tr>
<tr>
<td>HIST 356</td>
<td>China Since 1949</td>
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<tr>
<td>HIST 358</td>
<td>Japan since 1800</td>
</tr>
<tr>
<td>HIST 374</td>
<td>Nationalism: Myth and Reality</td>
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<tr>
<td>HIST 376</td>
<td>War and European Society, 1914-1945</td>
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<tr>
<td>HIST 396</td>
<td>Evolution of Warfare I</td>
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<td>HIST 397</td>
<td>Evolution of Warfare II</td>
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<tr>
<td>HIST 406</td>
<td>The United States and a World at War, 1917-1945</td>
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<td>HIST 407</td>
<td>United States History Since 1945</td>
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<tr>
<td>HIST 421</td>
<td>Modern Latin America</td>
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<tr>
<td>HIST 465</td>
<td>American Diplomatic History</td>
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<tr>
<td>HIST 466</td>
<td>American Diplomatic History</td>
</tr>
<tr>
<td>HIST 468</td>
<td>American Military Experience</td>
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<td>LASP 342</td>
<td>Modern Latin America</td>
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<td>LING 240</td>
<td>Language Conflict and Language Rights</td>
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<tr>
<td>POLI 330</td>
<td>International Organization</td>
</tr>
<tr>
<td>POLI 340</td>
<td>The Conduct and Formulation of United States Foreign Policy</td>
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<tr>
<td>POLI 341</td>
<td>Contemporary United States Foreign Policy</td>
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<td>POLI 342</td>
<td>National Security Policies of the United States</td>
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<tr>
<td>POLI 383</td>
<td>Genocide: A Comparative Perspective</td>
</tr>
<tr>
<td>POLI 416</td>
<td>Revolution and Political Violence</td>
</tr>
<tr>
<td>POLI 417</td>
<td>Theories of War in International Relations</td>
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<td>POLI 420</td>
<td>International Law</td>
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<td>POLI 421</td>
<td>Law and Contemporary International Problems</td>
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<tr>
<td>POLI 432</td>
<td>Nationalism and Ethnicity in World Politics</td>
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<tr>
<td>POLI 442</td>
<td>Globalization and Security</td>
</tr>
<tr>
<td>AFAM 202</td>
<td>Introduction to African-American Studies</td>
</tr>
<tr>
<td>ANTH 355</td>
<td>Language, Culture, and Society</td>
</tr>
<tr>
<td>ANTH 381</td>
<td>Gender and Globalization</td>
</tr>
<tr>
<td>ANTH 553</td>
<td>Anthropological Approaches to Narrative and Performance</td>
</tr>
<tr>
<td>ANTH 556</td>
<td>Language and Globalization</td>
</tr>
<tr>
<td>ANTH 581</td>
<td>Globalization and Cultural Questions</td>
</tr>
<tr>
<td>ARTH 335</td>
<td>History of 20th Century Art</td>
</tr>
<tr>
<td>CHIN 335</td>
<td>Women in China</td>
</tr>
<tr>
<td>CPLT 270</td>
<td>World Literature</td>
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</table>
CPLT 301 Great Books of the Western World I  
CPLT 302 Great Books of the Western World II  
CPLT 303 Great Books of the Eastern World  
EDUC 360 Global and Multicultural Perspectives on Education in International Settings  
ENGL 270 World Literature  
ENGL 390 Great Books of the Western World I  
ENGL 391 Great Books of the Western World II  
ENGL 392 Great Books of the Eastern World  
ENGL 437 Women Writers  
ENGL 455 Language in Society  
FAMS 240 Film and Media Analysis  
FAMS 300 Film and Media History  
FREN 397 The French Film Experience  
GEOG 311 Cultural Geography  
GEOG 312 Geography and Global Geopolitics  
GEOG 313 Economic Geography  
GEOG 569 International Development and the Environment  
GEOG 581 Globalization and Cultural Questions  
LING 340 Language, Culture, and Society  
LING 440 Language in Society  
LING 455Anthropological Approaches to Narrative and Performance  
LING 548 German Sociolinguistics  
RELG 333 Sex, Gender, and Religion  
RELG 471 Interfaith Dialogues in the 21st Century  
WGST 381 Gender and Globalization  
WGST 437 Women Writers  

Total Credit Hours 6

Global Concentrations (12-19 hours)
Courses selected to fulfill one of the following concentrations:

Leadership in the Global Economy (15-19 hours)
Prerequisite
Select one of the following:
ACCT 222 Survey of Accounting 3-6
RETL 261 Principles of Accounting I
& 262 Principles of Accounting II

Required Courses
Select one course from four of the following categories: 12-13
Environmental Studies:
ENVR 322 Environmental Ethics
ENVR 531 Sustainability Management and Leadership Strategies
ENVR 548 Environmental Economics

Geography:
GEOG 311 Cultural Geography
GEOG 312 Economic Geography
GEOG 581 Globalization and Cultural Questions

Journalism:
JOUR 504 International Mass Communications

Management:
MGMT 403 Leadership in Organizations

Music:
MUSC 580 Music & Arts Entrepreneurship
MUSC 582 Music and Money

Philosophy:
PHIL 320 Ethics
PHIL 322 Environmental Ethics
PHIL 323 Ethics of Science and Technology
PHIL 324 Business Ethics

Political Science:
POLI 315 International Relations
POLI 330 International Organization
POLI 370 Introduction to Public Administration
POLI 371 Politics of Taxing and Spending
POLI 373 Regulatory Policies
POLI 374 Public Policy
POLI 433 Economic Aspects of International Politics

Library and Information Science:
SLIS 315 Information Policy
SLIS 410 Knowledge Management
SLIS 440 Competitive Intelligence

Social Work:
SOWK 307 International Social Work and Social Justice

Women's and Gender Studies:
WGST 352 Gender and Politics

WGST 381 Gender and Globalization

Total Credit Hours 15-19

World Region (9 hours)
Three courses selected from one of the following area studies groups. See entries for minors in these areas in the undergraduate Bulletin for lists of approved courses. Special topics courses with appropriate content may be applied to the world region requirements with approval of the advisor.

• African Studies
• Asian Studies
• European Studies
• Middle East and North Africa (Islamic World Studies)
• Latin American Studies
• Russian and Eurasian Studies

Major Electives (0-3 hours)
One course from any of the approved global theme, global concentration, or world region courses. Students completing a concentration are exempt from this requirement.

Note: Students are strongly encouraged to spend a period of time overseas, preferably in a country where they can develop their language skills. Participating in a study abroad program or an overseas work experience are two ways to gain an international experience. A period of a semester or full year is most beneficial. Approved study abroad courses
may apply to some Global Studies major requirements, with permission of the advisor and the College.

**Major Map**
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**Global Studies, B.A. No Concentration**

**Global Studies, B.A. Leadership in the Global Economy Concentration**

**Interdisciplinary Studies, B.A.I.S. (College of Arts and Sciences)**

**Learning Outcomes**

- Students will identify interdisciplinary approaches to scholarship through thematic or problem-focused study. They will demonstrate the ability to use information, concepts, analytical approaches, and methods involved in at least two related fields.
- Students in the BAIS and BSIS programs will synthesize a personalized set of outcomes and independently work towards achieving them.
- Students in the BAIS or BSIS program will be admitted to graduate/professional school or will be hired in entry-level positions in their fields within three (3) years of graduation.

**Admissions**

**Entrance Requirements**
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

**Degree Requirements (120 hours)**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>22-37</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>36</td>
</tr>
</tbody>
</table>

1. **Carolina Core Requirements (32-44 hours)**

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours) must be passed with a grade of C or higher

- any CC-CMW courses (http://www.sc.edu/about/offices_/undergraduate/carolina-core-courses/and_divisions/provost/academicpriorities/undergradstudies/carolinacore/courses/foundational-courses.php?search=CMW)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)
For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (4-25 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (36 hours)
A minimum grade of C is required in all major courses.

Each student must complete a program of studies designed by an interdisciplinary program committee appointed by the College Academic Affairs and Advising Office. The program shall include a minimum of 36 semester hours of credit in major eligible courses in two or more fields. No course submitted in fulfillment of the general education requirements may be included in the program requirements. A maximum of 15 semester hours of independent study courses may be applied to the interdisciplinary studies program requirement.

Procedure
The following procedures shall be followed in designing a program of interdisciplinary studies:
• The candidate shall apply to the College Academic Affairs and Advising Office for declaration of an interdisciplinary studies program.

• The candidate must submit to the College Academic Affairs and Advising Office a written statement of goals concerning a potential interdisciplinary studies program.

• The College Academic Affairs and Advising Office will help the candidate formulate an interdisciplinary program committee, which shall consist of faculty members from the student’s areas of interdisciplinary interest. The members of the interdisciplinary program committee shall be appointed by the College Academic Affairs and Advising Office, who will designate one member as chair and as the student’s academic advisor.

• The interdisciplinary program committee shall meet with the student and prepare a program of studies leading to the Bachelor of Arts in Interdisciplinary Studies. This program shall include a written justification for the specific program of studies designed with the student. The program of study must be approved by the committee prior to the completion of 75 hours. The committee and College Academic Affairs and Advising Office must approve any subsequent changes in the student’s program.

• The candidate’s academic advisor shall advise the student each semester and shall sign the necessary registration and other advisor’s forms. Advising shall adhere to the student’s approved program of studies. The academic advisor shall consult with the interdisciplinary program committee for approval should deviation from the original program become necessary or advisable. All changes shall be registered with the College Academic Affairs and Advising Office.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.

2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>20-35</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>36</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours) must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• MATH 141 or MATH 122
• MATH 142 or MATH 170 or MATH 172

SCI – Scientific Literacy (8 hours)

• Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
  • any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  • any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
  • any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
  • any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
  • any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
  • any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible
Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
  • only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 201</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

• Three hours of Social Science
• Three hours of Fine Arts or Humanities

3. Program Requirements (20-35 hours)
Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or
higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

**Electives (2-23 hours)**

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

**4. Major Requirements (36 hours)**

*A minimum grade of C is required in all major courses.*

Each student must complete a program of studies designed by an interdisciplinary program committee appointed by the College Academic Affairs and Advising Office. The program shall include a minimum of 36 semester hours of credit in major eligible courses in two or more fields. No course submitted in fulfillment of the general education requirements may be included in the program requirements. A maximum of 15 semester hours of independent study courses may be applied to the interdisciplinary studies program requirement.

**Procedure**

The following procedures shall be followed in designing a program of interdisciplinary studies:

- The candidate shall apply to the College Academic Affairs and Advising Office for declaration of an interdisciplinary studies program.
- The candidate must submit to the College Academic Affairs and Advising Office a written statement of goals concerning a potential interdisciplinary studies program.
- The College Academic Affairs and Advising Office will help the candidate formulate an interdisciplinary program committee, which shall consist of faculty members from the student's areas of interdisciplinary interest. The members of the interdisciplinary program committee shall be appointed by the College Academic Affairs and Advising Office, who will designate one member as chair and as the student's academic advisor.
- The interdisciplinary program committee shall meet with the student and prepare a program of studies leading to the Bachelor of Arts in Interdisciplinary Studies. This program shall include a written justification for the specific program of studies designed with the student. The program of study must be approved by the committee prior to the completion of 75 hours. The committee and College Academic Affairs and Advising Office must approve any subsequent changes in the student's program.
- The candidate's academic advisor shall advise the student each semester and shall sign the necessary registration and other advisor's forms. Advising shall adhere to the student's approved program of studies. The academic advisor shall consult with the interdisciplinary program committee for approval should deviation from the original program become necessary or advisable. All changes shall be registered with the College Academic Affairs and Advising Office.

### Bachelor of Science in Interdisciplinary Studies Degree After Completion of One Year of Medical or Dental School

Upon application to the College Academic Affairs and Advising Office, a student who has completed 90 hours or more of degree-applicable undergraduate work at the University of South Carolina (with the last 30 hours in residence at the University) with a grade point average of 2.00 or higher, will be granted the BSIS degree provided the following:

- The applicant has satisfied all graduation requirements for the BSIS degree in the College of Arts and Sciences, except for the final 30 hours.
- The applicant has not applied these University of South Carolina credits to obtaining a baccalaureate degree from any institution.
- The applicant submits documents from an accredited medical or dental school demonstrating satisfactory completion of the first year of study leading to a post-baccalaureate degree.
- The applicant has the program of study approved by the College Academic Affairs and Advising Office.
- The College Academic Affairs and Advising Office certifies that the requirements prescribed for the degree have been met.

Interested students enrolled at the University should consult the College Academic Affairs and Advising Office for details concerning this option.

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**Islamic World Studies Minor**

**Minor Requirements (18 Hours)**

#### Core Courses (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 237</td>
<td>Cultures of Islam</td>
<td>6</td>
</tr>
<tr>
<td>ANTH 238</td>
<td>Middle Eastern Cultures</td>
<td></td>
</tr>
<tr>
<td>GEOG 226</td>
<td>Geography of the Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 104</td>
<td>Introduction to the Civilization of the Islamic Middle East</td>
<td></td>
</tr>
<tr>
<td>RELG 250</td>
<td>Introduction to Islam</td>
<td></td>
</tr>
</tbody>
</table>

| Total Credit Hours | 6 |

#### Electives (12 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 237</td>
<td>Cultures of Islam</td>
<td></td>
</tr>
<tr>
<td>ANTH 238</td>
<td>Middle Eastern Cultures</td>
<td></td>
</tr>
<tr>
<td>ANTH 240</td>
<td>South Asian Cultures</td>
<td></td>
</tr>
</tbody>
</table>

| Select four of the following: ¹ | 12 |

¹ Students must choose courses in two differentfields. Students may select courses from the list above or consult with their advisor for alternative options.
| ANTH 241 | Southeast Asian Cultures |
| ANTH 515 | Tradition and Transformations in Islamic Cultures |
| ARAB 201 | Intermediate Arabic |
| ARAB 202 | Intermediate Arabic |
| ARAB 280 | Introduction to Modern Arab Culture |
| ARAB 301 | Advanced Arabic Language I |
| ARAB 302 | Advanced Arabic Language II |
| ARAB 310 | Conversational Arabic |
| ARAB 320 | Introduction to Modern Arab Literature in Translation |
| ARAB 398 | Selected Topics |
| FREN 453 | Francophone Literatures and Cultures |
| GEOG 226 | Geography of the Middle East |
| HIST 104 | Introduction to the Civilization of the Islamic Middle East |
| HIST 327 | The Crusades |
| HIST 347 | The Middle East in Modern Times |
| HIST 348 | North Africa from Colonialism to Revolution: 1830-1962 |
| HIST 349 | The Contemporary Middle East and North Africa |
| HIST 365 | East Africa and the Indian Ocean World |
| RELG 369 | Islamic Law |
| HIST 386 | Islamic Institutions and Traditions |
| HIST 562 | The Middle East and the United States: 1800 to the Present |
| HIST 389 | Science, Magic and Religion |
| IBUS 428 | Islamic Economics and Finance |
| JSTU 387 | Jews and Muslims |
| POLI 103E | Controversies in the Politics of Global Regions: Middle East |
| POLI 449 | International Relations of the Middle East |
| POLI 483 | Middle East Politics |
| RELG 250 | Introduction to Islam |
| RELG 358 | The Qur'an and Hadith |
| RELG 359 | Islamic Theology and Philosophical Thought |
| RELG 367 | Sufism |
| RELG 387 | Jews and Muslims |

**Latin American Studies Minor**

Minor Requirements (18 Hours)

The interdisciplinary minor in Latin American Studies requires a minimum of 18 credit hours. Because LASP is an interdisciplinary program, we encourage students to take LASP courses offered in the academic disciplines of history, political science, anthropology, geography, literature and languages, and additional areas as they are offered. Coursework in at least two disciplines is required for the minor. Students pursuing the minor in Latin American Studies are required to select Spanish or Portuguese as their language of study, and they must complete at least one 3-hour course at the 200-level in that language. The 200-level course (or equivalent demonstration of language proficiency) is considered a prerequisite for the minor and will not count as part of the 18 hours. Examples of courses offered regularly that could be taken by students minoring in LASP are listed below. In addition to these, there are often Special Topics courses appearing on the course schedule as sections of LASP 398.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LASP 311</td>
<td>Latin American Cultures</td>
</tr>
<tr>
<td>LASP 322</td>
<td>Mesoamerican Prehistory</td>
</tr>
<tr>
<td>LASP 331</td>
<td>Geography of Latin America</td>
</tr>
<tr>
<td>LASP 342</td>
<td>Modern Latin America</td>
</tr>
<tr>
<td>LASP 351</td>
<td>Politics and Governments of Latin America</td>
</tr>
<tr>
<td>LASP 361</td>
<td>Spanish American Civilization</td>
</tr>
<tr>
<td>LASP 371</td>
<td>Literary Tendencies and Masterpieces of Spanish America</td>
</tr>
<tr>
<td>LASP 451</td>
<td>International Relations of Latin America</td>
</tr>
</tbody>
</table>

Note: Courses pertinent to Latin American Studies but not listed as LASP courses may be approved for credit in the minor, if appropriate, by the LASP Director.

**Jewish Studies Minor**

Minor Requirements

A total of 18 credit hours in Jewish Studies courses is required in the following categories for a Jewish Studies Minor degree.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>JSTU 381</td>
<td>Jewish History I: Late Antiquity to 1500 or JSTU 382</td>
</tr>
</tbody>
</table>

Select five courses selected from the following list of program electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBR 121</td>
<td>Elementary Hebrew</td>
</tr>
<tr>
<td>HEBR 122</td>
<td>Basic Proficiency in Hebrew</td>
</tr>
<tr>
<td>HEBR 201</td>
<td>Intermediate Hebrew</td>
</tr>
<tr>
<td>HEBR 202</td>
<td>Intermediate Hebrew</td>
</tr>
<tr>
<td>JSTU 230</td>
<td>Introduction to Judaism</td>
</tr>
<tr>
<td>JSTU 301</td>
<td>Hebrew Bible (Old Testament)</td>
</tr>
<tr>
<td>JSTU 373</td>
<td>Literature and Film of the Holocaust</td>
</tr>
<tr>
<td>JSTU 381</td>
<td>Jewish History I: Late Antiquity to 1500</td>
</tr>
<tr>
<td>JSTU 382</td>
<td>Jewish History II: 1500 to the Present</td>
</tr>
<tr>
<td>JSTU 387</td>
<td>Jews and Muslims</td>
</tr>
<tr>
<td>JSTU 475</td>
<td>Visions of Apocalypse</td>
</tr>
<tr>
<td>JSTU 491</td>
<td>Special Topics in Jewish Studies</td>
</tr>
</tbody>
</table>

Total Credit Hours: 18

1. Course choices must include at least one of the listed courses in Religious Studies unless taken to fulfill other degree requirements.

Note: ARAB 121 and ARAB 122 are recommended as choices for the foreign language requirement. Students may apply credits from special topics courses offered by any Arts and Sciences department toward the Islamic World Studies minor. To count toward the minor, the majority of material covered in a special topics course must relate to Islam, Muslim populations, and/or Islamic World contexts. Approval of special topics courses is at the discretion of the Program Director.
Law and Society Interdisciplinary Minor

Minor Requirements (18 hours)

The Law and Society minor consists of 18 credit hours or 6 courses.

- Two courses (6 hours) must be chosen from offerings listed under “Foundational Courses” (Group A).
- Four Courses (12 hours) must be chosen from offerings listed under “Specialized Courses” (Group B).

**Course** | **Title** | **Credits**
--- | --- | ---
Group A: Foundational
Selection two of the following: | 6
ANTH 102 | Understanding Other Cultures
ANTH 230 | Diversity in the United States
ECON 224 | Introduction to Economics
HIST 201 | American Founding Documents
PHIL 101 | Special Topics in Philosophy
PHIL 102 | Introduction to Philosophy
PHIL 103 | Special Topics in Ethics and Values
PHIL 114 | Introduction to Formal Logic I
PHIL 115 | Introduction to Formal Logic II
PHIL 211 | Contemporary Moral Issues
PHIL 212 | Images of the Human Person
PHIL 213 | Communicating Moral Issues
POLI 109 | Controversies in Public Policy
POLI 201 | American National Government
POLI 202 | Policies and Functions of American Government
SPCH 140 | Public Communication
SPCH 213 | Communicating Moral Issues
SPCH 260 | Argumentation and Debate

Group B: Specialized
Selection four of the following: | 12
ACCT 324 | Survey of Commercial Law
ANTH 353 | Anthropology of Law and Conflict
ECON 508 | Law and Economics
ENGL 340 | Literature and Law
ENGL 387 | Introduction to Rhetoric
ENGL 462 | Technical Writing
ENGL 463 | Business Writing
FAMS 308 | Global Media Industries
GEOG 515 | Political Geography
GLST 308 | Global Media Industries
HIST 469 | Constitutional History of the United States
HIST 470 | Constitutional History of the United States
HRTM 357 | Hotel and Restaurant Law
HRTM 382 | Travel and Tourism Law
JOUR 303 | Law and Ethics of Mass Communications
MGMT 407 | Corporate Social Responsibility and Stakeholder Management
PHIL 320 | Ethics
PHIL 330 | Social and Political Philosophy
PHIL 331 | Crime and Justice
PHIL 329 | Law and Religion
PHIL 352 | Freedom and Human Action
POLI 300 | Social and Political Philosophy
POLI 302 | Classical and Medieval Political Theory
POLI 303 | Modern Political Theory
POLI 304 | Contemporary Political Theory
POLI 352 | Gender and Politics
POLI 420 | International Law
POLI 421 | Law and Contemporary International Problems
POLI 450 | Constitutional Law
POLI 451 | Constitutional Law
POLI 452 | The Judicial Process
POLI 453 | Moot Court and Legal Research
POLI 454 | Women and the Law
POLI 554 | Law and Society
RELG 339 | Law and Religious Traditions
RETL 525 | Legal Aspects of Entrepreneurship and E-Commerce
RETL 530 | Fashion and the Law
SLIS 315 | Information Policy
SLIS 415 | Social Informatics
SOCY 309 | An Introduction to Social Inequality
SOCY 340 | Introduction to Social Problems
SOCY 507 | Sociology of Social Control
SOCY 540 | Sociology of Law
SPCH 331 | Organizational Communication
SPCH 380 | Persuasive Communication
SPCH 387 | Introduction to Rhetoric
SPCH 448 | Contemporary Political Rhetoric
SPCH 543 | Communication, Law, and Society
SPTE 240 | Business Law
SPTE 320 | Sport and the Law
SPTE 342 | Sport and Entertainment Contracts and Negotiations
SPTE 402 | Entertainment and the Law
WGST 352 | Gender and Politics
WGST 454 | Women and the Law

**Total Credit Hours** | 18

Note: Departmental or Honors College special topics courses focused on law and society may satisfy minor requirements in either Group A or B, provided that the course substitutions are pre-approved by the office of the Dean of Undergraduate Student Affairs and Advising in Flinn Hall, in consultation with faculty content experts; bring a syllabus for the course you want pre-approved. Appeals to register in pre-approved honors college courses should be directed to the Honors College.

Linguistics Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 320</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 330</td>
<td>Social and Political Philosophy</td>
<td>3</td>
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</table>
Medical Humanities and Culture Minor

Minor Requirements
The minor in Medical Humanities and Culture consists of 18 credit hours or 6 classes.

- **Two-four courses (6-12 credit hours)** must be chosen from offerings in the humanities (Group A); if two humanities courses (6 hours) are chosen, then 12 hours must be chosen from the social sciences, so that the student takes the requisite 18 hours total.

- **Two-four courses (6-12 credit hours)** must be chosen from offerings in the social sciences (Group B); if two social sciences courses (6 hours) are chosen, then four courses (12 hours) must be chosen in the humanities, so that the student takes the requisite 18 hours total.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Group A: Humanities</strong></td>
<td></td>
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<tr>
<td>ARTH 333</td>
<td>Art, Anatomy, and Medicine, 1700-Present</td>
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<tr>
<td>CLAS 230</td>
<td>Medical and Scientific Terminology</td>
<td></td>
</tr>
<tr>
<td>CLAS 360</td>
<td>Classical Origins of Western Medical Ethics</td>
<td></td>
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<tr>
<td>ENGL 341</td>
<td>Literature and Medicine</td>
<td></td>
</tr>
<tr>
<td>HIST 393</td>
<td>Making Modern Science: The Life Sciences</td>
<td></td>
</tr>
<tr>
<td>HIST 451</td>
<td>The History of American Medicine</td>
<td></td>
</tr>
<tr>
<td>HIST 452</td>
<td>The History of Science in America</td>
<td></td>
</tr>
<tr>
<td>JOUR 507</td>
<td>Communicating Science, Health and the Environment</td>
<td></td>
</tr>
<tr>
<td>PHIL 312</td>
<td>Classical Origins of Western Medical Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Medical Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 323</td>
<td>Ethics of Science and Technology</td>
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<tr>
<td>PHIL 360</td>
<td>History and Philosophy of Science</td>
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<tr>
<td>PHIL 362</td>
<td>Philosophy of Research Design in Science and Medicine</td>
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<td>PHIL 512</td>
<td>Philosophy of Science</td>
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<td>PHIL 550</td>
<td>Health Care Ethics</td>
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<tr>
<td>PHIL 598</td>
<td>Readings in Philosophy</td>
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<td>RELG 473</td>
<td>Religions, Medicines, and Healing</td>
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<td>SPAN 360</td>
<td>Spanish for Healthcare Professionals</td>
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<td>THEA 554</td>
<td>Performing Arts Safety</td>
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<td><strong>Group B: Social Sciences</strong></td>
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<td>6-12</td>
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<tr>
<td>ANTH 204</td>
<td>Plagues Past and Present</td>
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<tr>
<td>ANTH 208</td>
<td>Anthropology of Globalization and Development</td>
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<tr>
<td>ANTH 212</td>
<td>Food and Culture</td>
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<tr>
<td>ANTH 221</td>
<td>Forensics of Sherlock Holmes</td>
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<tr>
<td>ANTH 262</td>
<td>Basic Forensic Anthropology</td>
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<tr>
<td>ANTH 263</td>
<td>Medical Experimentation and the Black Body</td>
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<tr>
<td>ANTH 366</td>
<td>Medicine, Disease and Slavery</td>
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</tr>
<tr>
<td>ANTH 388</td>
<td>Cultures, Pregnancy, and Birth</td>
<td></td>
</tr>
<tr>
<td>ANTH 551</td>
<td>Medical Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 552</td>
<td>Medical Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 557</td>
<td>Psychological Anthropology</td>
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</tr>
<tr>
<td>ANTH 565</td>
<td>Health and Disease in the Past</td>
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<tr>
<td>ECON 531</td>
<td>Health Economics</td>
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</tr>
<tr>
<td>ENHS 323</td>
<td>Global Environmental Health</td>
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<tr>
<td>ENHS 324</td>
<td>Environment and Obesity</td>
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<tr>
<td>ENHS 660</td>
<td>Concepts of Environmental Health Science</td>
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<tr>
<td>ENVR 323</td>
<td>Global Environmental Health</td>
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<tr>
<td>HPEB 511</td>
<td>Health Problems in a Changing Society</td>
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<td>HPEB 512</td>
<td>Southern Discomfort: Public Health in the American South</td>
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<tr>
<td>HPEB 513</td>
<td>Race, Ethnicity, and Health: Examining Health Inequalities</td>
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<tr>
<td>HPEB 547</td>
<td>Consumer Health in Contemporary Society</td>
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<tr>
<td>HPEB 551</td>
<td>Medical Anthropology</td>
<td></td>
</tr>
<tr>
<td>HPEB 552</td>
<td>Medical Anthropology</td>
<td></td>
</tr>
<tr>
<td>HPEB 560</td>
<td>Cooking Up a Storm: Food, Globalization, Localization, and Health in the South</td>
<td></td>
</tr>
<tr>
<td>HPEB 621</td>
<td>Maternal and Child Health</td>
<td></td>
</tr>
<tr>
<td>HSPM 412</td>
<td>Health Economics</td>
<td></td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td></td>
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<tr>
<td>MGMT 374</td>
<td>Strategic Human Resource Management</td>
<td></td>
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<tr>
<td>PSYC 465</td>
<td>Health Psychology</td>
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<tr>
<td>PSYC 503</td>
<td>Psychology of Drug Use and Effects</td>
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<tr>
<td>SLIS 415</td>
<td>Social Informatics</td>
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<tr>
<td>SOCY 310</td>
<td>Social Demography</td>
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</tr>
<tr>
<td>SOCY 315</td>
<td>Global Population Issues</td>
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<tr>
<td>SOCY 360</td>
<td>Sociology of Medicine and Health</td>
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<tr>
<td>SOCY 510</td>
<td>Life Course Demographics</td>
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<td>WGST 113</td>
<td>Women's Health</td>
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<td>WGST 388</td>
<td>Cultures, Pregnancy, and Birth</td>
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<tr>
<td>WGST 621</td>
<td>Maternal and Child Health</td>
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</tbody>
</table>

**Total Credit Hours:** 12-24

Note: Departmental or Honors College special topics courses related to medicine may satisfy the minor requirements in either the humanities (Group A) or social sciences (Group B), provided that the course substitutions are pre-approved by the office of the Dean of Undergraduate Student Affairs and Advising in Flinn Hall in consultation with faculty content experts; bring a syllabus to Flinn Hall for the course you want pre-approved. Appeals to register in pre-approved honors college courses should be directed to the Honors College.

Medical Humanities Minor

George Khushf, Director

This minor is designed primarily for students intending to go into medicine. It will provide an understanding of the ethical issues as well as a selective examination of sociocultural, legal, economic, and political factors that condition medical knowledge and practice. The minor will
also be valuable for students interested in health law or other areas directly related to the health professions.

**Application**

Students must complete an application, and qualify for the medical humanities minor. Applications can be submitted any time after the freshman year (30 credit hours completed). Normally, students will be expected to have at least a 3.3 grade point ratio. Applications will be evaluated by a Medical Humanities Education Committee, and they will be judged on overall academic merit. Application forms can be obtained from the Department of Philosophy, College of Arts and Sciences (Flinn 101), and the Honors College.

**Opportunity to Participate in Honors College Courses**

Several courses in the medical humanities minor will be offered as honors courses. Students minoring in medical humanities will be able to take these courses, and they will have priority in registration, even over Honors College students who are not minoring in medical humanities. This will provide students outside of the Honors College with the opportunity to do extensive course work in the Honors College.

**Minor Requirements (18 Hours)**

18 credit hours are required to satisfy the minor. There is one required course (3 credit hours). Three additional courses (9 credit hours) must be chosen from offerings in Group A. Remaining courses (6 credit hours) can be chosen from either Group A or Group B. Additional Honors proseminars in the medical humanities may satisfy minor requirements in either Group A or B, provided the course substitutions are approved by the Medical Humanities Education Committee.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 321</td>
<td>Medical Ethics</td>
<td>3</td>
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</table>

**Group A**

Select at least three of the following: 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ANTH 551</td>
<td>Medical Anthropology. Fieldwork</td>
<td>3</td>
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<tr>
<td>ANTH 552</td>
<td>Medical Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 565</td>
<td>Health and Disease in the Past</td>
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</tr>
<tr>
<td>ANTH 568</td>
<td>Nutritional Anthropology</td>
<td></td>
</tr>
<tr>
<td>ECON 531</td>
<td>Health Economics</td>
<td></td>
</tr>
<tr>
<td>HIST 451</td>
<td>The History of American Medicine</td>
<td></td>
</tr>
<tr>
<td>HIST 452</td>
<td>The History of Science in America</td>
<td></td>
</tr>
<tr>
<td>HPEB 551</td>
<td>Medical Anthropology: Field Work</td>
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<tr>
<td>HPEB 552</td>
<td>Medical Anthropology</td>
<td></td>
</tr>
<tr>
<td>PHIL 211</td>
<td>Contemporary Moral Issues</td>
<td></td>
</tr>
<tr>
<td>PHIL 323</td>
<td>Ethics of Science and Technology</td>
<td></td>
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<tr>
<td>PHIL 360</td>
<td>History and Philosophy of Science</td>
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<tr>
<td>PHIL 512</td>
<td>Philosophy of Science</td>
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<tr>
<td>PHIL 514</td>
<td>Ethical Theory</td>
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<tr>
<td>PHIL 550</td>
<td>Health Care Ethics</td>
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<tr>
<td>POLI 374</td>
<td>Public Policy</td>
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<tr>
<td>PSYC 410</td>
<td>Behavioral and Mental Disorders</td>
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<td>PSYC 465</td>
<td>Health Psychology</td>
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<tr>
<td>SOCY 313</td>
<td>Sociology of Aging</td>
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**Group B**

Select one or two of the following: 6

<table>
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<tr>
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<tbody>
<tr>
<td>ANTH 261</td>
<td>Human Variation</td>
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<td>ANTH 557</td>
<td>Psychological Anthropology</td>
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<tr>
<td>CLAS 230</td>
<td>Medical and Scientific Terminology</td>
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<tr>
<td>CRJU 426</td>
<td>Criminal Justice and Mental Health</td>
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<tr>
<td>FINA 341</td>
<td>Management of Risk and Insurance</td>
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<tr>
<td>HIST 108</td>
<td>Science and Technology in World History</td>
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<tr>
<td>HPEB 684</td>
<td>HIV/STI Prevention</td>
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</table>

**Total Credit Hours** 18

**Courses Approved for Previous Terms & Special Topics Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFAM/PSYC 330</td>
<td>Psychology and the African-American Experience (approved for Spring 2000)</td>
<td>3</td>
</tr>
<tr>
<td>CLAS/PHIL 360</td>
<td>Classical Origins of Western Medical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 429</td>
<td>Topics in American Literature</td>
<td>3</td>
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<tr>
<td>ENGL 490</td>
<td>Topics in Advanced Study</td>
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<tr>
<td>HPEB 492/SOST 500</td>
<td>Special Topics in Health Promotion, Education, and Behavior (approved for Spring 2010)</td>
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<tr>
<td>HPEB 502</td>
<td>Applied Aspects of Human Nutrition</td>
<td>3</td>
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<tr>
<td>HPEB 513</td>
<td>Race, Ethnicity, and Health: Examining Health Inequalities (approved for Spring 2011)</td>
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<tr>
<td>PHIL 312</td>
<td>Classical Origins of Western Medical Ethics (approved for Spring 2010)</td>
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<tr>
<td>PSYC/AFAM 330</td>
<td>Psychology and the African-American Experience (approved for Spring 2003)</td>
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<td>SCHC 330</td>
<td>HNRS: Proseminar in Psychology</td>
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<td>SCHC 331</td>
<td>HNRS: Proseminar in Sociology</td>
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</tr>
<tr>
<td>SCHC 332</td>
<td>HNRS: Proseminar in Anthropology</td>
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<td>SCHC 332</td>
<td>HNRS: Proseminar in Anthropology</td>
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<td>SCHC 360</td>
<td>HNRS: Proseminar in Philosophy</td>
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<td>HNRS: Proseminar in Philosophy</td>
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<tr>
<td>SCHC 361</td>
<td>HNRS: Proseminar: Religious Studies</td>
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<td>SCHC 362</td>
<td>HNRS: Proseminar in Religious Studies</td>
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<tr>
<td>SCHC 364</td>
<td>HNRS: Proseminar in Spanish</td>
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<td>SCHC 383</td>
<td>HNRS: Interdisciplinary Proseminars</td>
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<tr>
<td>SCHC 384</td>
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<tr>
<td>SCHC 386</td>
<td>HNRS: Interdisciplinary Proseminars</td>
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<td>SCHC 391</td>
<td>HNRS: Proseminar</td>
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<td>SCHC 402</td>
<td>HNRS: Proseminar in Biology</td>
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<td>SCHC 430</td>
<td>HNRS: Proseminar in Psychology</td>
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<td>SCHC 432</td>
<td>HNRS: Proseminar in Anthropology</td>
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<td>SCHC 433</td>
<td>HNRS: Proseminar in Political Science</td>
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<td>SCHC 457</td>
<td>HNRS: Proseminar in Literature</td>
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<td>SCHC 460</td>
<td>HNRS: Proseminar in Philosophy</td>
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**Courses Approved for Previous Terms & Special Topics Courses**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SOCY 322</td>
<td>Sociology of Suicide</td>
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<tr>
<td>SOCY 360</td>
<td>Sociology of Medicine and Health</td>
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<tr>
<td>SOCY 460</td>
<td>Sociology of Mental Health</td>
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<tr>
<td>WGST 113</td>
<td>Women's Health</td>
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<tr>
<td>WGST 541</td>
<td>Issues in Women's Health</td>
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Renaissance Studies Minor

Minor Requirements (18 Hours)

Required Courses

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARTH 320</td>
<td>History of Italian Renaissance Art</td>
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<td>ARTH 321</td>
<td>History of Northern Renaissance Art</td>
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<td>ARTH 520</td>
<td>History of Renaissance Painting</td>
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<td>ARTH 521</td>
<td>History of Renaissance Sculpture</td>
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<td>ARTH 522</td>
<td>History of Renaissance Architecture</td>
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<td>ARTH 523</td>
<td>Florentine Art</td>
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<tr>
<td>CLAS 220</td>
<td>Introduction to Classical Mythology</td>
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<tr>
<td>CLAS 586</td>
<td>Classical Mythology</td>
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<tr>
<td>DANC 377</td>
<td>Historic Dance</td>
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<tr>
<td>ENGL 381</td>
<td>The Renaissance</td>
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<tr>
<td>ENGL 402</td>
<td>Tudor Literature</td>
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<td>ENGL 404</td>
<td>English Drama to 1660</td>
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<td>ENGL 405</td>
<td>Shakespeare's Tragedies</td>
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<tr>
<td>ENGL 406</td>
<td>Shakespeare's Comedies and Histories</td>
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<tr>
<td>FREN 451</td>
<td>French Literature and Culture Before 1800</td>
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<td>GERM 420</td>
<td>Medieval German Literature and Culture</td>
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<tr>
<td>HIST 307</td>
<td>Family and Society in Europe, c. 1200-1700</td>
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<tr>
<td>HIST 308</td>
<td>Magic and Witchcraft in Europe, c. 1200-1700</td>
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<tr>
<td>ITAL 411</td>
<td>Italian Literature in Translation</td>
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<tr>
<td>MUSC 353</td>
<td>History of Western Music I</td>
<td></td>
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<tr>
<td>PHIL 540</td>
<td>Renaissance Philosophy</td>
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<tr>
<td>POLI 302</td>
<td>Classical and Medieval Political Theory</td>
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<td>POLI 303</td>
<td>Modern Political Theory</td>
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<td>RELG 301</td>
<td>Hebrew Bible (Old Testament)</td>
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<tr>
<td>RELG 302</td>
<td>New Testament</td>
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<tr>
<td>SPAN 524</td>
<td>Renaissance and Golden Age Literature</td>
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<tr>
<td>THEA 550</td>
<td>History of Costume</td>
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<tr>
<td>THEA 561</td>
<td>History of the Theatre I</td>
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<td>THEA 567</td>
<td>Dramatic Theory I</td>
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<tr>
<td>Total Credit Hours</td>
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</tbody>
</table>

Note: Topics courses with appropriate content may be used as part of the minor.

Russian and Eurasian Studies Minor

Minor Requirements

Prerequisites

Two years of college-level study (or equivalent level of mastery) of Russian or one of the other languages of the region. The prerequisite may be satisfied by successful completion of RUSS 202 or a placement examination arranged with the RES Director.

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Course 1</td>
<td>Introduction to Russian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>History or Political Science Elective 1</td>
<td>Politics and Government of Russia</td>
<td>3</td>
</tr>
<tr>
<td>Electives 2</td>
<td>Selected Topics</td>
<td>12</td>
</tr>
<tr>
<td>FORL 398</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>HIST 342</td>
<td>The Slavs in History</td>
<td></td>
</tr>
<tr>
<td>HIST 343</td>
<td>The Fall of the Eastern European Empires</td>
<td></td>
</tr>
<tr>
<td>HIST 344</td>
<td>Eastern Europe Since WWI</td>
<td></td>
</tr>
<tr>
<td>POLI 440</td>
<td>Russian Foreign Policy</td>
<td></td>
</tr>
<tr>
<td>POLI 480</td>
<td>Politics and Government of Russia</td>
<td></td>
</tr>
<tr>
<td>RUSS 319</td>
<td>Nineteenth-Century Russian Literature in Translation</td>
<td></td>
</tr>
<tr>
<td>RUSS 320</td>
<td>Twentieth-Century Russian Literature in Translation</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

1 Students whose primary focus is a country other than Russian may petition the Director of Russian and Eurasian Studies to substitute a similar survey course on another region for RUSS 280 or the History or Political Science Elective.
Southern Studies Minor

Minor Requirements (18 Hours)
The minor requires a minimum of 18 credit hours, including:

Program Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOST 301</td>
<td>Introduction to Southern Studies 1580-1900</td>
<td>3</td>
</tr>
<tr>
<td>SOST 302</td>
<td>Introduction to Southern Studies: The Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Four additional courses drawn from at least two different disciplines</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Note: Undergraduates may also pursue a cognate in Southern Studies by taking four SOSC courses or concentrate in the field through the Bachelor of Arts in Interdisciplinary Studies (B.A.I.S.) degree program.

Women's and Gender Studies Minor

Minor Requirements (18 Hours)

Core Courses (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 112</td>
<td>Introduction to Women's and Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>WGST 113</td>
<td>Women's Health</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

Additional Courses (12 Hours)
Select twelve hours from the following:

- 3 hours of WGST courses or cross-listed courses numbered 200 and above as approved by the program.
- 9 hours of WGST courses or cross-listed courses numbered 300 and above, or courses relevant to WGST numbered 300 and above, as approved by the program.

Notes
Occasionally, special topics courses offered by various academic departments and approved by Women's and Gender Studies may also be applied to the minor.

No more than one Independent Study course (3 hours) may be applied to the minor. Independent Study requires the approval of the Director of Women's and Gender Studies.

Women's and Gender Studies, B.A.

Learning Outcomes

- Students will demonstrate a basic understanding of feminist concepts and analysis.
- Students will demonstrate understanding of diversity by gender, race, ethnicity, social class, sexuality, and nationality.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>34-49</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>24</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
must be passed with a grade of C or higher

- any CC-CMW course (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP course (p. 743)

SCI – Scientific Literacy (8 hours)

- two 4-credit hour CC-SCI laboratory science courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing...
the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- WGST 112 — should be taken in the first 45 hours

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

3. Program Requirements (34-49 hours)
Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 12 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).
Electives (16-37 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (24 hours)
A minimum grade of C is required in all major courses.

Major Courses (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGST 113</td>
<td>Women’s Health</td>
<td>3</td>
</tr>
<tr>
<td>WGST 304</td>
<td>Race, Class, Gender, and Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>WGST 307</td>
<td>Feminist Praxis</td>
<td>3</td>
</tr>
<tr>
<td>or WGST 308</td>
<td>African-American Feminist Theory</td>
<td></td>
</tr>
<tr>
<td>WGST 320</td>
<td>Sexuality and Gender in Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>WGST 352</td>
<td>Gender and Politics</td>
<td></td>
</tr>
<tr>
<td>WGST 381</td>
<td>Gender and Globalization</td>
<td></td>
</tr>
<tr>
<td>WGST 555</td>
<td>Language and Gender</td>
<td></td>
</tr>
<tr>
<td>WGST 499</td>
<td>Community Service Internship (or a Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Project coordinated by WGST advisor)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 15

Major Electives (9 hours)
- WGST or approved discipline-based courses (9 hours)

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Women’s and Gender Studies, B.A.

Jewish Studies

Department Website (http://artsandsciences.sc.edu/jstp/)
F.K. Schoeman, Director

Judaism has been central to Western culture from antiquity to the present. Its contributions to Western civilization are deeply interwoven into both Jewish and non-Jewish Western cultural history, contributing significantly to art, language, law, literature, medicine, philosophy and political thought. Jewish Studies is thus an important component of the larger liberal arts curriculum. Its focus on important issues of group and national identity, Diaspora, genocide and cultural survival gives Jewish Studies particular relevance not merely to those who seek a richer understanding of the Jewish experience but also to scholars of other dispossessed or minority groups. Fundamentally interdisciplinary in its approach and international in its focus, the University of South Carolina’s Jewish Studies Program adds an important dimension to the scholarly work being done in Jewish Studies in South Carolina. The courses and activities of the program are designed to enhance our knowledge of Judaism’s role on the world stage and help students and scholars forge connections between Judaism in South Carolina and this larger context.

Courses

JSTU 218 - Convergence and Divergence in African American and Jewish Relations: Historical and Contemporary (3 Credits)
An examination of African American and Jewish American inter-ethnic, historical and contemporary connections and disconnections. Implications for educational, social, and social settings are considered.
Cross-listed course: AFAM 218, EDTE 218
Carolina Core: GSS, VSR

JSTU 230 - Introduction to Judaism (3 Credits)
Overview of Jewish experiences, beliefs, practices from a contextual point of view.
Cross-listed course: RELG 230

JSTU 301 - Hebrew Bible (Old Testament) (3 Credits)
Modern study of the Hebrew Bible from historical, literary, and archeological points of view. Reading and analysis of texts in translation.
Cross-listed course: RELG 301

JSTU 373 - Literature and Film of the Holocaust (3 Credits)
Film, poetry and literature created in response to the Holocaust as the means for a decades long cultural discussion, in European and American societies, of the moral and religious implications of the Holocaust on our self-understandings as religious and moral beings.
Cross-listed course: RELG 373
Graduation with Leadership Distinction: GLD: Global Learning

JSTU 381 - Jewish History I: Late Antiquity to 1500 (3 Credits)
The religious, cultural, social, and political conditions that shaped the Jewish experience in the Near East and Europe from Late Antiquity to 1500.
Cross-listed course: HIST 383, RELG 381

JSTU 382 - Jewish History II: 1500 to the Present (3 Credits)
Case studies of Jewish history in Europe, America, and the land of Israel, 1500 to the present.
Cross-listed course: HIST 384, RELG 382

JSTU 387 - Jews and Muslims (3 Credits)
Jewish-Muslim relations in the Near East and the US; an exploration of Jewish-Muslim encounters, issues of religious law, politics, radical religious ideologies, and their repercussions for today.
Cross-listed course: RELG 387

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

JSTU 388 - Kabbalah: Science, Religion and Nature in Western History (3 Credits)
Historical investigation of kabbalah, a philosophical system and mystical current common to Judaism, Islam, and Christianity, from the medieval period to the present; focus on its formative role in early modern Western cosmology and science, and its ecological implications today.
Cross-listed course: HIST 388, RELG 388
JSTU 471 - American Jewish History (3 Credits)
Examination of experiences of Jews in the United States from Colonial Period to late 20th century, especially Jewish immigration, political behavior, social mobility, religious affiliation, group identity formation, and meaning of Anti-Semitism in American and global contexts.

Cross-listed course: HIST 471

JSTU 475 - Visions of Apocalypse (3 Credits)
Symbolic visions, tours of heaven and hell, cosmic battles, divine judgment, messianic figures, prophecy, or other forms of revelation as found in literature, art, or social movements from diverse geographical and historical locations.

Cross-listed course: RELG 475

JSTU 491 - Special Topics in Jewish Studies (3 Credits)
Intensive study of special topics in Jewish Studies; may emphasize interdisciplinary themes. Maybe be repeated as content varies by title.

JSTU 492 - History of the Holocaust (3 Credits)
Introduction to Nazi Germany's systematic mass-murder of Europe's Jews and other minorities during war. Examination of forces that led to the Holocaust, including scientific racism, Nazi policy implementation, and dynamics of annihilation during war.

Cross-listed course: HIST 380

Languages, Literatures, and Cultures
Department Website (http://www.cas.sc.edu/dllc/)

Francisco J. Sanchez, Interim Chair

The department offers undergraduate majors in Chinese studies, classics, comparative literature, French, German, Russian, and Spanish, all leading to the bachelor of arts degree. The department offers minors in ancient Greek, Chinese studies, classical studies, comparative literature, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish. Minors in foreign languages generally require 18 hours of course work at the 200 level or above.

Advanced Standing

Students who have studied a foreign language during the five years preceding their enrollment at UofSC must take the placement test in that language. A maximum of 7 or 8 semester hours of advanced standing credit for 121-122 courses in one foreign language may be earned on the basis of completion (with a grade of B or better) of the first 200-level or above 3-credit course in that foreign language; 4 hours credit for 121 may be awarded for a grade of B or better in a 122 course. Courses that may not be offered for advanced standing credit are all CLAS courses, FREN 290, FREN 295, FREN 397, FREN 399, GERM 398, and GERM 399, LATN 399, SPAN 350, SPAN 398, and SPAN 399.

Exemptions

Students will not normally be permitted to repeat for credit foreign language units previously earned in high school or college. Freshmen achieving advanced standing at the University may be permitted to validate certain omitted courses, according to current regulations, and should consult the department for further information. Students who have learned English as a foreign language may, with the concurrence of the dean of their college and that of the chair of the department, be exempted from the language requirement without credit. Such students will, at the discretion of the department, be excluded from courses in their native language.

Programs

• Ancient Greek Literature Minor (p. 138)
• Chinese Studies Minor (p. 138)
• Chinese Studies, B.A. (p. 139)
• Classical Studies Minor (p. 141)
• Classics, B.A. (p. 141)
• Comparative Literature Minor (p. 144)
• Comparative Literature, B.A. (p. 144)
• Foreign Language Education Minor (p. 146)
• French Minor (p. 147)
• French, B.A. (p. 147)
• German Minor (p. 149)
• German, B.A. (p. 150)
• Italian Minor (p. 152)
• Japanese Minor (p. 153)
• Latin Minor (p. 153)
• Portuguese Minor (p. 153)
• Russian Minor (p. 153)
• Russian, B.A. (p. 153)
• Spanish Minor (p. 156)
• Spanish, B.A. (p. 156)

Courses

ARAB 121 - Elementary Arabic (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language. Offered only in fall.
Carolina Core: GFL

ARAB 122 - Basic Proficiency in Arabic (4 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills. Admission only by successful completion of Arabic 121. Offered only in spring.
Carolina Core: GFL

ARAB 201 - Intermediate Arabic (3 Credits)
Continuation of reading, writing, and speaking Arabic.
Prerequisites: ARAB 122.

ARAB 202 - Intermediate Arabic (3 Credits)
Increased emphasis on reading and writing skills in Arabic.
Prerequisites: ARAB 201.

ARAB 280 - Introduction to Modern Arab Culture (3 Credits)
Introduction to Arab culture (literature, music, film, and art) from the 19th century to the present.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ARAB 301 - Advanced Arabic Language I (3 Credits)
This course builds on grammar and vocabulary by reading and listening to authentic Arabic materials. By semester's end, the student will be able to write in detail and comprehend and use advanced vocabulary grammar and syntax in all forms of expression.
Prerequisites: Arabic 202 or equivalent.
ARAB 302 - Advanced Arabic Language II (3 Credits)
This course is a continuation of ARAB 301 and builds on grammar and vocabulary by reading and listening to authentic Arabic materials. By semester's end, the student will be able to write in detail and comprehend and use advanced vocabulary grammar and syntax.
Prerequisites: ARAB 301 or equivalent.

ARAB 310 - Conversational Arabic (3 Credits)
Practical drills in aural-oral skills to develop facility in the spoken language.
Prerequisites: ARAB 202.

ARAB 311 - Colloquial Arabic II (3 Credits)
Continued instruction in colloquial (spoken) Arabic with a focus on oral and aural competencies, discussing aspects of the local culture, and working with media produced in the local variety of Arabic. Course may be repeated as the variety of Arabic may change.
Prerequisites: ARAB 310 or equivalent.

ARAB 320 - Introduction to Modern Arab Literature in Translation (3 Credits)
Introduction to dominant trends and genres in nineteenth and twentieth century Arabic literature.

ARAB 398 - Selected Topics (3 Credits)
Selected literary topics of the Arab world. May be repeated for credit under different titles. Taught in English.

ARAB 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

ARAB 401 - Advanced Arabic I (3 Credits)
Acquisition of advanced grammar and vocabulary. Increased focus on reading, writing, and discussion in Modern Standard Arabic.
Prerequisites: C or better in ARAB 302 or equivalent.

ARAB 402 - Advanced Arabic II (3 Credits)
Continued acquisition of advanced grammar and vocabulary. Increased focus on reading, writing, and discussion in Modern Standard Arabic.
Prerequisites: ARAB 401 or equivalent.

ARAB 615 - Intensive Readings in Arabic (3 Credits)
Intensive reading for non-majors. Graduate students fulfill their foreign-language requirement with successful completion of the course. Undergraduates may take the course as an elective only. Grades S/U for graduates and undergraduates.

ASLG 121 - Elementary American Sign Language (4 Credits)
Introduction to basic vocabulary and common grammar structures of ASL. Focus on communication and familiarization with aspects of deaf culture. This course does not satisfy the foreign language requirements of any college.

ASLG 122 - Basic Proficiency in American Sign Language (4 Credits)
Practice and further development in the language and culture of the American deaf community. This course does not satisfy the foreign language requirement of any college.
Prerequisites: ASLG 121.

CHIN 103 - Introduction to Chinese Calligraphy (2 Credits)
Five hundred of the most commonly used Chinese characters. Emphasis is on the phonetic and significant elements common to large groups of ideograms.

CHIN 121 - Elementary Chinese Mandarin (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.
Carolina Core: GFL

CHIN 122 - Basic Proficiency in Mandarin Chinese (4 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills. Admission only by successful completion of Chinese 121.
Prerequisites: CHIN 121.
Carolina Core: GFL

CHIN 221 - Intermediate Mandarin Chinese (3 Credits)
Continued practice of basic sentence patterns used in modern speech with increased emphasis on reading and acquisition of additional characters.

CHIN 222 - Intermediate Mandarin Chinese II (3 Credits)
Continued practice of basic sentence patterns used in modern speech with increased emphasis on reading and acquisition of additional characters.

CHIN 240 - Chinese Culture, Tradition, and Modern Societies (3 Credits)
Introduction to Chinese culture, heritage, and modern societies. Readings selected from printed and online sources. Taught in English.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CHIN 312 - Advanced intermediate Mandarin Chinese I (3 Credits)
Provides advanced intermediate training in spoken and written Chinese. By increasing students’ vocabulary and knowledge of sentence patterns, the course focuses on speaking and writing in coherent, well-formed paragraphs.
Prerequisites: CHIN 222.

CHIN 322 - Advanced Intermediate Mandarin Chinese II (3 Credits)
Continues advanced intermediate training in spoken and written Chinese. Attention is given to complex grammatical patterns, discourse characteristics, and discussions of cultural topics.
Prerequisites: CHIN 321.

CHIN 335 - Women in China (3 Credits)
Introduces the connection between gender and the Chinese national imagination. Readings include cultural and historical documents that purport to explain the experience of women in China. Readings in English. Taught in English.
Cross-listed course: WGST 335
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CHIN 340 - Introduction to Premodern Chinese Literature (3 Credits)
An introduction to the most important works, authors, genres, and themes of Chinese literature from the first millennium B.C.E. to 1911.

CHIN 341 - Modern Chinese Literature (3 Credits)
Readings of canonical texts from modern Chinese literature. A focus is on the role of literature and other cultural documents in the imagination of China as a modern nation. Readings and discussion in English.

CHIN 365 - Screening China (3 Credits)
Survey of Chinese language cinema. Chinese film history and vocabulary with which to discuss film texts. Covers classic leftwing cinema, Hong Kong martial arts films, as well as the Hong Kong, Taiwan, and PRC New Waves. Taught in English. Films subtitled.
Cross-listed course: FAMS 365
CHIN 398 - Selected Topics (3 Credits)
Intensive study in selected authors or literary movements of China, including cultural aspects. May be repeated for credit under different titles. Taught in English.

CHIN 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

CHIN 421 - Advanced Chinese I (3 Credits)
Acquisition of advanced grammar and vocabulary. Emphasis on building oral proficiency in professional settings.
Prerequisites: CHIN 322.

CHIN 422 - Advanced Chinese II (3 Credits)
Continued acquisition of advanced grammar and vocabulary. Emphasis on expanding communicative abilities in a wider variety of interpersonal situations.
Prerequisites: CHIN 421.

CHIN 550 - Advanced Special Topics in Chinese Studies (3 Credits)
Advanced special topics in Chinese studies. May be repeated as content varies by title.

CLAS 220 - Introduction to Classical Mythology (3 Credits)
Major gods, goddesses, heroes, and heroines of classical mythology as portrayed in major literary works; the function of myth in society and its relevance to modern life.

Carolina Core: AIU

CLAS 230 - Medical and Scientific Terminology (3 Credits)
Greek and Latin elements in the formation of medical and scientific vocabulary; designed for students intending to enter the scientific and health professions. No previous knowledge of Greek or Latin required.

CLAS 240 - Sport and Combat in the Ancient World (3 Credits)
This course is designed to introduce students to the importance of competition in the military and private spheres of the Greco-Roman world, a dominant legacy of antiquity.

CLAS 301 - Ancient Philosophy (3 Credits)
An introduction to the work of ancient philosophers, with special emphasis on Plato and Aristotle.
Cross-listed course: PHIL 301

CLAS 302 - Greek and Roman Philosophy after Aristotle (3 Credits)
Problems such as hedonism, providence, belief and evidence, and mysticism, as they appear in the writings of the Epicureans, Stoics, Skeptics, and Plotinus.
Cross-listed course: PHIL 302

CLAS 305 - Greece and Rome in Film and Popular Culture (3 Credits)
Representations of antiquity in cinema, television, and other contemporary media, with emphasis on Hollywood's reception of Greek and Roman history.
Cross-listed course: HIST 305

CLAS 320 - Sexuality and Gender in Ancient Greece (3 Credits)
Gender roles, standards of sexual behavior, evidence for women's lives, as manifested in ancient Greek literary and archaeological evidence; attitudes toward homosexuality; the modern media's representation of famous Greeks.
Cross-listed course: WGST 320
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CLAS 321 - Sexuality, Gender, and Power in Ancient Rome (3 Credits)
Sexuality as a social construct exemplified in standards of sexual behavior in ancient Rome and their reinforcement of the ruling ideology; feminine virtue, definitions of manliness, attitudes toward homosexuality.
Cross-listed course: WGST 321

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CLAS 323 - Greek Civilization on Site (3 Credits)
Introduction to the history and culture of ancient Greece, combined with an excursion of Greece. Topics include: Mycenaean Greece and the world of Homer, Archaic Greece, oikos and polis, interaction with the Near East, Athens in the 5th and 4th century BCE, Greek religion, ancient Greek society.

CLAS 324 - Special Topics in Classical Humanities (3 Credits)
Intensive study of one topic per semester dealing with ancient contributions to Western civilization. Not for Greek or Latin major credit. In English. May be repeated as content varies by title.

CLAS 340 - Greek Art and Archaeology (3 Credits)
A survey of ancient architecture, painting, and sculpture 2000-160 B.C.

CLAS 360 - Classical Origins of Western Medical Ethics (3 Credits)
Examination of ancient Greek and Roman philosophical, medical, and literary works (in English) as sources for the origins of medical ethics. Priority enrollment for Medical Humanities students.
Cross-listed course: PHIL 312

CLAS 361 - Between Magic and Method: Ancient Medicine (3 Credits)
Introduction to ancient medicine: science and art, theory and practice, healing and predicting. Topics include Medicine before Hippocrates, Hippocratic medicine, holism, naturalism, medicine, religion and magic, medicine and scientific explanation, Hellenistic medicine and methodology, Galenic medicine.
Cross-listed course: PHIL 313

CLAS 401 - Greek and Latin Literature in Translation (3 Credits)
A comparative survey of Greek and Latin masters.

CLAS 469 - Classical Drama (3 Credits)
Representative plays by Greek and Roman dramatists.

CLAS 471 - Rhetoric and the Ancient Roots of Modern Life (3 Credits)
Classical rhetoric and its ongoing influence in the modern world, emphasizing how the study and use of language in ancient Greece and Rome continue to shape modern communication.
Cross-listed course: ENGL 471, SPCH 471

CLAS 586 - Classical Mythology (3 Credits)
The major Greek and Roman myths, with emphasis on their meaning, functions, and influence on ancient and later Western culture.

CLAS 598 - Classics of Western Literary Theory (3 Credits)
Problems of literary theory in texts from the ancients to the 17th century, with an emphasis on the classical tradition.
Cross-listed course: CPLT 701, ENGL 733

CPLT 150 - Values and Ethics in Literature (3 Credits)
Analysis of major works of world literature focusing on values, ethics, and social responsibility.

Carolina Core: AIU, VSR

CPLT 270 - World Literature (3 Credits)
Selected masterpieces of world literature from antiquity to the present.
Cross-listed course: ENGL 270
Carolina Core: AIU

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences
CPLT 300 - What is Comparative Literature (3 Credits)
Introduction to ways of reading and comparing literatures drawn from diverse languages and cultures.
Prerequisites: any 200-level literature course.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CPLT 301 - Great Books of the Western World I (3 Credits)
European masterpieces from antiquity to the beginning of the Renaissance.
Cross-listed course: ENGL 390
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CPLT 302 - Great Books of the Western World II (3 Credits)
European masterpieces from the Renaissance to the present.
Cross-listed course: ENGL 391
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CPLT 303 - Great Books of the Eastern World (3 Credits)
Classical and contemporary poetry and prose of the Middle and Far East.
Cross-listed course: ENGL 392
Graduation with Leadership Distinction: GLD: Global Learning

CPLT 380 - Epic to Romance (3 Credits)
Comprehensive exploration of medieval and other pre-Renaissance literature using texts representative of the evolution of dominant literary forms.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 380

CPLT 381 - The Renaissance (3 Credits)
Literature of the Renaissance, in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 381

CPLT 382 - The Enlightenment (3 Credits)
Literature of the Enlightenment in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 382

CPLT 383 - Romanticism (3 Credits)
Literature of Romanticism, in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 383

CPLT 384 - Realism (3 Credits)
Literature of Realism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 384

CPLT 385 - Modernism (3 Credits)
Literature of Modernism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 385

CPLT 386 - Postmodernism (3 Credits)
Literature of Postmodernism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 386

CPLT 415 - Topics in Comparative Literary Relations (3 Credits)
Topics involving two or more national literatures. Topics to be announced in master schedule by title.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CPLT 499 - Senior Thesis (3 Credits)
Graduation with Leadership Distinction: GLD: Research

CPLT 597 - Special Topics in Comparative Studies in Film and Media (3 Credits)
Topics in film and media from an international perspective. National cinematic traditions are compared and contrasted. May be repeated as content varies by title.
Graduation with Leadership Distinction: GLD: Global Learning

FORL 398 - Selected Topics (3 Credits)
Studies in language not otherwise taught. May include a cultural and/or linguistic component.

FORL 448 - Teaching Internship in Foreign Languages (3 Credits)
Application of effective teaching techniques and organization of instructional settings in foreign languages for K-12.
Prerequisites: admission to the professional program in education.

Cross-listed course: EDTE 448
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

FORL 472 - Introduction to Technology in Language Education (3 Credits)
Acquaints students with principles and practices concerning the use of technology in foreign language teaching. Explores connection between second language acquisition and the implementation of Internet and multimedia technologies.
Cross-listed course: LING 472

FORL 474 - Directed Teaching in Foreign Languages (15 Credits)
Students apply methods of curriculum and assessment, professionalism, effective teaching, and organization of instructional settings during internship in foreign language classroom.
Prerequisites: admission to the professional program in education.

Cross-listed course: EDTE 474
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
Experiential Learning: Experiential Learning Opportunity

FORL 501 - Spanish for Medical Personnel (3 Credits)
Basic course in health professions. Functional language and lexicon as well as cultural practices for interaction with Hispanic clients.
Prerequisites: 2 semesters of college-level Spanish or equivalent.
FORL 510 - Teaching Second Languages to Young Children (3 Credits)
To assist prospective teachers of young children in the development of a second language and multicultural learning activities. Practicum sessions are an integral part.
Prerequisites: 210 level of a foreign language or its equivalent.
Cross-listed course: EDEL 510
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

FORL 511 - Teaching Foreign Languages in Secondary Schools (3 Credits)
Current methods, techniques, and materials of instruction appropriate for secondary schools.
Prerequisites: 210 level of a foreign language or its equivalent.
Cross-listed course: EDSE 575

FORL 598 - Special Topics in Global Film and Media (3 Credits)
Intensive study of a specific topic concerning films produced in a country other than the United States. May be repeated as content varies by title.
Prerequisites: FAMS 240.
Cross-listed course: FAMS 598, MART 594

FREN 109 - Beginning French I (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Admission to FREN 109 restricted to those who have never studied French, who have not studied French in the previous five years, or who have a score of F-1 on the placement test.
Carolina Core: GFL

FREN 110 - Beginning French II (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Admission to 110 restricted to those who have completed FREN 109. Credit may be received only for one of the following: FREN 109/FREN 110 or FREN 121.
Prerequisites: FREN 109.
Carolina Core: GFL

FREN 121 - Elementary French (3 Credits)
Grammar and vocabulary necessary for fundamental communication skills. Assumes prior experience in French. Admission to FREN 121 restricted to those who have a score of F-2 on the placement test. Credit may be received for only one of the following: FREN 109/FREN 110 or FREN 121.
Carolina Core: GFL

FREN 122 - Basic Proficiency in French (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: FREN 110, FREN 121 or placement score of F-3.
Carolina Core: GFL

FREN 209 - Reading and Written Expression (3 Credits)
Readings in French; grammar, basic writing, and composition.
Prerequisites: FREN 122 or score of F-5 on placement exam.

FREN 210 - Oral Communication (3 Credits)
Practice in conversation involving authentic listening materials; vocabulary building.
Prerequisites: FREN 122 or score of F-5 on placement exam.

FREN 290 - French Literature in Translation (3 Credits)
Readings and discussion in English, with consideration of the cultural context.
Carolina Core: AIU

FREN 295 - Topics in French Culture (3 Credits)
Intensive one-term study of a particular topic identified by title. Taught in English.
Prerequisites: FREN 110, FREN 121, or equivalent.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

FREN 300 - French Phonetics (3 Credits)
Analysis of and practice in pronunciation and listening comprehension.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam.
Cross-listed course: LING 316

FREN 307 - Advanced Oral Practice (1 Credit)
Development and maintenance of speaking and listening skills at the advanced level. Offered Pass-Fail only. May be repeated.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam.

FREN 309 - Reading French Texts (3 Credits)
Reading, discussion, and written analysis of French texts, both literary and nonliterary.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam.

FREN 310 - Advanced Oral Communication (3 Credits)
Current issues and events presented in French-language media. Discussion and presentations in French provide practice with advanced structures and idiomatic speech.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam. Not open to students with a score of F-7.

FREN 311 - French Composition (3 Credits)
Practice in French composition; intensive review of French grammar.
Prerequisites: Grades of C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam. FREN 309 strongly recommended. Not open to students with score of F-7.

FREN 316 - Introduction to Business French (3 Credits)
Practical oral and written communication in a commercial context; introduction to business terminology and correspondence.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents.

FREN 330 - The French Theatre Experience (3 Credits)
Project work in the production of plays in French. Includes readings in and public performance of French theatre and related materials.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents.

FREN 350 - French Language Study Abroad (1-6 Credits)
Intensive language practice with special attention to oral skills. Classroom instruction by native speakers.

FREN 351 - Service Learning in the French-Speaking World (3 Credits)
Cultural and linguistic service-learning experience in a French-speaking environment. Course may be repeated once in a different location.
Prerequisites: FREN 209 or 210.
FREN 397 - The French Film Experience (3 Credits)
An introduction to the history of the French film, with special emphasis on the aesthetic appreciation of the films in their artistic and cultural context. Films in French, with English subtitles. Taught in English. To be counted towards FREN major or minor.
Prerequisites: C or better in both FREN 209 and FREN 210 are required, and FREN 309 is strongly recommended.

FREN 398 - Selected Topics in French & Francophone Culture (3 Credits)
Intensive study of selected topics of the French-speaking world. May be repeated for credit under a different title. May not be counted for major or minor credit. Note: Taught in English. To be counted towards FREN major or minor.
Prerequisites: C or better in both FREN 209 and FREN 210 are required, and FREN 309 is strongly recommended.

FREN 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-6 on the French language placement exam.
Graduation with Leadership Distinction: GLD: Research

FREN 400 - French Cultural History (3 Credits)
French history and the arts from early times through the Napoleonic era.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 416 - Advanced Business French (3 Credits)
Commercial organizations and businesses in France. Practical business correspondence. Terminology and techniques in commercial transactions with the Certificat Pratique of the Paris Chamber of Commerce in view. Taught in French.
Prerequisites: FREN 316.

FREN 450 - Topics in Literature (3 Credits)
May be repeated for credit.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 451 - French Literature and Culture Before 1800 (3 Credits)
Study and discussion of French works written before 1800 within their cultural and historical contexts.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 452 - French Literature and Culture After 1800 (3 Credits)
Study and discussion of French works written after 1800 within their cultural and historical contexts.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 453 - Francophone Literatures and Cultures (3 Credits)
Study and discussion of works from French-speaking societies outside France, with attention to their cultural contexts and historical contexts.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

Graduation with Leadership Distinction: GLD: Global Learning

FREN 499 - Senior Thesis (3 Credits)
Graduation with Leadership Distinction: GLD: Research

FREN 501 - Contemporary France (3 Credits)
Readings in and discussion of the culture of contemporary France.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 510 - Current Events in the France and the Francophone World (3 Credits)
Development of advanced oral skills in French. Study of linguistic and cultural aspects of French language media.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam.

FREN 511 - Techniques of Literary Analysis (3 Credits)
Texts from standard authors, with emphasis on explication de texte.
Prerequisites: C or better in each of FREN 309, FREN 310, and FREN 311, or equivalents, or a score of F-7 on the French language placement exam.

FREN 515 - Advanced French Stylistics (3 Credits)
Practice in descriptive and narrative composition with special attention to contrastive stylistics; thâˆ™me et version.
Prerequisites: C or better in each of FREN 309, FREN 310, and FREN 311, or equivalents, or a score of F-7 on the French language placement exam.

FREN 516 - French Phonology (3 Credits)
The sound system and its functioning in the morphological system of French from the point of view of current phonological theory.
Cross-listed course: LING 512

FREN 517 - French Linguistics (3 Credits)
The structure, morphology, and syntax of modern French.
Cross-listed course: LING 502

FREN 595 - Special Topics in French (3 Credits)
Poetry, prose, theatre, cinema, civilization, language, linguistics. Unique opportunities will be announced by title. May be repeated.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 615 - Intensive Readings in French (3 Credits)
Graduate students fulfill their foreign-language reading requirement with successful completion of the course. Undergraduates may take the course as an elective only. Grades S/U for graduates and undergraduates.

GERM 109 - Beginning German I (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Restricted to those who have never studied German or who have placed by examination into GERM 109. Credit may be received only for one of the following GERM 109; GERM110; GERM 111; GERM 121.
Carolina Core: GFL
GERM 110 - Beginning German II (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Credit may be received only for one of the following: GERM 109; GERM 110; GERM 111; GERM 121.
Carolina Core: GFL

GERM 111 - Intensive Beginning German (6 Credits)
Intensive introduction to grammar and practical vocabulary necessary for fundamental communication skills. Admission only to highly motivated beginning students who obtain permission of the department. Credit may be received only for one of the following: GERM 109 and GERM 110; GERM 111; GERM 121.

GERM 121 - Elementary German (4 Credits)
Grammar and vocabulary necessary for fundamental communication skills. Assumes prior experience in German. Admission only by proficiency examination. Credit may be received for only one of the following: GERM 109; GERM 110; GERM 111; GERM 121.
Carolina Core: GFL

GERM 122 - Basic Proficiency in German (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: Admission either by placement examination or successful completion of GERM 110, GERM 111, or GERM 121.
Carolina Core: GFL

GERM 210 - Intermediate German (3 Credits)
Further development of listening, reading, speaking, and writing skills; discussion of selected literary texts, and current issues; intensive review of basic grammar structures.
Prerequisites: GERM 122, or satisfactory score on Basic Proficiency Phase II placement test.

GERM 211 - Intermediate German (3 Credits)
Reading strategies, a review, and expansion of grammar structures, supplemented with materials concerning current issues.
Prerequisites: GERM 122, or satisfactory score on Basic Proficiency Phase II placement test.
Prerequisite or Corequisite: GERM 210.

GERM 230 - The Idea of Nature in Germany (3 Credits)
The idea of nature in Germany from the 18th century to today. Focus on scientific, philosophical, social and political entanglements that prompt radical shifts in how German thinkers view nature.

GERM 270 - Knights and Ladies (3 Credits)
Survey of medieval romances and love lyrics of Germany. History and culture of the High Middle Ages in Germany, especially courtly society. The function of chivalry and courtly literature in society.
Carolina Core: AIU

GERM 280 - German Culture and Civilization (3 Credits)
Survey of German cultural history from the Middle Ages to the present. Taught in English.
Carolina Core: GHS
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

GERM 290 - Viking Mythology (3 Credits)
Survey of Germanic mythological and heroic texts of the Viking Age. History and culture of Germanic tribes, especially the Vikings. The function of myth in society.
Carolina Core: AIU

GERM 295 - Green Technology in Germany (3 Credits)
Examination of roots and culture of environmentalism and related technological innovation in Germany. Comparison of green practices around the world to practices within Europe and U.S.
Cross-listed course: ENVR 295
Graduation with Leadership Distinction: GLD: Community Service

GERM 310 - German Conversation (3 Credits)
Continued practice in the four skills with focus on a selected aspect of German culture and society.
Prerequisites: GERM 210 and GERM 211.

GERM 311 - German Conversation and Composition (3 Credits)
Continued practice in the four skills with emphasis on developing writing skills and with focus on a specific aspect of German culture.
Prerequisites: GERM 210 and GERM 211.

GERM 316 - Advanced German for Business and Other Professions I (3 Credits)
Development of advanced language and cultural skills necessary for functioning in the professional world of German-speaking countries.
Prerequisites: C or higher in GERM 210 and GERM 211.

GERM 320 - German Kabarett Production (3 Credits)
Literary-historical analysis and discussion of texts from German Kabarett, including comedic skits, political and social satire, parody, humorous poetry. Semester ends with a public performance in German.
Prerequisites: GERM 310.

GERM 333 - Study of German Abroad (3-6 Credits)
Intensive language practice and cultural studies. May be repeated for credit by permission.

GERM 340 - Readings in German Literature (3 Credits)
An introduction to the literary genres illustrated by masterpieces in German poetry, drama, and prose.
Prerequisites: GERM 310 and GERM 311.

GERM 398 - Selected Topics (3 Credits)
Taught in English. Intensive study of cultural and/or literary movements in German-speaking countries. Course content varies by title.

GERM 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

GERM 401P - Practicum in Teaching German to Young Children (3 Credits)
Introduction to principles of foreign language instruction and field experience planning instruction and teaching German to children in local elementary schools.
Corequisite: GERM 210 or higher.
Graduation with Leadership Distinction: GLD: Community Service Experiential Learning: Experiential Learning Opportunity

GERM 410 - Advanced German Grammar (3 Credits)
Emphasis on advanced grammar structures, with continued development of all four skills (reading, writing, listening, speaking).
Prerequisites: GERM 310 and GERM 311.

GERM 411 - Advanced German Conversation (3 Credits)
Advanced practice in correct spoken idiomatic German with special focus on issues of the 20th century and contemporary culture.
Prerequisites: GERM 310 and GERM 311.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 416</td>
<td>Advanced German for Business and Other Professions II (3 Credits)</td>
<td>Development of advanced language and cultural skills necessary for functioning in the professional world of German-speaking countries. Preparation for standardized exams.</td>
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<td>Prerequisites: C or higher in GERM 310 and GERM 311.</td>
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<tr>
<td>GERM 420</td>
<td>Medieval German Literature and Culture (3 Credits)</td>
<td>Survey of German literature and culture from the beginnings to 1350, including Germanic mythology and heroic poetry, conversion to Christianity, courtly romance and love lyric, mystical writings, art and architecture.</td>
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<td>Prerequisites: GERM 340.</td>
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<tr>
<td>GERM 430</td>
<td>The German Enlightenment and its Countercurrents (3 Credits)</td>
<td>German literature and culture of the 18th century with emphasis on the period between 1750 and Weimar Classicism. May include major works by Lessing, Goethe, and Schiller.</td>
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<td>Prerequisites: GERM 340.</td>
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<tr>
<td>GERM 440</td>
<td>German Literature and Culture from 1800-1871 (3 Credits)</td>
<td>German literary, cultural, and intellectual developments from Unification to the end of WWII, including Naturalism, Expressionism, the Weimar Republic, the Third Reich, and the exile period.</td>
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<td>Prerequisites: GERM 340.</td>
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<tr>
<td>GERM 450</td>
<td>German Literature from 1890-1945 (3 Credits)</td>
<td>German literary, cultural, and intellectual developments from 1890 to 1945, including Expressionism, Weimar Republic, the Third Reich, and exile period.</td>
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<td>Prerequisites: GERM 340.</td>
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<tr>
<td>GERM 460</td>
<td>Post-War and Contemporary German Literature (3 Credits)</td>
<td>German literary, cultural and political developments from Post-War destruction and reconstruction, through the Cold War period of division, with examination of the reunification process.</td>
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<td>Prerequisites: GERM 340.</td>
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<tr>
<td>GERM 500</td>
<td>Survey of German Culture (3 Credits)</td>
<td>Historical survey of the German contribution to the intellectual and cultural life of Europe. Texts and films in German.</td>
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<td>Prerequisites: advanced reading ability in German.</td>
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<tr>
<td>GERM 515</td>
<td>Introduction to German Linguistics (3 Credits)</td>
<td>Structural and descriptive linguistics applied to the German language.</td>
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<td>Cross-listed course: LING 503</td>
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<tr>
<td>GERM 516</td>
<td>History of the German Language (3 Credits)</td>
<td>Development of German in the Germanic, Old High German, Middle High German, and New High German periods. Phonology, morphology, syntax, semantics, and the relationship between dialects and the standard language.</td>
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<td>Cross-listed course: LING 733</td>
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<tr>
<td>GERM 517</td>
<td>Introduction to the Germanic Languages (3 Credits)</td>
<td>Introduction to historical Germanic linguistics including a survey of the Old Germanic languages (Old English, Old Frisian, Old Saxon, Old High German, Old Norse, Gothic); comparative phonology, morphology, and syntax, typology of modern Germanic languages and dialects; and common Germanic in its Indo-European context.</td>
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<td>Cross-listed course: LING 533</td>
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<tr>
<td>GERM 518</td>
<td>German Sociolinguistics (3 Credits)</td>
<td>Introduction to the study of variation in Modern German. Traditional German dialectology and dialect geography, language and society, multilingualism in the German-speaking countries, German in contact with other languages.</td>
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<td>Cross-listed course: LING 548</td>
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<tr>
<td>GERM 580</td>
<td>Topics in German Film (3 Credits)</td>
<td>Examination of recurring themes and issues or of significant periods and influential styles in German film. Course content varies and individual topics will be announced with course title.</td>
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<tr>
<td>GERM 598</td>
<td>Selected Topics in German (3 Credits)</td>
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<tr>
<td>GERM 615</td>
<td>Intensive Readings in German (3 Credits)</td>
<td>Intensive reading for non-majors. Graduate students fulfill their foreign-language requirement with successful completion of the course. Undergraduates may take the course as an elective only by permission of instructor. Grades S/U for graduates and undergraduates.</td>
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<tr>
<td>GREK 121</td>
<td>Elementary Ancient Greek I (4 Credits)</td>
<td>Basic grammar and vocabulary necessary for reading Classical and Koine Greek. Assumes no prior experience in the language.</td>
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<td>Carolina Core: GFL</td>
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<tr>
<td>GREK 122</td>
<td>Elementary Ancient Greek II (4 Credits)</td>
<td>Additional grammar and vocabulary necessary for reading Classical and Koine Greek.</td>
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<td>Prerequisites: GREK 121.</td>
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<tr>
<td>GREK 305</td>
<td>The Greek New Testament (3 Credits)</td>
<td>Readings in the Gospels and Epistles.</td>
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<td>Prerequisites: GREK 121 and GREK 122.</td>
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<tr>
<td>GREK 312</td>
<td>Plato (3 Credits)</td>
<td>The life of Socrates based on the reading of Plato’s Apology and Crito in Greek. Supplementary reading in English from Xenophon’s Memorabilia and Aristophanes’ Clouds.</td>
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<td>Prerequisites: GREK 121 and GREK 122.</td>
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<tr>
<td>GREK 312</td>
<td>Homer (3 Credits)</td>
<td>Readings from the Iliad and the Odyssey in Greek. Discussion of the language, background, and composition of the poems.</td>
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<td>Prerequisites: GREK 121 and GREK 122.</td>
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<tr>
<td>GREK 399</td>
<td>Independent Study (3-6 Credits)</td>
<td>Contract approved by instructor, advisor, and department chair is required for undergraduate students.</td>
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<td>Graduation with Leadership Distinction: GLD: Research</td>
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<tr>
<td>GREK 501</td>
<td>Herodotus (3 Credits)</td>
<td>Readings from the Histories.</td>
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<td>GREK 502</td>
<td>Thucydides (3 Credits)</td>
<td>Readings from the History of the Peloponnesian War.</td>
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<td>GREK 533</td>
<td>Sophocles (3 Credits)</td>
<td>Selected plays.</td>
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<td>GREK 534</td>
<td>Euripides (3 Credits)</td>
<td>Selected plays.</td>
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<tr>
<td>GREK 543</td>
<td>Hesiod and the Homeric Hymns (3 Credits)</td>
<td>Readings from the Works and Days, the Theogony, and the Homeric Hymns.</td>
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ITAL 221 - Intermediate Proficiency in Italian I (3 Credits)
Practice and rapid development of accurate skills in speaking, listening, reading and writing. Features BBC television course.
Prerequisites: ITAL 122.

ITAL 222 - Intermediate Proficiency in Italian II (3 Credits)
Practice and further rapid development of accurate skills in speaking, listening, reading and writing. Features BBC television course.
Prerequisites: ITAL 221.

ITAL 230 - Accelerated Intermediate Italian (6 Credits)
Accelerated development of intermediate level listening, reading, speaking, and writing skills in Italian. Credit may be received only for one of the following: ITAL 221 and ITAL 222, or ITAL 230.
Prerequisites: ITAL 122 or ITAL 130.

ITAL 310 - Italian Conversation (3 Credits)
Oral practice with advanced protocols of Italian conversation, focusing on perfecting rhythms and tonalities, and on a clear presentation of meaning.

ITAL 311 - Writing in Italian (3 Credits)
Introduction to letter, short essay, and creative writing, and to newspaper reports and selected essays as models of self-expression.
Prerequisites: ITAL 222.

ITAL 350 - Advanced Italian Study Abroad (3-6 Credits)
Intensive language practice, emphasizing oral proficiency skills and advanced conversational protocols. Classroom instruction by native speakers, extensive contact with native environment, field trips. May be repeated for credit by permission.
Prerequisites: ITAL 122.

ITAL 398 - Selected Topics (3 Credits)
Intensive study of selected literary and cinematic topics of the Italian world. May be repeated for credit as topic varies by title. Taught in English.

ITAL 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

ITAL 400 - Contemporary Italian Civilization (3 Credits)
Significant values in the Italian cultural heritage, as presented in native print and visual media.
Prerequisites: ITAL 310 and ITAL 311, or ITAL 350.

ITAL 404 - Twentieth Century Italian Literature (3 Credits)
Selected plays, short stories, novels and poems which characterize quality achievements by Italians, and which promote a better understanding of Italian life.
Prerequisites: ITAL 310 and ITAL 311, or ITAL 350.

ITAL 405 - The Italian Love Lyric (3 Credits)
Italian love poetry, beginning with the “Dolce Stil Nuovo” of the late Middle Ages and ending with post-WWII avant-garde poetry.
Prerequisites: ITAL 310 and ITAL 311, or ITAL 350.
ITAL 406 - Business Readings in Italian (3 Credits)
Selected literature from the Italian business world, such as correspondence, brochures, specialized newspapers and magazines, biographies of businessmen, prospectuses, and annual reports.
Prerequisites: ITAL 310, ITAL 311 and ITAL 312, or ITAL 350.

ITAL 407 - Advanced Conversation and Composition (3 Credits)
Prepares students for making lengthy formal reports in Italian, both written and oral, on topics of importance for success within an Italian environment.
Prerequisites: ITAL 310 and ITAL 311, or ITAL 350.

ITAL 411 - Italian Literature in Translation (3 Credits)
Italian writers, focusing on the works of Dante, Petrarch, and Boccaccio, with additional selections from later authors.

ITAL 412 - Post-World War II Italian Cinema (3 Credits)
Italian films of high esthetic value that present major cultural concerns of post-WWII Italians. Skills in film criticism and analysis. Films are subtitled. Taught in English.

ITAL 499 - Senior Project (3-6 Credits)
Directed independent research project, with a formal presentation and public discussion.
Graduation with Leadership Distinction: GLD: Research

ITAL 560 - Independent Studies in Italian Literature (1-3 Credits)
Special topics in Italian literature.

ITAL 561 - Independent Studies in Italian Literature (1-3 Credits)
Special topics in Italian literature.

ITAL 615 - Intensive Readings in Italian (3 Credits)
Graduate students fulfill their foreign language reading requirement with successful completion of the course. Undergraduates may take the course as an elective only.

JAPA 121 - Elementary Japanese (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.
Carolina Core: GFL

JAPA 122 - Basic Proficiency in Japanese (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills. Admission only by successful completion of Japanese 121.
Prerequisites: JAPA 121.
Carolina Core: GFL

JAPA 221 - Intermediate Japanese I (3 Credits)
Review and continuation of fundamentals of the language; development of oral and reading skills.
Prerequisites: JAPA 122 or JAPA 123.

JAPA 222 - Intermediate Japanese II (3 Credits)
Review and continuation of fundamentals of the language; development of written and oral expression.
Prerequisites: JAPA 221.

JAPA 224 - Reading and Writing Japanese (3 Credits)
Acquisition and advancement of kanji literacy and writing skills. Development of foundational skills to review basic kanji and to aid in inferring the meaning of higher level kanji. Covers 250 kanji characters with complementary instruction through many mediums (brush writing, postcards, meishi).
Prerequisites: JAPA 121 and JAPA 122.

JAPA 240 - Introduction to Japanese Culture (3 Credits)
Introduction to Japanese culture through an examination of cultural elements such as traditions, arts, history, geography, people, society, and religion. Taught in English.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

JAPA 321 - Advanced Japanese I (3 Credits)
Improvement of skills in conversation and composition; advanced reading in modern Japanese materials.
Prerequisites: JAPA 222 or JAPA 223.

JAPA 322 - Advanced Japanese II (3 Credits)
Continuation of JAPA 321, with emphasis on strengthening proficiency in the use of Kanji.
Prerequisites: JAPA 321.

JAPA 331 - Japanese for Business I (3 Credits)
Development of language skills specific to the Japanese business world and its practices.
Prerequisites: JAPA 222 or JAPA 223.

JAPA 332 - Japanese for Business II (3 Credits)
This is a continuation of JAPA 331.
Prerequisites: JAPA 331.

JAPA 340 - Introduction to Japanese Culture and Literature (3 Credits)
Introduction to Japanese literature and its cultural background. Conducted in English, but some background of Japanese is recommended.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JAPA 341 - Modern Japanese Literature (3 Credits)
Survey of modern Japanese literature and its cultural background up to the present. Conducted in English, but some knowledge of Japanese is required.
Prerequisites: JAPA 340.

JAPA 350 - Japanese Culture and Society through Film (3 Credits)
Examination of Japanese culture and contemporary society using selected films. Taught in English.

JAPA 351 - Japanese Culture and Society through Theatre (3 Credits)
Introduction to Japanese traditional theater and its influences on Japanese culture and society. Taught in English.
Cross-listed course: THEA 369

JAPA 353 - Japanese Culture and Society through Animation (3 Credits)
Examination of Japanese culture and contemporary society through studying of popular animations. Taught in English.

JAPA 398 - Selected Topics (3 Credits)
Intensive study of selected topics in Japanese literature and culture. May be repeated for credit as topic varies by title. Taught in English.

JAPA 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

JAPA 421 - Advanced Japanese III (3 Credits)
Development of proficiency in speaking, reading, and writing through advanced studies of authentic Japanese materials.
Prerequisites: JAPA 322, JAPA 323.
JAPA 422 - Advanced Japanese IV (3 Credits)
Strengthening proficiency in writing and reading.
Prerequisites: JAPA 421.

JAPA 500 - Japanese Language in Society (3 Credits)
Japanese language and communication in its sociocultural context; emphasis on comparison with American English. Taught in English.
Cross-listed course: LING 546

KORE 121 - Elementary Korean (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.

KORE 122 - Basic Proficiency in Korean (4 Credits)
Practice and development of essential listening, reading, speaking, and writing skills.
Prerequisites: KORE 121.

KORE 221 - Intermediate Korean I (3 Credits)
Review and continuation of fundamentals of the language; development of oral and reading skills.
Prerequisites: KORE 122.

KORE 222 - Intermediate Korean II (3 Credits)
Increased emphasis on written and oral expression in Korean.
Prerequisites: KORE 221.

LATN 109 - Beginning Latin I (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental reading skills. Admission to 109 restricted to those who have never studied Latin, who have not studied Latin in the previous five years, or who have a score of L-1 on the placement test.
Carolina Core: GFL

LATN 110 - Beginning Latin II (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental reading skills. Credit may not be received for both LATN 109/LATN 110 and LATN 121.
Prerequisites: LATN 109.
Carolina Core: GFL

LATN 121 - Elementary Latin (4 Credits)
Grammar and vocabulary necessary for fundamental reading skills. Assumes prior experience in Latin. Admission only by proficiency examination. Credit may be received for only one of the following: LATN 109/LATN 110 or LATN 121.
Carolina Core: GFL

LATN 122 - Basic Proficiency in Latin (3 Credits)
Practice and further development of essential reading skills.
Prerequisites: LATN 110 or LATN 121.
Carolina Core: GFL

LATN 301 - Advanced Readings in Latin Literature (3 Credits)
A survey of Latin literature designed for the student who wishes to develop a major or cognate in Latin.
Prerequisites: LATN 122.

LATN 321 - Virgil (3 Credits)
Readings from the Aeneid.

LATN 322 - Latin Literature of the Golden Age (3 Credits)
Selected readings in prose and poetry of representative authors.

LATN 342 - Latin Composition (3 Credits)
A study of Latin syntax in order to translate English prose into Latin. Instruction is individualized.

LATN 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

LATN 501 - Latin Drama (3 Credits)
Selected plays of Plautus and Terence.

LATN 502 - Cicero (3 Credits)
Readings from a variety of Cicero's works to gain a concept of the man as a humanist.

LATN 504 - Horace (3 Credits)
Readings from the Odes.

LATN 508 - Ovid (3 Credits)
Readings from the Metamorphoses.

LATN 513 - Tacitus (3 Credits)
Agricola or selections from the Annales.

LATN 514 - Livy (3 Credits)
Readings from Ab Urbe Condita.

LATN 525 - Roman Satire (3 Credits)
Readings in Horace, Juvenal, and Petronius.

LATN 530 - Latin Erotic Poetry (3 Credits)
Readings from the elegies of Catullus, Tibullus, Propertius, and Ovid.

LATN 537 - Lucretius (3 Credits)
Readings from the De Rerum Natura.

LATN 540 - Renaissance Latin (3 Credits)
An examination of several genres of Latin writing from Europe during the period 1400-1600, emphasizing, but not limited to, Italian writers.

LATN 551 - History of Latin Literature from the Origins to the Golden Age (3 Credits)
Readings from the Twelve Tables to Virgil, supplemented by readings in history and scholarship. Designed to prepare majors and honors students for further study.

LATN 552 - History of Latin Literature in the Silver Age (3 Credits)
Readings from Ovid to Ammianus, supplemented by readings in history and scholarship. Designed to prepare majors and honors students for further study.

LATN 560 - Independent Study (1-3 Credits)
Special projects for independent study and research.

LATN 561 - Independent Study (1-3 Credits)
Special projects for independent study and research.

LATN 580 - Teaching Advanced Latin in Secondary School (3 Credits)
Methods and materials for teaching the Latin Advanced Placement courses in secondary school.

LATN 614 - Intensive Grammar Review in Latin (3 Credits)
Intensive grammar review for non-majors; designed as preparation for LATN 615.

LATN 615 - Intensive Readings in Latin (3 Credits)
Intensive reading for non-majors. Graduate students fulfill their foreign-language reading requirement with successful completion of the course. Undergraduates may take the course as an elective only.
PORT 121 - Elementary Portuguese (3 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.
Carolina Core: GFL

PORT 122 - Basic Proficiency in Portuguese (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: PORT 121.

PORT 201 - Intermediate Portuguese I (3 Credits)
Review of the basic principles of grammar with additional emphasis on reading and oral skills.
Prerequisites: PORT 122, PORT 130.

PORT 202 - Intermediate Portuguese II (3 Credits)
Continued review of the basic principles of grammar with additional emphasis on reading, writing, and oral skills.
Prerequisites: PORT 201.

PORT 299 - Accelerated Portuguese for Speakers of Spanish (3 Credits)
Accelerated Portuguese for speakers of Spanish, taught through a communicative approach. Students will develop intermediate-level oral and written communication skills in Portuguese and increase knowledge about multiple aspects of Luso-Brazilian cultures.
Prerequisites: SPAN 302, advanced proficiency or equivalent in Spanish.

PORT 309 - Advanced Conversation and Composition I (3 Credits)
Development of advanced conversational and compositional skills through systematic grammar study and review, reading, oral activities, and film discussion.
Prerequisites: Any 200-level PORT course.

PORT 310 - Advanced Conversation and Composition II (3 Credits)
Development of advanced conversational and compositional skills through systematic grammar study and review, reading, and the analysis of texts through both writing and oral discussion.
Prerequisites: Any 200-level PORT course.

PORT 312 - Introduction to Luso-Brazilian Literature (3 Credits)
Introduction to reading literary texts in Portuguese through carefully selected readings from different genres/periods.
Prerequisites: PORT 309 and PORT 310.

PORT 325 - The Brazilian Modern Short Story (3 Credits)
Examination of Brazilian short fiction and cronicas (literary journalistic pieces).
Prerequisites: PORT 309 and PORT 310.

PORT 375 - Special Topics in Luso-Brazilian Cultural Production (3 Credits)
Intensive study of special topics in Luso-Brazilian cultural production. May be repeated once as content varies by title. Taught in Portuguese.
Prerequisites: PORT 309 and PORT 310.

PORT 398 - Selected Portuguese Topics (1-3 Credits)
Intensive study of selected topics. May be repeated for credit under different title. Taught in English. Individual topics to be announced by title.

PORT 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

PORT 615 - Intensive Readings in Portuguese (3 Credits)
Intensive reading for non-majors. Graduate students fulfill their foreign-language reading requirements with successful completion of the course. Undergraduates may take the course as an elective only.

RUSS 121 - Elementary Russian (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.
Carolina Core: GFL

RUSS 122 - Basic Proficiency in Russian (4 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: RUSS 121.

RUSS 201 - Intermediate Russian I (3 Credits)
Continued exposure to the fundamentals of Russian grammar, along with increased focus on reading and speaking skills.
Prerequisites: RUSS 122 or satisfactory score on language placement test.

RUSS 202 - Intermediate Russian II (3 Credits)
Completion of exposure to the fundamentals of Russian grammar, with emphasis on writing, reading, and conversation.
Prerequisites: RUSS 201 or satisfactory score on language placement test.

RUSS 280 - Introduction to Russian Civilization (3 Credits)
A multimedia introduction to Russian culture from its beginnings to the present. No knowledge of Russian required.
Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RUSS 299 - Selected Topics (1-3 Credits)
Introductory-level study of selected topics in Russian culture. Does not apply toward the Russian major. May be repeated for credit under a different title.

RUSS 301 - Russian Conversation and Composition I (3 Credits)
Conversation, reading, composition, comprehensive review of grammar.
Prerequisites: RUSS 202 or satisfactory score on language placement test.

RUSS 302 - Russian Conversation and Composition II (3 Credits)
Emphasis on oral proficiency, using contemporary authentic materials from Russian newspapers, textbooks, and television newscasts.
Prerequisites: RUSS 301 or satisfactory score on language placement test.

RUSS 319 - Nineteenth-Century Russian Literature in Translation (3 Credits)
Masterworks of Russian literature by Tolstoy, Dostoevsky, Turgenev, Pushkin, Chekov, and others.
Graduation with Leadership Distinction: GLD: Global Learning
RUSS 319L - Nineteenth-Century Russian Literature in Russian (1 Credit)
A Russian-language course designed to supplement 319. Reading and discussion in Russian of 19th-century poetry and prose.
Prerequisites: RUSS 302.

RUSS 320 - Twentieth-Century Russian Literature in Translation (3 Credits)
Masterworks of Russian literature by Bely, Pasternak, Bulgakov, Nabokov, Solzhenitsyn, and others.
Graduation with Leadership Distinction: GLD: Global Learning

RUSS 320L - Twentieth-Century Russian Literature in Russian (1 Credit)
A Russian-language course designed to supplement RUSS 320.

RUSS 340 - Russian Shorts: Stories and Essays (3 Credits)
An examination of Russian short stories and essays by Russian writers from the nineteenth century to the twenty-first century.

RUSS 350 - Russian Folklore and Fairy Tales (3 Credits)
An introduction to Russian fairy tales and other genres of folklore, both in their original form within an oral tradition and as reworked in Russian art and literature.

RUSS 398 - Selected Topics (3 Credits)
Intensive study of selected topics in Russian cultural and/or literary movements. Taught in English. May be repeated for credit under a different title.

RUSS 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

RUSS 401 - Advanced Russian I (3 Credits)
Acquisition of subtleties of Russian grammar. Increased focus on reading, writing, and discussion.
Prerequisites: RUSS 302 or satisfactory score on language placement test.

RUSS 402 - Advanced Russian II (3 Credits)
Exposure to prose and poetry from a wide variety of sources and periods. Focus on oral proficiency, reading, comprehension, and writing.
Prerequisites: RUSS 401 or satisfactory score on language placement test.

RUSS 518 - Medieval Russian Culture (3 Credits)
An introduction to the culture of medieval Russia through its written records, folklore, icons, and ancient religious chant.

RUSS 520 - Russian Modernism: Love, Sex and Politics in Revolutionary Russia (3 Credits)
An exploration of Russian modernist culture, with particular attention to the themes of social and political change. Authors under discussion include Kuzmin, Bely, and Zamyatin.

RUSS 530 - Homer in Russia (3 Credits)
An examination of the influence of Homer’s epic poems The Iliad and The Odyssey on Russian culture, as seen in works by Russian writers including Tolstoy, Pasternak, and Brodsky.

RUSS 540 - Writing Russian National Identity (3 Credits)
An examination of Russian writers reflecting on Russian national identity, including Solzhenitsyn, Dostoevsky, and Grossman.

RUSS 598 - Selected Topics in Russian (3 Credits)
Reading and research on selected topics in Russian. Course content varies and will be announced in the schedule of courses by title.

RUSS 615 - Intensive Readings in Russian (3 Credits)
Intensive reading course for non-majors. Primarily for graduate students to fulfill the foreign-language reading requirement. It will not be applied toward the degree language requirements nor will it be accepted as a substitute in the course sequence leading to the various degree requirements.

RUSS 616 - Intensive Readings in Russian (3 Credits)
Intensive reading course for non-majors. Primarily for graduate students to fulfill the foreign-language reading requirement. It will not be applied toward the degree language requirements nor will it be accepted as a substitute in the course sequence leading to the various degree requirements.
Prerequisites: RUSS 615.

SPAN 109 - Beginning Spanish I (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Restricted to those who have never studied Spanish or placed by examination into SPAN 109. Credit may be received only for one of the following: SPAN 109, SPAN 110, SPAN 111; or SPAN 121.
Carolina Core: GFL

SPAN 110 - Beginning Spanish II (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Restricted to those who have completed SPAN 109. Credit may be received only for one of the following: SPAN 109, SPAN 110, SPAN 111; or SPAN 121.
Carolina Core: GFL

SPAN 111 - Intensive Beginning Spanish (6 Credits)
Intensive introduction to grammar and practical vocabulary necessary for fundamental communication skills. Admission only to highly motivated beginning students who obtain the permission of the department. Credit may be received only for one of the following: SPAN 109, SPAN 110, SPAN 111, or SPAN 121.
Carolina Core: GFL

SPAN 121 - Elementary Spanish (3 Credits)
Grammar and vocabulary necessary for fundamental communication skills. Assumes prior experience in Spanish. Admission only by proficiency examination. Credit may be received for only one of the following: SPAN 109, SPAN 110, SPAN 111, or SPAN 121.
Carolina Core: GFL

SPAN 122 - Basic Proficiency in Spanish (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: SPAN 109, SPAN 110, SPAN 111, or SPAN 121 or by placement examination.
Carolina Core: GFL

SPAN 209 - Intermediate Spanish I (3 Credits)
Further development of listening, speaking, reading, and writing skills. Use of authentic cultural materials.
Prerequisites: C or better in SPAN 222 or by Placement Exam.

SPAN 210 - Intermediate Spanish II (3 Credits)
Continued development of the four skills practiced in SPAN 209.
Prerequisites: C or better in SPAN 209 or by Placement Exam.
SPAN 211 - Intensive Intermediate Spanish (6 Credits)
Further development of listening, speaking, reading, and writing skills. Designed for highly motivated students. Credit not awarded for both SPAN 209-SPAN 210 and SPAN 211.
Prerequisites: SPAN 122 or placement at 209 level on Phase II placement exam.

SPAN 220 - Selected Works of Hispanic Literature in English Translation (3 Credits)
Selected major works, especially contemporary works, in all genres of Hispanic literature in English translation.
Carolina Core: AIU

SPAN 301 - Service Learning in Spanish (1-3 Credits)
Contract approved by instructor, director, and department chair required. May be repeated. Maximum of 3 hours may apply towards major or minor.
Prerequisites: SPAN 210.

SPAN 302 - Advanced Spanish (3 Credits)
In-depth study of advanced grammatical structures of Spanish to develop proficiency in all 4 skills and cultural competency. Gateway course for Spanish majors.
Prerequisites: B or better in SPAN 210, SPAN 211 or SPAN 230 or by placement.

SPAN 303 - Cultural Readings and Advanced Composition (3 Credits)
Development of advanced composition skills in Spanish on a variety of topics related to cultural production of the Spanish-speaking world.
Prerequisites: SPAN 302 or by placement on Phase II placement exam.

SPAN 304 - Cultural Readings and Advanced Conversation (3 Credits)
Cultural readings about the Spanish-speaking world, and advanced speaking skills practice through various strategies such as group discussions, debates, presentations.

SPAN 305 - Working with Hispanic Clients (3 Credits)
Crosscultural approaches to interactions with persons of Hispanic origin in a variety of professional settings. Readings, speakers, media. Taught in Spanish. Departmental permission required for transfer students.
Prerequisites: B or better in SPAN 210 or SPAN 211; placement at 300 level on Phase II placement exam.
Cross-listed course: LASP 305
Graduation with Leadership Distinction: GLD: Community Service, GLD: Global Learning

SPAN 311 - Spanish for Heritage Speakers (3 Credits)
Intensive grammar practice, enhancement of reading and writing skills for individuals raised in a Spanish-speaking household but with little or no formal Spanish instruction. Restricted to heritage speakers, as defined in Bulletin description.
Prerequisites: Placement by Phase II Exam.

SPAN 312 - Introduction to Reading Hispanic Literary Texts (3 Credits)
Approaches to reading literary texts through carefully selected readings from different genres.
Prerequisites: SPAN 303 or by placement. D or better for non-Spanish majors. C or better for Spanish majors and minors.

SPAN 316 - Business Spanish (3 Credits)
Commercial organizations and business in Spanish-speaking countries, business correspondence, terminology, and techniques in commercial transactions. Standardized examinations available such as the Certificado de la Camara de Comercio de Madrid.
Prerequisites: C or better in SPAN 302 or by placement.

SPAN 317 - Spanish Phonetics and Pronunciation (3 Credits)
Analysis of and practice in pronunciation, listening comprehension, and dialect recognition based on study of the speech sounds, combinations, patterns, and processes of Spanish phonetics and phonology. Department permission required for transfer students.
Prerequisites: C+ or better in SPAN 302; placement at 300 level of Phase II placement exam.
Cross-listed course: LING 314

SPAN 350 - Spanish Language Study Abroad (3 Credits)
Intensive language practice in native environment with emphasis on oral skills. Instruction by native speakers; community contact and home stay. Prior placement test required. May be repeated once for credit.
Prerequisites: B or better in SPAN 210 or SPAN 211 or by placement at 300 level on Phase II placement exam.

SPAN 360 - Spanish for Healthcare Professionals (3 Credits)
Health professionals’ functional and lexical language ability, cultural information, etiquette and protocol necessary to interact with Spanish speakers.
Prerequisites: SPAN 309.

SPAN 375 - Special Topics in Hispanic Literature (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title.
Prerequisites: SPAN 303 or placement above the SPAN 303 level on Phase II placement exam.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SPAN 376 - Special Topics in Hispanic Language and Culture (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title.
Prerequisites: C or higher in SPAN 302; Placement Exam score of SD or S7.

SPAN 380 - The Cinema of Spain (3 Credits)
Investigation of Spanish cultures through the study of its films and the cinematic medium.
Prerequisites: SPAN 303 or by placement.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

SPAN 381 - The Cinema of Latin America (3 Credits)
Investigation of Latin American cultures through the study of films and the cinematic medium.
Prerequisites: Placement at 300 level on Phase II placement exam, grade of C+ or better in SPAN 303, or consent of instructor. Department permission required for transfer students.

SPAN 398 - Special Topics in Hispanic Studies (3 Credits)
Intensive study of selected topics of the Hispanic world. Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title. Taught in English.
SPAN 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students. Department permission required for transfer students.
Prerequisites: B or better in SPAN 210 or SPAN 211; Placement at 300 level on Phase II placement exam.
Graduation with Leadership Distinction: GLD: Research

SPAN 400 - Spanish Civilization (3 Credits)
Lectures, readings, and visuals on selected topics of Spanish civilization and its cultural heritage.
Prerequisites: C+ or better in SPAN 303 or placement at 300 level on Phase II placement exam.
Graduation with Leadership Distinction: GLD: Global Learning

SPAN 401 - Latin American Culture (3 Credits)
Lectures, visuals, and readings on selected topics of Spanish American civilization and its cultural heritage.
Prerequisites: SPAN 312.

SPAN 404 - Literary Tendencies and Masterpieces of Spain (3 Credits)
A survey of the masterworks and literary tendencies of Spain.
Prerequisites: SPAN 312.

SPAN 405 - Literary Tendencies and Masterpieces of Spanish America (3 Credits)
A survey of the masterworks and literary tendencies of Spanish America.
Prerequisites: SPAN 312.

Cross-listed course: LASP 371

SPAN 410 - Advanced Oral Communication for the Professions (3 Credits)
Designed to develop linguistic functions such as supporting opinions and hypothesizing, as well as communicative strategies and vocabulary that are essential to effective communication in Spanish in the workplace.
Prerequisites: SPAN 309, SPAN 310.

SPAN 417 - Advanced Spanish for Business and the Professions (3 Credits)
Vocabulary, concepts, and oral/written skills necessary to communicate effectively in the social, cultural, or economic infrastructure of Hispanic countries. Introduction to the use of technology for the acquisition and processing of materials relevant to students' professional goals.
Prerequisites: SPAN 316.

SPAN 475 - Advanced Special Topics in Hispanic Literature (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title.
Prerequisites: D or better in SPAN 312 or by placement.

SPAN 476 - Advanced Special Topics in Hispanic Language and Culture (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title. This course will be taught in Spanish.
Prerequisites: D or better in SPAN 303 or by placement.

SPAN 498 - Advanced Special Topics in Hispanic Studies (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title. Taught in English.

SPAN 499 - Senior Seminar (3 Credits)
A special seminar devoted to the in-depth study of selected subjects in Hispanic literature, culture, or language. Required for the intensive major in Spanish.
Prerequisites: 3.00 GPA; 18 hours of 300-level Spanish.
Graduation with Leadership Distinction: GLD: Research

SPAN 500 - Contemporary Spain (3 Credits)
Analysis and discussion of 20th-century Spanish history and the sociocultural forces that have contributed to define this country's national identity. Taught in Spanish.
Prerequisites: SPAN 303 for Undergraduates, Phase II placement exam above SPAN 303.
Graduation with Leadership Distinction: GLD: Global Learning

SPAN 501 - Contemporary Spanish America (3 Credits)
Analysis and discussion of 20th-century Spanish American history and the sociocultural forces that have contributed to define this area's national identities. Taught in Spanish.
Cross-listed course: LASP 501

SPAN 513 - Introduction to Professional and Technical Translation (3 Credits)
Introduction to translation and practice of skills required for professional and technical Spanish/English translation.
Prerequisites: SPAN 409.

SPAN 515 - Introduction to Spanish Linguistics (3 Credits)
Phonology, morphology, and syntax of modern Spanish.
Prerequisites: SPAN 303, Phase II placement exam above SPAN 303.

SPAN 516 - The Structure of Modern Spanish (3 Credits)
Description of the grammatical structures of Modern Spanish. Intensive study of the theory and practice of word formation and sentence structure of Spanish.
Cross-listed course: LING 554

SPAN 517 - Contrastive English-Spanish Phonetics and Phonology (3 Credits)
Introduction to the study of phonetics and phonology and their application to the sounds and sound systems of English and Spanish. Includes transcription practice and discussion of relevance to teaching.
Cross-listed course: LING 514

SPAN 518 - Introduction to Spanish Medieval Literature (3 Credits)
Survey of Spanish literature from its first manifestations to La Celestina. Introduction; early works; the epic; 13th- through 15th-century prose and verse; Beceo, Alfonso X, Juan Ruiz, Marques de Santillana; others.
Prerequisites: SPAN 312 for undergraduates.

SPAN 524 - Renaissance and Golden Age Literature (3 Credits)
Survey of the works of Garcilaso, the Spanish mystics, Lope, Quevedo, Tirso, Calderon, Gongora and others.
Prerequisites: SPAN 312 for undergraduates.

SPAN 534 - Nineteenth-Century Spanish Literature (3 Credits)
Survey of the works of the major literary figures of the period.
Prerequisites: SPAN 312 for undergraduates.

SPAN 538 - Twentieth-Century Spanish Literature (3 Credits)
Survey of major peninsular writers from the Generation of '98 to the present.
Prerequisites: SPAN 312 for Undergraduates.
### Ancient Greek Literature Minor

**Minor Requirements**

#### Prerequisite Courses (8 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREK 121</td>
<td>Elementary Ancient Greek I</td>
<td>4</td>
</tr>
<tr>
<td>GREK 122</td>
<td>Elementary Ancient Greek II</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

#### Required Courses (18 Hours)

Select six of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREK 305</td>
<td>The Greek New Testament</td>
<td></td>
</tr>
<tr>
<td>GREK 321</td>
<td>Plato</td>
<td></td>
</tr>
<tr>
<td>GREK 322</td>
<td>Homer</td>
<td></td>
</tr>
<tr>
<td>GREK 501</td>
<td>Herodotus</td>
<td></td>
</tr>
<tr>
<td>GREK 502</td>
<td>Thucydides</td>
<td></td>
</tr>
<tr>
<td>GREK 533</td>
<td>Sophocles</td>
<td></td>
</tr>
<tr>
<td>GREK 534</td>
<td>Euripides</td>
<td></td>
</tr>
<tr>
<td>GREK 543</td>
<td>Hesiod and the Homeric Hymns</td>
<td></td>
</tr>
<tr>
<td>GREK 550</td>
<td>Greek Seminar</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### Chinese Studies Minor

**Minor Requirements (18 Hours)**

Hours Required for the Minor: 18

#### Required Courses

CHIN 240 and Chinese language through CHIN 322. Students who place out of some or all of the core language courses will take the 18 hours in literature, civilization and advanced language courses (as appropriate).

The following courses may be applied to the minor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 222</td>
<td>Intermediate Mandarin Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 321</td>
<td>Advanced intermediate Mandarin Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 322</td>
<td>Advanced Intermediate Mandarin Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 240</td>
<td>Chinese Culture, Tradition, and Modern Societies</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

#### Electives

At least six hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 335</td>
<td>Women in China</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 341</td>
<td>Modern Chinese Literature</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 365</td>
<td>Screening China</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 398</td>
<td>Selected Topics</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 303</td>
<td>Great Books of the Eastern World</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 415</td>
<td>Topics in Comparative Literary Relations</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 242</td>
<td>Chinese Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 345</td>
<td>History of Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>HIST 355</td>
<td>Late Imperial China</td>
<td>3</td>
</tr>
</tbody>
</table>
Chinese Studies, B.A.

Learning Outcomes

- Students will demonstrate a level of comprehension of spoken, standard Mandarin Chinese that will facilitate interactive communication in the language.
- Students will demonstrate advanced proficiency in understanding written Chinese, including familiarity with simplified and traditional character sets and regional variations across the Chinese-speaking world.
- Students will demonstrate the ability to speak Mandarin Chinese at an intermediate to advanced level of proficiency, i.e. to express a wide range of needs, experiences, and ideas in Chinese.
- Students will demonstrate the ability to write in Chinese at an intermediate to advanced level of proficiency, i.e. to express a wide range of needs, experiences, and ideas in Chinese.
- Students will recognize and be able to discuss the significance of primary periods and major writers in Chinese literature, as well as the major historical, cultural, and social trends of Chinese civilization from ancient times to the present day.
- Students will evaluate and discuss knowledgeably cultural texts or linguistic documents, including major texts of Chinese literature, and advance arguments effectively through strong writing and reasoning.
- Students will demonstrate their preparation for appropriate careers or graduate studies.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>37-49</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>24</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*must be passed with a grade of C or higher*

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)
Cognate Credit in Degree Programs in the College of Arts and Sciences

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15 hours)

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (3 hours of Social Science)
- CHIN 221
- CHIN 222
- CHIN 240

Note: If a student places out of CHIN 221 and CHIN 222, a Humanities or Fine Arts course would be required in place of each as part of the College of Arts and Sciences curriculum.

3. Program Requirements (37-49 hours)

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (19-37 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (24 hours)

a minimum grade of C is required in all major courses

Major Courses (18 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 321</td>
<td>Advanced Intermediate Mandarin Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 322</td>
<td>Advanced Intermediate Mandarin Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 421</td>
<td>Advanced Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 422</td>
<td>Advanced Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CHIN 335</td>
<td>Women in China</td>
<td></td>
</tr>
<tr>
<td>CHIN 341</td>
<td>Modern Chinese Literature</td>
<td></td>
</tr>
<tr>
<td>CHIN 365</td>
<td>Screening China</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 18
Major Electives (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 345</td>
<td>History of Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 398</td>
<td>Selected Topics</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 399</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>HIST 355</td>
<td>Late Imperial China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 356</td>
<td>China Since 1949</td>
<td>3</td>
</tr>
<tr>
<td>POLI 443</td>
<td>International Relations of East Asia and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>the Pacific</td>
<td></td>
</tr>
<tr>
<td>POLI 448</td>
<td>Politics and Government of China</td>
<td>3</td>
</tr>
<tr>
<td>RELG 220</td>
<td>Introduction to Buddhism</td>
<td>3</td>
</tr>
<tr>
<td>RELG 352</td>
<td>Religions of East Asia</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Chinese Studies, B.A.

Classical Studies Minor

Minor Requirements (18 Hours)

Required Courses (9 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 586</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 305</td>
<td>Greece and Rome in Film and Popular</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 320</td>
<td>Sexuality and Gender in Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 321</td>
<td>Sexuality, Gender, and Power in Ancient</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Rome</td>
<td></td>
</tr>
<tr>
<td>Greek or Latin at the 300-level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 9

Electives (9 Hours)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPLT 301</td>
<td>Great Books of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 301</td>
<td>Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 320</td>
<td>Sexuality and Gender in Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 321</td>
<td>Sexuality, Gender, and Power in Ancient</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Rome</td>
<td></td>
</tr>
<tr>
<td>CLAS 401</td>
<td>Greek and Latin Literature in Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 9

Classics, B.A.

Learning Outcomes

- Students will comprehend and translate into English a wide variety of Latin and Greek texts.
- Students will demonstrate the ability to differentiate between the primary periods and significant writers of Latin and Greek literatures.
- Students will demonstrate the ability to think critically and analyze texts.
- Students will recognize the major historical, cultural, and social trends of Greco-Roman civilization.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
</tbody>
</table>
1. Carolina Core Requirements (32-46 hours)

CMW — Effective, Engaged, and Persuasive Communication: Written (6 hours)
* must be passed with a grade of C or higher
  • any CC-CMW courses (p. 743)

ARP — Analytical Reasoning and Problem Solving (6-8 hours)
  • any CC-ARP courses (p. 743)

SCI — Scientific Literacy (8 hours)
  • Two 4-credit hour CC-SCI courses (p. 743)

GFL — Global Citizenship and Multicultural Understanding: Foreign Language (0-8 hours)
Students in the Classics major must demonstrate proficiency in both the Greek and Latin languages equivalent to the minimal passing grade on the exit examination in the 122 course. Latin courses fulfill the CC-GFL requirement for the Latin PK-12 Teacher Certification Concentration, as GREK 121 and GREK 122 are included in the major hours for that concentration. For any of the other concentrations, either Latin or Greek may meet the CC-GFL requirement. Students can demonstrate proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
  • CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS — Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
  • any CC-GHS course (p. 743)

GSS — Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  • any CC-GSS course (p. 743)

AIU — Aesthetic and Interpretive Understanding (3 hours)
  • any CC-AIU course (p. 743)

CMS — Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
  • any overlay or stand-alone CC-CMS course (p. 743)

INF — Information Literacy (0-3 hours)
  • any overlay or stand-alone CC-INF course (p. 743)

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
* only if needed to meet 122-level proficiency for Latin
  • Students in the Classics major must demonstrate proficiency in both the Greek and Latin languages equivalent to the minimal passing grade on the exit examination in the 122 course. Students who choose Latin to fulfill the CC-GFL requirement and test into LATN 109 will need an additional semester of the language to reach the 122 level.

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
  • One Carolina Core GHS-approved course primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  • One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
  • Three hours of Social Science
  • Nine hours of Fine Arts or Humanities

3. Program Requirements (20-49 hours)

Supporting Courses (0-9 hours)
Students in the Classics major must demonstrate proficiency in both the Greek and Latin languages equivalent to the minimal passing grade on the exit examination in the 122 course. Latin courses fulfill the CC-GFL requirement for the Latin PK-12 Teacher Certification Concentration, as GREK 121 and GREK 122 are included in the major hours for that concentration, so no Supporting Courses are needed. For any of the other concentrations, whichever language (Greek or Latin) was not met through the Carolina Core GFL requirement will be met through these Supporting Courses. Students can demonstrate proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing...
the 122 course, including the exit exam administered as part of that course.

Cognate or Minor (12-20 hours)
Students completing the Latin PK-12 Teacher Certification Concentration must complete a Foreign Language Education Minor (p. 146) (20 hours) and the two (2) required internships .

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (0-37 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (24-45 hours)
a minimum grade of C is required in all major courses

Students must choose a concentration from the options below.

Concentrations (24-45 hours)

Classical Studies Concentration (24 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 586</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 401</td>
<td>Greek and Latin Literature in Translation or CPLT 301 Great Books of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>Select six hours from the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GREK or LATN 300 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAS 305</td>
<td>Greece and Rome in Film and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 320</td>
<td>Sexuality and Gender in Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 321</td>
<td>Sexuality, Gender, and Power in Ancient Rome</td>
<td>3</td>
</tr>
<tr>
<td>Select three hours from the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HIST 302</td>
<td>Greek History and Civilization to 146 B.C.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>Roman Republic and Early Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>Late Antiquity: Imperial Rome to Islam</td>
<td>3</td>
</tr>
<tr>
<td>Select nine hours of Major Electives from the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>ARTH 313</td>
<td>History of Roman Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 320</td>
<td>History of Italian Renaissance Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 514</td>
<td>Topics in Ancient Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 520</td>
<td>History of Renaissance Painting</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 524</td>
<td>Topics in Renaissance Art</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 301</td>
<td>Great Books of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 240</td>
<td>Sport and Combat in the Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 301</td>
<td>Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 302</td>
<td>Greek and Roman Philosophy after Aristotle</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 360</td>
<td>Classical Origins of Western Medical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 361</td>
<td>Between Magic and Method: Ancient Medicine</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 401</td>
<td>Greek and Latin Literature in Translation</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 469</td>
<td>Classical Drama</td>
<td>3</td>
</tr>
<tr>
<td>HIST 302</td>
<td>Greek History and Civilization to 146 B.C.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>Roman Republic and Early Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>Late Antiquity: Imperial Rome to Islam</td>
<td>3</td>
</tr>
<tr>
<td>HIST 325</td>
<td>Byzantine History: 4th to 11th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 505</td>
<td>Plato</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 506</td>
<td>Aristotle</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 526</td>
<td>Hellenistic Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>RELG 302</td>
<td>New Testament</td>
<td>3</td>
</tr>
<tr>
<td>RELG 310</td>
<td>Paul and the Philosophers</td>
<td>3</td>
</tr>
<tr>
<td>RELG 311</td>
<td>Gospel Literature and the Formation of Christianity</td>
<td>3</td>
</tr>
<tr>
<td>RELG 312</td>
<td>The Life and Letters of Paul</td>
<td>3</td>
</tr>
<tr>
<td>RELG 315</td>
<td>Early Christianity</td>
<td>3</td>
</tr>
<tr>
<td>RELG 316</td>
<td>Imagining Jesus: Antiquity to Present</td>
<td>3</td>
</tr>
<tr>
<td>RELG 410</td>
<td>Origins of Western Morality</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 24
Courses with appropriate content, such as Special Topics courses, may be applied with permission of the advisor.

Greek Concentration (24 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 18 hours from GREK 300 or above</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Select 6 hours from LATN 300 or above</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

Latin Concentration (24 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 18 hours from LATN 300 or above</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Select 6 hours from GREK 300 or above</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

PK-12 Teacher Certification Concentration (45 hours) optional

Students in the PK-12 Teacher Certification Concentration must complete the Foreign Language Education Minor (p. 146) and the two (2) required internships as part of the program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 27 hours of LATN 300 or above</td>
<td></td>
<td>27</td>
</tr>
<tr>
<td>CLAS 586</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>FORL 448</td>
<td>Teaching Internship in Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>FORL 474</td>
<td>Directed Teaching in Foreign Languages</td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

Application and Admission

Application and admission to the professional program in education/internship are required for all majors seeking teacher certification. All teacher education candidates must adhere to all education policies and procedures related to clinical experiences and meet University and S.C. Board of Education requirements in order to be recommended for certification. Information is available from academic advisors or the College of Education, Advising and Student Services office, at 803-777-6732.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Comparative Literature Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPLT 270</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 300</td>
<td>What is Comparative Literature</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPLT 301</td>
<td>Great Books of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 302</td>
<td>Great Books of the Western World II</td>
<td></td>
</tr>
<tr>
<td>CPLT 303</td>
<td>Great Books of the Eastern World</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Comparative Literature, B.A.

Learning Outcomes

- Students will demonstrate skill in and knowledge of a broad range of diverse literary traditions.
- Students will demonstrate skill in at least two literatures, one in a foreign language.
- Students will demonstrate knowledge of the history of literary theory and adequate ability to apply literary theory to literary texts they will also acquire a good understanding of the history and development of the field of comparative literature.
- Students will demonstrate skill in linguistic competence in a second foreign language.
- Students will demonstrate skills in basic research methods.
- Students will demonstrate skills in written communication.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular
Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>31-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

• Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

• CPLT 270

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

• any overlay or stand-alone CC-CMS (p. 743) course

INF – Information Literacy 1 (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

• only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

• One Carolina Core GHS-approved course primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)

Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

• Three hours of Social Science

• Nine hours of Fine Arts or Humanities

3. Program Requirements (31-46 hours)

Supporting Courses (3-9 hours)

Students in the Comparative Literature major are required to demonstrate proficiency in a second foreign language. Students must reach proficiency equivalent to the 122 course in the second language, through course credit or the corresponding foreign language placement score. Students who test out of the 122-level of the second foreign language will be required to take a higher-level course in the language for a minimum of 3 credit hours.
Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (4-31 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (27 hours)
A minimum grade of C is required in all major courses.

Major Courses (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPLT 300</td>
<td>What is Comparative Literature</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 415</td>
<td>Topics in Comparative Literary Relations</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPLT 301</td>
<td>Great Books of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 302</td>
<td>Great Books of the Western World II</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 303</td>
<td>Great Books of the Eastern World</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPLT 499</td>
<td>Senior Thesis¹</td>
<td>6</td>
</tr>
</tbody>
</table>

¹ Any literature course from a foreign language 200-level or above may be in translation

<table>
<thead>
<tr>
<th>Total Credit Hours</th>
<th>15</th>
</tr>
</thead>
</table>

Major Electives (12 hours)
- Select 1 course from CPLT 300 or above (3 hours)
- Select 2 literature courses from a foreign language 300-level or above (6 hours)
- Select 1 literature course from a second foreign language 300-level or above (3 hours) may be in translation

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Comparative Literature, B.A.

Foreign Language Education Minor

Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRD 500</td>
<td>Content Area Literacy PK-12</td>
<td>3</td>
</tr>
<tr>
<td>EDPY 401</td>
<td>Learners and the Diversity of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDEX 491</td>
<td>Introduction to Inclusion of Students with Mild Disabilities</td>
<td>2</td>
</tr>
<tr>
<td>EDTE 201</td>
<td>Issues and Trends in Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>FORL 472</td>
<td>Introduction to Technology in Language Education</td>
<td>3</td>
</tr>
<tr>
<td>FORL 510</td>
<td>Teaching Second Languages to Young Children</td>
<td>3</td>
</tr>
<tr>
<td>FORL 511</td>
<td>Teaching Foreign Languages in Secondary Schools</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credit Hours | 20 |

Notes:
The Minor in Foreign Language Education is available only to students majoring in French, German, Spanish, or Classics.

Minors in Education or Foreign Language Education do not qualify candidates for a recommendation for teacher certification. See the College of Education Office of Student Affairs (http://www.sc.edu/study/colleges_schools/education/my_coe/) for information on teacher certification programs.

French Minor

Minor Requirements (18 Hours)

Students who place out of some or all of the core language courses will take the 18 hours in literature, civilization and advanced language courses (as appropriate).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 209</td>
<td>Reading and Written Expression</td>
<td>3</td>
</tr>
<tr>
<td>FREN 210</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>FREN 309</td>
<td>Reading French Texts</td>
<td>3</td>
</tr>
<tr>
<td>FREN 310</td>
<td>Advanced Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 300</td>
<td>French Phonetics</td>
<td></td>
</tr>
<tr>
<td>FREN 311</td>
<td>French Composition</td>
<td></td>
</tr>
<tr>
<td>FREN 316</td>
<td>Introduction to Business French</td>
<td></td>
</tr>
<tr>
<td>FREN 330</td>
<td>The French Theatre Experience</td>
<td></td>
</tr>
<tr>
<td>FREN 350</td>
<td>French Language Study Abroad</td>
<td></td>
</tr>
<tr>
<td>SCHC 363</td>
<td>HNRS: Proseminar in French</td>
<td></td>
</tr>
<tr>
<td>FREN 397</td>
<td>The French Film Experience</td>
<td></td>
</tr>
<tr>
<td>FREN 399</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>FREN 400</td>
<td>French Cultural History</td>
<td></td>
</tr>
<tr>
<td>FREN 416</td>
<td>Advanced Business French</td>
<td></td>
</tr>
<tr>
<td>FREN 450</td>
<td>Topics in Literature</td>
<td></td>
</tr>
<tr>
<td>FREN 451</td>
<td>French Literature and Culture Before 1800</td>
<td></td>
</tr>
<tr>
<td>FREN 452</td>
<td>French Literature and Culture After 1800</td>
<td></td>
</tr>
<tr>
<td>FREN 453</td>
<td>Francophone Literatures and Cultures</td>
<td></td>
</tr>
<tr>
<td>SCHC 463</td>
<td>HNRS: Proseminar in French</td>
<td></td>
</tr>
<tr>
<td>FREN 501</td>
<td>Contemporary France</td>
<td></td>
</tr>
<tr>
<td>FREN 511</td>
<td>Techniques of Literary Analysis</td>
<td></td>
</tr>
<tr>
<td>FREN 515</td>
<td>Advanced French Stylistics</td>
<td></td>
</tr>
<tr>
<td>FREN 516</td>
<td>French Phonology</td>
<td></td>
</tr>
<tr>
<td>FREN 517</td>
<td>French Linguistics</td>
<td></td>
</tr>
<tr>
<td>FREN 595</td>
<td>Special Topics in French</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 18

French, B.A.

Learning Outcomes

- Students will comprehend and interpret texts written in French on non-technical topics.
- Students will write French with grammatical accuracy and clarity.
- Students will demonstrate the required knowledge of the geography, history, socio-political structure, and artistic and intellectual contributions of the societies in which French is a native language or official language.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>20-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27-45</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI courses (p. 743)
GHS – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component \(^1\) (0-3 hours)
- any overlay or stand-alone CC-CMS (p. 743) course

INF – Information Literacy \(^1\) (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility \(^1\) (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

\(^1\) Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

Note: Students may use FREN 209 and FREN 210, if needed, to fulfill 6 hours of the Humanities or Fine Arts requirement.

3. Program Requirements (20-46 hours)
Cognate or Minor (12-20 hours)
Students completing the French PK-12 Teacher Certification Concentration must complete a Foreign Language Education Minor (p. 146) (20 hours) and the two (2) required internships.

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.
The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

**Electives (0-34 hours)**

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

**4. Major Requirements (27-45 hours)**

*a minimum grade of C is required in all major courses*

### Major Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 309</td>
<td>Reading French Texts</td>
<td>3</td>
</tr>
<tr>
<td>FREN 310</td>
<td>Advanced Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>FREN 311</td>
<td>French Composition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

### Major Electives (18 hours)

Select an additional 18 hours from FREN 300-500 with approval of the Undergraduate Advisor

**PK-12 Teacher Certification Concentration (45 hours) optional**

Students in the French PK-12 Teacher Certification Concentration must complete the Foreign Language Education Minor (p. 146) and the two (2) required internships as part of the program.

### Course | Title                                | Credits |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 309</td>
<td>Reading French Texts</td>
<td>3</td>
</tr>
<tr>
<td>FREN 310</td>
<td>Advanced Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>FREN 311</td>
<td>French Composition</td>
<td>3</td>
</tr>
<tr>
<td>FREN 517</td>
<td>French Linguistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Select an additional 15 hours from FREN 300-FREN 500 with approval of the Undergraduate Advisor</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Internships and Student Teaching

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORL 448</td>
<td>Teaching Internship in Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>FORL 474</td>
<td>Directed Teaching in Foreign Languages</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>45</strong></td>
</tr>
</tbody>
</table>

Note: Students must score at least advanced-low on the Oral Proficiency Interview before their student teaching internship.

**Application and Admission**

Application and admission to the professional program in education/internship are required for all majors seeking teacher certification. All teacher education candidates must adhere to all education policies and procedures related to clinical experiences and meet University and S.C. Board of Education requirements in order to be recommended for certification. Information is available from academic advisors or the College of Education, Advising and Student Services office, at 803-777-6732.

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

French, B.A. No Concentration ([https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_fren_map.pdf](https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_fren_map.pdf))

French, B.A. PK-12 Teacher Certification Concentration ([https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_fren-pk12_map.pdf](https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_fren-pk12_map.pdf))

### German Minor

**Minor Requirements**

A minor in German requires eighteen hours of course work on the 200-level and above.

### Course | Title                                      | Credits |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 210</td>
<td>Intermediate German</td>
<td>6</td>
</tr>
<tr>
<td>GERM 211</td>
<td>Intermediate German</td>
<td></td>
</tr>
<tr>
<td>GERM 280</td>
<td>German Culture and Civilization</td>
<td></td>
</tr>
<tr>
<td>GERM 290</td>
<td>Viking Mythology</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Select four courses on the 300-level and above from the following:</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td>GERM 310</td>
<td>German Conversation</td>
<td></td>
</tr>
<tr>
<td>GERM 311</td>
<td>German Conversation and Composition</td>
<td></td>
</tr>
<tr>
<td>GERM 316</td>
<td>Advanced German for Business and Other Professions I</td>
<td></td>
</tr>
<tr>
<td>GERM 320</td>
<td>German Kabaret Production</td>
<td></td>
</tr>
<tr>
<td>GERM 333</td>
<td>Study of German Abroad</td>
<td></td>
</tr>
<tr>
<td>GERM 340</td>
<td>Readings in German Literature</td>
<td></td>
</tr>
<tr>
<td>GERM 398</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>GERM 401P</td>
<td>Practicum in Teaching German to Young Children</td>
<td></td>
</tr>
<tr>
<td>GERM 411</td>
<td>Advanced German Conversation</td>
<td></td>
</tr>
<tr>
<td>GERM 416</td>
<td>Advanced German for Business and Other Professions II</td>
<td></td>
</tr>
<tr>
<td>GERM 420</td>
<td>Medieval German Literature and Culture</td>
<td></td>
</tr>
<tr>
<td>GERM 430</td>
<td>The German Enlightenment and its Countercurrents</td>
<td></td>
</tr>
<tr>
<td>GERM 440</td>
<td>German Literature and Culture from 1800-1871</td>
<td></td>
</tr>
<tr>
<td>GERM 450</td>
<td>German Literature from 1890-1945</td>
<td></td>
</tr>
<tr>
<td>GERM 460</td>
<td>Post-War and Contemporary German Literature</td>
<td></td>
</tr>
</tbody>
</table>
GERM 500 Survey of German Culture
GERM 410 Advanced German Grammar
GERM 515 Introduction to German Linguistics
GERM 580 Topics in German Film
GERM 598 Selected Topics in German

Notes
1. All six courses may be taken above the 200-level. Only one German course taught in English (GERM 280, GERM 290, GERM 398, or GERM 580) may count towards the minor.
2. Students majoring in Business are encouraged to enroll in GERM 316 and GERM 416.
3. A maximum of six hours of GERM 333, Summer Study Abroad, may apply to the German minor.
4. Transfer credit from study in the exchange programs with Bamberg and Wittenberg may be included in the German minor.
5. Students who begin their German minor with knowledge of German and who are placed in the 300-level or higher may petition for credit-by-examination (for a maximum of 6 credits). The student who wants to become proficient in communication skills would, most likely, take the GERM 310, GERM 311, GERM 411 sequence.

German, B.A.

Learning Outcomes
- Students will demonstrate a level of comprehension of spoken standard German that will facilitate interactive communication in German.
- Students will demonstrate advanced proficiency in understanding the written word.
- Students will demonstrate intermediate to advanced level of proficiency in writing German, i.e. express a wide range of needs, experiences, and ideas in German.
- Students will demonstrate intermediate to advanced level of proficiency in speaking German, i.e. express a wide range of needs, experiences, and ideas in German.
- Students will demonstrate basic skills as well as cultural competency in analyzing German literary texts from a variety of historical periods and literary genres and communicate their insights, both orally and in writing.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>Program Requirements</td>
<td>20-46</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>27-45</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours) must be passed with a grade of C or higher
- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)
- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)
- Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)
AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- any overlay or stand-alone CC-CMS (p. 743) course

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course primarily focused on U.S. History HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

Note: Students may use GERM 210 and GERM 211, if needed, to fulfill 6 hours of the Humanities or Fine Arts requirement.

3. Program Requirements (20-46 hours)
Cognate or Minor (12-20 hours) optional for German PK-12 Teacher Certification Concentration
Students completing the German PK-12 Teacher Certification Concentration must complete a Foreign Language Education Minor (p. 146) (20 hours) and the two (2) required internships.

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (0-34 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-
4. Major Requirements (27-45 hours)

_a minimum grade of C is required in all major courses_

**Major Courses (12 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 340</td>
<td>Readings in German Literature</td>
<td>3</td>
</tr>
<tr>
<td>GERM 410</td>
<td>Advanced German Grammar</td>
<td>3</td>
</tr>
<tr>
<td>GERM 411</td>
<td>Advanced German Conversation</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one 400-level literature course from the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 420</td>
<td>Medieval German Literature and Culture</td>
<td></td>
</tr>
<tr>
<td>GERM 430</td>
<td>The German Enlightenment and its Countercurrents</td>
<td></td>
</tr>
<tr>
<td>GERM 440</td>
<td>German Literature and Culture from 1800-1871</td>
<td></td>
</tr>
<tr>
<td>GERM 450</td>
<td>German Literature from 1890-1945</td>
<td></td>
</tr>
<tr>
<td>GERM 460</td>
<td>Post-War and Contemporary German Literature</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours** 12

**Major Electives (15 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>One GERM course at 220 or above</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Three GERM courses at the 300-level or above</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>One GERM course at the 500-level</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours** 15

1 Including GERM 310 and GERM 311, if needed.

Note: Only two GERM courses taught in English may apply to the major. German majors taking a course in English must do some of the readings in German. GERM 398 may be repeated with a different suffix as topics vary.

**PK-12 Teacher Certification Concentration (45 hours) _optional_**

Students in the German PK-12 Teacher Certification Concentration must complete the Foreign Language Education Minor (p. 146) and the two (2) required internships as part of the program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 340</td>
<td>Readings in German Literature</td>
<td>3</td>
</tr>
<tr>
<td>GERM 410</td>
<td>Advanced German Grammar</td>
<td>3</td>
</tr>
<tr>
<td>GERM 411</td>
<td>Advanced German Conversation</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one 400-level literature course from the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 420</td>
<td>Medieval German Literature and Culture</td>
<td></td>
</tr>
<tr>
<td>GERM 430</td>
<td>The German Enlightenment and its Countercurrents</td>
<td></td>
</tr>
<tr>
<td>GERM 440</td>
<td>German Literature and Culture from 1800-1871</td>
<td></td>
</tr>
<tr>
<td>GERM 450</td>
<td>German Literature from 1890-1945</td>
<td></td>
</tr>
<tr>
<td>GERM 460</td>
<td>Post-War and Contemporary German Literature</td>
<td></td>
</tr>
<tr>
<td>GERM 515</td>
<td>Introduction to German Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one GERM course at 200-level or above 3

Select three GERM courses at 300-level or above (including GERM 310 and GERM 311, if needed) 9

**Course Internships and Teaching**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORL 448</td>
<td>Teaching Internship in Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>FORL 474</td>
<td>Directed Teaching in Foreign Languages</td>
<td>15</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 45

Note: Only two GERM courses taught in English may apply to the major. German majors taking a course in English must do some of the readings in German. GERM 398 may be repeated with a different suffix as topics vary.

Students must score at least advanced-low on the Oral Proficiency Interview before their student teaching internship.

**Application and Admission**

Application and admission to the professional program in education/ internship are required for all majors seeking teacher certification. All teacher education candidates must adhere to all education policies and procedures related to clinical experiences and meet University and S.C. Board of Education requirements in order to be recommended for certification. Information is available from academic advisors or the College of Education, Advising and Student Services office, at 803-777-6732.

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

German, B.A. No Concentration (https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_germ_map.pdf)

German, B.A. PK-12 Teacher Certification Concentration (https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_germ-pk-12_map.pdf)

**Italian Minor**

**Minor Requirements (18 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 221</td>
<td>Intermediate Proficiency in Italian I</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 222</td>
<td>Intermediate Proficiency in Italian II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Courses 300-level and Above**

Select 12 hours of the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 310</td>
<td>Italian Conversation</td>
<td></td>
</tr>
<tr>
<td>ITAL 311</td>
<td>Writing in Italian</td>
<td></td>
</tr>
<tr>
<td>ITAL 350</td>
<td>Advanced Italian Study Abroad</td>
<td></td>
</tr>
<tr>
<td>ITAL 398</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>ITAL 399</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ITAL 400</td>
<td>Contemporary Italian Civilization</td>
<td></td>
</tr>
<tr>
<td>ITAL 404</td>
<td>Twentieth Century Italian Literature</td>
<td></td>
</tr>
<tr>
<td>ITAL 405</td>
<td>The Italian Love Lyric</td>
<td></td>
</tr>
<tr>
<td>ITAL 406</td>
<td>Business Readings in Italian</td>
<td></td>
</tr>
<tr>
<td>ITAL 407</td>
<td>Advanced Conversation and Composition</td>
<td></td>
</tr>
</tbody>
</table>
ITAL 411  Italian Literature in Translation
ITAL 412  Post-World War II Italian Cinema
ITAL 499  Senior Project
ITAL 560  Independent Studies in Italian Literature
ITAL 561  Independent Studies in Italian Literature

Total Credit Hours 18

**Japanese Minor**

**Minor Requirements (18 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPA 221</td>
<td>Intermediate Japanese I</td>
<td></td>
</tr>
<tr>
<td>JAPA 222</td>
<td>Intermediate Japanese II</td>
<td></td>
</tr>
<tr>
<td>JAPA 224</td>
<td>Reading and Writing Japanese</td>
<td></td>
</tr>
<tr>
<td>JAPA 240</td>
<td>Introduction to Japanese Culture</td>
<td></td>
</tr>
<tr>
<td>JAPA 321</td>
<td>Advanced Japanese I</td>
<td></td>
</tr>
<tr>
<td>JAPA 322</td>
<td>Advanced Japanese II</td>
<td></td>
</tr>
<tr>
<td>JAPA 331</td>
<td>Japanese for Business I</td>
<td></td>
</tr>
<tr>
<td>JAPA 332</td>
<td>Japanese for Business II</td>
<td></td>
</tr>
<tr>
<td>JAPA 340</td>
<td>Introduction to Japanese Culture and Literature</td>
<td></td>
</tr>
<tr>
<td>JAPA 341</td>
<td>Modern Japanese Literature</td>
<td></td>
</tr>
<tr>
<td>JAPA 350</td>
<td>Japanese Culture and Society through Film</td>
<td></td>
</tr>
<tr>
<td>JAPA 351</td>
<td>Japanese Culture and Society through Theatre</td>
<td></td>
</tr>
<tr>
<td>JAPA 353</td>
<td>Japanese Culture and Society through Animation</td>
<td></td>
</tr>
<tr>
<td>JAPA 398</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>JAPA 399</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>JAPA 421</td>
<td>Advanced Japanese III</td>
<td></td>
</tr>
<tr>
<td>JAPA 422</td>
<td>Advanced Japanese IV</td>
<td></td>
</tr>
<tr>
<td>JAPA 500</td>
<td>Japanese Language in Society</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 18

**Latin Minor**

**Minor Requirements (18 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATN 301</td>
<td>Advanced Readings in Latin Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select five of the following: 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATN 321</td>
<td>Virgil</td>
<td></td>
</tr>
<tr>
<td>LATN 322</td>
<td>Latin Literature of the Golden Age</td>
<td></td>
</tr>
<tr>
<td>LATN 501</td>
<td>Latin Drama</td>
<td></td>
</tr>
<tr>
<td>LATN 502</td>
<td>Cicero</td>
<td></td>
</tr>
<tr>
<td>LATN 504</td>
<td>Horace</td>
<td></td>
</tr>
<tr>
<td>LATN 508</td>
<td>Ovid</td>
<td></td>
</tr>
<tr>
<td>LATN 513</td>
<td>Tacitus</td>
<td></td>
</tr>
<tr>
<td>LATN 514</td>
<td>Livy</td>
<td></td>
</tr>
<tr>
<td>LATN 525</td>
<td>Roman Satire</td>
<td></td>
</tr>
<tr>
<td>LATN 530</td>
<td>Latin Erotic Poetry</td>
<td></td>
</tr>
</tbody>
</table>

LATN 537  Lucretius

Total Credit Hours 18

**Portuguese Minor**

**Minor Requirements (18 Hours)**

Students must successfully complete 18 hours at the 200-level and above in order to earn the Minor in Portuguese. Up to two different Independent Studies (6 credits total) may be used toward the minor. Students may earn up to 6 credits (two courses) on a study abroad program, but these courses must be approved by the Portuguese section coordinator prior to participation in a program abroad.

**Russian Minor**

**Minor Requirements (18 Hours)**

Eighteen credit hours above Russian 122 as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 201</td>
<td>Intermediate Russian I</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 202</td>
<td>Intermediate Russian II</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 301</td>
<td>Russian Conversation and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 302</td>
<td>Russian Conversation and Composition II</td>
<td>3</td>
</tr>
</tbody>
</table>

Literature and Culture

Select six hours of RUSS courses at the 200-500 level 1 6

Total Credit Hours 18

1 Topics courses may be repeated for credit under different topics.

Notes: Students who place into an upper-level language class can replace some or all of the 12 language credits with 400-level language classes or with additional RUSS literature or culture courses at the 200 to 500 level.

For more information, contact:
Alexander Ogden
Ogden@sc.edu
Humanities Office Building, Room 805
(803) 777-8456

Judith Kalb
kalbj@mailbox.sc.edu
Humanities Office Building, Room 912
(803) 777-8454

**Russian, B.A.**

**Learning Outcomes**

- Students will demonstrate a level of comprehension of spoken Russian that will facilitate interactive communication in the language.
- Students will demonstrate advanced proficiency in understanding written Russian.
- Students will demonstrate the ability to speak Russian at an intermediate to advanced level of proficiency, i.e. to express a wide range of needs, experiences, and ideas in Russian.
• Students will demonstrate the ability to write in Russian at an intermediate to advanced level of proficiency, i.e. to express a wide range of needs, experiences, and ideas in Russian.

• Students will recognize and be able to discuss the significance of primary periods and major writers in Russian literature, as well as the major historical, cultural, and social trends of Russian civilization from the medieval period to the present day.

• Students will evaluate and discuss knowledgeably cultural texts or linguistic documents, including major texts of Russian literature, and advance arguments effectively through strong writing and reasoning.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>37-49</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>24</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

• Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

• RUSS 280

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

• any overlay or stand-alone CC-CMS (p. 743) course

INF – Information Literacy 1 (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15 hours)

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-
approved course determined by the College of Arts and Science to fit this geographic category.

or

• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)

• Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (3 hours of Social Science and 3 hours of Fine Arts or Humanities)
• RUSS 201
• RUSS 202

Note: If a student places out of RUSS 201 and RUSS 202, a Humanities or Fine Arts course would be required in place of each as part of the College of Arts and Sciences curriculum.

3. Program Requirements (37-49 hours)

Cognate or Minor (12-18 hours)

Cognate

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (19-37 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (24 hours)

A minimum grade of C is required in all major courses.

Major Courses (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 301</td>
<td>Russian Conversation and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 302</td>
<td>Russian Conversation and Composition II</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 401</td>
<td>Advanced Russian I</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 402</td>
<td>Advanced Russian II</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 319</td>
<td>Nineteenth-Century Russian Literature in Translation</td>
<td>3</td>
</tr>
<tr>
<td>or RUSS 320</td>
<td>Twentieth-Century Russian Literature in Translation</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 15

Major Electives (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 319L</td>
<td>Nineteenth-Century Russian Literature in Russian</td>
<td></td>
</tr>
<tr>
<td>RUSS 320L</td>
<td>Twentieth-Century Russian Literature in Russian</td>
<td></td>
</tr>
<tr>
<td>RUSS 398</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>RUSS 399</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>RUSS 598</td>
<td>Selected Topics in Russian</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 9

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Russian, B.A.
Spanish Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 302</td>
<td>Advanced Spanish</td>
<td>3</td>
</tr>
<tr>
<td>Spanish 200 or Above</td>
<td>Select 6 hours of SPAN 200 or above</td>
<td>6</td>
</tr>
<tr>
<td>Spanish 300 or Above</td>
<td>Select 9 hours of Spanish 300 or above</td>
<td>9</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

1 SPAN 615 may not be applied to the minor.

Spanish, B.A.

Learning Outcomes

• Spanish majors will utilize spoken and written Spanish in order to perform the range of activities stated within the curricular parameters of this goal.

• Spanish majors will participate in various types of content-based interactive communication, write papers, present research in class in Spanish (individually and in groups), and recognize and use correctly a wide range of literary vocabulary in Spanish.

• Students will read, comprehend and analyze a wide variety of literary texts written in Spanish.

• Students will read, discuss, present opinions (orally and in writing) and think critically about past and current events of the Hispanic world (Peninsular Spain and Latin America).

• Students will engage in in-depth discussions about some of the major historical, economic, cultural and social issues that exist in the Hispanic world with an emphasis on interpreting the values inherent to these Hispanic cultures as they form a part of the growing Hispanic population of the U.S. and the world at large.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.

2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

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</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>20-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27-45</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP course (p. 743)

SCI – Scientific Literacy (8 hours)

• Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

• any overlay or stand-alone CC-CMS course (p. 743)
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For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

**Minor**

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. **All minor courses must be passed with a grade of C or higher.** At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

**Electives (0-34 hours)**

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

**4. Major Requirements (27-45 hours)**

*A minimum grade of C is required in all major courses.*

All majors sit for the STAMP test during SPAN 312. Students not taking SPAN 312 on campus should contact the Spanish Program Director for instructions about the test.

**Major (27 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SPAN 302</td>
<td>Advanced Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 303</td>
<td>Cultural Readings and Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 312</td>
<td>Introduction to Reading Hispanic Literary Texts</td>
<td>3</td>
</tr>
</tbody>
</table>
Students in the Spanish PK-12 Teacher Certification Concentration must complete the following coursework (45 hours)

### Intensive Major (33 hours) optional

*A minimum grade of B is required in all major courses.*

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>SPAN 400</td>
<td>Spanish Civilization</td>
<td>3</td>
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<tr>
<td>or SPAN 500</td>
<td>Contemporary Spain</td>
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<tr>
<td>SPAN 401</td>
<td>Latin American Culture</td>
<td>3</td>
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<tr>
<td>or SPAN 501</td>
<td>Contemporary Spanish America</td>
<td></td>
</tr>
<tr>
<td>SPAN 404</td>
<td>Literary Tendencies and Masterpieces of Spain</td>
<td>3</td>
</tr>
<tr>
<td>or SPAN 405</td>
<td>Literary Tendencies and Masterpieces of Spanish America</td>
<td></td>
</tr>
<tr>
<td>SPAN 499</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Attainment of an advanced rating on an oral proficiency interview conducted by a departmentally-approved tester.

Select an additional 12 hours from SPAN 300-500 level courses

Total Credit Hours 33

1 Only one of which may be taught in English, or PORT 299 or above.

### PK-12 Teacher Certification Concentration (45 hours) optional

Students in the Spanish PK-12 Teacher Certification Concentration must complete the Foreign Language Education Minor (p. 146) and the two (2) required internships as part of the program.

<table>
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<td>Literary Tendencies and Masterpieces of Spanish America</td>
<td></td>
</tr>
<tr>
<td>SPAN 515</td>
<td>Introduction to Spanish Linguistics</td>
<td>3</td>
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</tbody>
</table>

Select an additional 6 hours from SPAN 300-500 level courses

Total Credit Hours 45

1 Only one of which may be taught in English, or PORT 299 or above.

Note: Students must score at least advanced-low on the Oral Proficiency Interview before their student teaching internship.

### Application and Admission

Application and admission to the professional program in education/internship are required for all majors seeking teacher certification. All teacher education candidates must adhere to all education policies and procedures related to clinical experiences and meet University and S.C. Board of Education requirements in order to be recommended for certification. Information is available from academic advisors or the College of Education, Advising and Student Services office, at 803-777-6732.

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

### Spanish, B.A. No Concentration

### Spanish, B.A. PK-12 Teacher Certification

### Latin American Studies

Department Website (https://sc.edu/study/colleges_schools/artsandsciences/walker_institute/area_studies/latin_american_studies/)

Matt Childs, Director

Students can select from an array of courses that enable them to explore Latin America from a variety of perspectives while also having the opportunity to focus their studies on a particular field. The minor in Latin American Studies richly complements majors in many other fields, including Anthropology, Business, Geography, Global Studies, Political Science, History, Journalism, and Spanish.

### Courses

**CHIN 103 - Introduction to Chinese Calligraphy (2 Credits)**

Five hundred of the most commonly used Chinese characters. Emphasis is on the phonetic and significant elements common to large groups of ideograms.

**CHIN 121 - Elementary Chinese Mandarin (4 Credits)**

Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.

**Carolina Core:** GFL
CHIN 122 - Basic Proficiency in Mandarin Chinese (4 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills. Admission only by successful completion of Chinese 121.
Prerequisites: CHIN 121.

Carolina Core: GFL

CHIN 221 - Intermediate Mandarin Chinese (3 Credits)
Continued practice of basic sentence patterns used in modern speech with increased emphasis on reading and acquisition of additional characters.

CHIN 222 - Intermediate Mandarin Chinese II (3 Credits)
Continued practice of basic sentence patterns used in modern speech with increased emphasis on reading and acquisition of additional characters.

CHIN 240 - Chinese Culture, Tradition, and Modern Societies (3 Credits)
Introduction to Chinese culture, heritage, and modern societies. Readings selected from printed and online sources. Taught in English.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CHIN 321 - Advanced intermediate Mandarin Chinese I (3 Credits)
Provides advanced intermediate training in spoken and written Chinese. By increasing students’ vocabulary and knowledge of sentence patterns, the course focuses on speaking and writing in coherent, well-formed paragraphs.
Prerequisites: CHIN 222.

CHIN 322 - Advanced Intermediate Mandarin Chinese II (3 Credits)
Continues advanced intermediate training in spoken and written Chinese. Attention is given to complex grammatical patterns, discourse characteristics, and discussions of cultural topics.
Prerequisites: CHIN 321.

CHIN 335 - Women in China (3 Credits)
Introduces the connection between gender and the Chinese national imagination. Readings include cultural and historical documents that purport to explain the experience of women in China. Readings in English. Taught in English.
Cross-listed course: WGST 335
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CHIN 340 - Introduction to Premodern Chinese Literature (3 Credits)
An introduction to the most important works, authors, genres, and themes of Chinese literature from the first millennium B.C.E. to 1911.

CHIN 341 - Modern Chinese Literature (3 Credits)
Readings of canonical texts from modern Chinese literature. A focus is on the role of literature and other cultural documents in the imagination of China as a modern nation. Readings and discussion in English.

CHIN 365 - Screening China (3 Credits)
Survey of Chinese language cinema. Chinese film history and vocabulary with which to discuss film texts. Covers classic leftwing cinema, Hong Kong martial arts films, as well as the Hong Kong, Taiwan, and PRC New Waves. Taught in English. Films subtitled.
Cross-listed course: FAMS 365

CHIN 398 - Selected Topics (3 Credits)
Intensive study in selected authors or literary movements of China, including cultural aspects. May be repeated for credit under different titles. Taught in English.

CHIN 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

CHIN 421 - Advanced Chinese I (3 Credits)
Acquisition of advanced grammar and vocabulary. Emphasis on building oral proficiency in professional settings.
Prerequisites: CHIN 322.

CHIN 422 - Advanced Chinese II (3 Credits)
Continued acquisition of advanced grammar and vocabulary. Emphasis on expanding communicative abilities in a wider variety of interpersonal situations.
Prerequisites: CHIN 421.

CHIN 550 - Advanced Special Topics in Chinese Studies (3 Credits)
Advanced special topics in Chinese studies. May be repeated as content varies by title.

LASP 201 - Latin American, Caribbean, and Latino/a Cultures through Film (3 Credits)
Interdisciplinary introduction to the diversity of landscapes and political and social issues in Latin America's history. Films, lectures, and readings provide an overall comprehensive perspective. Lectures by faculty in Spanish, Portuguese, anthropology, and history.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

LASP 301 - Interdisciplinary Study of Latin America (3 Credits)
Anthropology, geography, history, politics, language, and culture of Latin America.
Graduation with Leadership Distinction: GLD: Global Learning

LASP 305 - Working with Hispanic Clients (3 Credits)
Crosscultural approaches to interactions with persons of Hispanic origin in a variety of professional settings. Readings, speakers, media. Taught in Spanish. Departmental permission required for transfer students.
Prerequisites: B or better in SPAN 210 or SPAN 211; placement at 300 level on Phase II placement exam.
Cross-listed course: SPAN 305
Graduation with Leadership Distinction: GLD: Community Service, GLD: Global Learning

LASP 311 - Latin American Cultures (3 Credits)
Comparative study of selected Latin American cultures with emphasis on their significance for a broader anthropological theory.
Cross-listed course: ANTH 301
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 315 - South American Indian Cultures (3 Credits)
An examination of ethnographic data on South American Indians, emphasizing methods used to acquire those data and their applications to theoretical considerations.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 322 - Mesoamerican Prehistory (3 Credits)
Cultural development and variation in Mesoamerica from the first arrival of man to the arrival of Europeans. Particular attention to cultural continuities from prehistoric times.
Cross-listed course: ANTH 331
LASP 325 - Prehistoric Civilizations of the New World (3 Credits)
Study of Mesoamerican and South American civilizations, particularly the Mayan, Aztec, and Inca states. Processes of state formation as reflected in archaeological data.
Cross-listed course: ANTH 327

LASP 331 - Geography of Latin America (3 Credits)
Physical and human geography of Latin America.
Cross-listed course: GEOG 223

Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

LASP 341 - Colonial Latin America (3 Credits)
The establishment and consolidation of the Spanish and Portuguese empires in the Western hemisphere; interaction of Indians, Africans, and Iberians, and the formation of social, economic, and political traditions in Latin America; political independence.
Cross-listed course: HIST 420

LASP 342 - Modern Latin America (3 Credits)
Traditional society in the area and problems arising from social, economic, and political changes since independence; comparative studies of national responses to these problems.
Cross-listed course: HIST 421
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 351 - Politics and Governments of Latin America (3 Credits)
The development, principles, political thought, and politics of the several Latin American states.
Cross-listed course: POLI 488
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 361 - Spanish American Civilization (3 Credits)
Lectures, readings, and visuals on selected topics of Spanish American civilization and its cultural heritage.
Cross-listed course: HIST 421
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 371 - Literary Tendencies and Masterpieces of Spanish America (3 Credits)
A survey of the masterworks and literary tendencies of Spanish America.
Prerequisites: SPAN 312.
Cross-listed course: SPAN 405

LASP 398 - Special Topics in Latin American Studies (3 Credits)
Selected Topics on Latin America. May be repeated for credit as content varies by title.
LASP 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

LASP 425 - Prehistoric Archaeology of South America (3 Credits)
Prehistoric archaeology of the South American continent.
Cross-listed course: ANTH 534

LASP 441 - Social and Economic History of Latin America (3 Credits)
The evolution of social groups and changes in economic patterns in Latin America from pre-Columbian times to the present.
Cross-listed course: HIST 422

LASP 442 - History of Mexico (3 Credits)
Mexico from the pre-conquest period to the present, with an emphasis on modern Mexico.
Cross-listed course: HIST 423

LASP 451 - International Relations of Latin America (3 Credits)
Contemporary international relations among Latin American states, including economic and political security and relations with the United States.
Cross-listed course: POLI 437
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 471 - Contemporary Spanish-American Literature (3 Credits)
Survey of the most significant work from 1960 to the present.
Cross-listed course: SPAN 557

LASP 496 - Senior Seminar (3 Credits)
Study in depth of a topic on Latin America.
Graduation with Leadership Distinction: GLD: Research

LASP 501 - Contemporary Spanish America (3 Credits)
Analysis and discussion of the 20th-century Spanish American history and the sociocultural forces that have contributed to define this area's national identities. Taught in Spanish.
Cross-listed course: SPAN 501

LASP 541 - Colonial Spanish-American Literature to Neoclassicism (3 Credits)
Survey or pre-Columbian poetry and of texts dating from the time of Columbus to the end of the Colonial period.
Cross-listed course: SPAN 541

Linguistics

Department Website (http://www.cas.sc.edu/ling/)

Mila Tasseva-Kurktchieva, Director

Linguistics is the scientific study of language. Its various subdisciplines investigate how speech sounds are organized (phonetics and phonology), how words, phrases, and sentences are structured (morphology and syntax), and how meaning is structured and interpreted (semantics and pragmatics). Linguistics also includes the study of how language is learned (language acquisition), how it is represented in the mind (psycholinguistics), how it changes over time (historical linguistics), and how it relates to social and cultural phenomena (sociolinguistics and linguistic anthropology).

At the undergraduate level the program offers the possibility of an undergraduate minor or cognate field in linguistics, and knowledge gained in such a course of study can complement a wide variety of disciplines. Students who would especially benefit from a minor or cognate in linguistics are those majoring in anthropology, computer science, English, French, German, philosophy, psychology, and Spanish. A linguistics minor is also good preparation for a graduate program in speech pathology. A student wishing to have linguistics as a major concentration of study may pursue an emphasis in the field through the Bachelor of Arts in Interdisciplinary Studies (B.A.I.S.) degree program. Further information about the B.A.I.S. program may be obtained from the College of Arts and Sciences.

The recommended first step in learning about linguistics is LING 101 which satisfies a Global Citizenship and Multicultural Understanding: Social Sciences Carolina Core requirement. After the introduction gained in this course, the student is prepared for specialized courses on the 200-500 level. (There are, however, no formal prerequisites for these courses.) Possibilities include courses on the structure of human language, language in society, history of language, acquisition
of language, and courses devoted to the description of a particular language: English, French, German, or Spanish.

Majoring in one of the related disciplines and minoring in linguistics can prepare students for a variety of careers, including teaching, translating, foreign service, and social work, or for graduate study in linguistics and any of its related fields. For students who want to pursue linguistics past the undergraduate level, the USC Linguistics Program offers a comprehensive graduate program in linguistics, which leads to the M.A. and Ph.D. degrees or the Graduate Certificate in Teaching English to Speakers of Other Languages.

Courses

LING 101 - Linguistics 1: Introduction to Language (3 Credits)
Introduction to the human capacity for language and to how it is acquired. Investigation of language varieties, dialects, and styles. Examination of the social and geographical factors that contribute to language variation and change.
Carolina Core: GSS

LING 102 - Integrated Linguistic Skills for Non-Native Speakers 1 (3 Credits)
Linguistic skills for low-advanced non-native speakers of English related to writing, grammar, reading, listening and speaking for academic purposes. Students enrolled in the International Accelerator Program.
Corequisite: LING 103.

LING 103 - Integrated Linguistic Skills for Non-Native Speakers 2 (3 Credits)
Linguistic skills for low-advanced non-native speakers of English related to writing, grammar, reading, listening and speaking for academic purposes with a focus on research skills. Students enrolled in the International Accelerator Program.
Corequisite: LING 102.

LING 104 - Integrated Linguistic Skills for Non-Native Speakers 3 (3 Credits)
Linguistic skills for advanced non-native speakers English related to writing, grammar, reading, listening and speaking for academic purposes with a focus on productive skills. Students enrolled in the International Accelerator Program.

LING 105 - Special Topics in Linguistics I (3 Credits)
Topics of a broad nature that require no previous study in linguistics. May be repeated as content varies by title.

LING 140 - Linguistic Diversity Awareness (2 Credits)
A course designed to cultivate awareness of phonological and grammatical differences among dialects of English and ability to switch comfortably between one's dialect and standard usage. Two-hour lecture and laboratory.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

LING 205 - Special Topics in Linguistics II (3 Credits)
Topics of a more focused nature that require no previous study in linguistics. May be repeated as content varies by title.

LING 240 - Language Conflict and Language Rights (3 Credits)
Examination of linguistic conflict and rights, as well as centrality of language rights to human rights and personal/cultural identity. Basic facts about language related to identity, culture, attitudes, dialects, bilingualism. Case studies (local, national, international) with particular attention to nationalism, language revitalization, language planning.
Cross-listed course: POLI 240
Carolina Core: VSR

LING 241 - Language and Popular Culture (3 Credits)
Linguistic anthropological study of forms of language through the lens of popular culture. Explore the ethnography of communication through play and performance, discursive and semiotic practices, and varieties of language invoked in popular cultural forms that provide resources for cultural reproduction and contestation.
Cross-listed course: ANTH 271

LING 242 - Language and Humor at the Intersections of Religion, Race, Ethnicity, and Gender (3 Credits)
Explores language and humor, looking at (i) the linguistic structure and psychology of humor, (ii) changing societal standards for humor, (iii) racial, ethnic, religious, and gender-based humor, and (iv) socio-political questions surrounding the use of these.

LING 243 - Korean Popular Culture and Language (3 Credits)
Introduction to linguistic and anthropological concepts through the lens of South Korean popular culture.

LING 273 - Cross-Cultural Communication (3 Credits)
This course introduces students to the fields of interactional sociolinguistics and linguistic anthropology. Students will learn how they approach the study of cross-cultural and intercultural forms of (mis)communication within the context of globally interconnected people, places, and systems of communication.
Cross-listed course: ANTH 273
Carolina Core: GSS

LING 300 - Introduction to Language Sciences (3 Credits)
Introduction to the linguistic component of human cognition. Properties of speech, the organization of language in the mind/brain, cross-linguistic universals, child language acquisition, and aspects of adult language processing.
Cross-listed course: ANTH 373, PSYC 470

LING 301 - The English Language (3 Credits)
Introduction to the field of linguistics with an emphasis on English. Covers the English sound system, word structure, and grammar. Explores history of English, American dialects, social registers, and style.
Cross-listed course: ENGL 389

LING 303 - Chinese Language and Society (3 Credits)
A comprehensive and up-to-date survey of Chinese language in a social context, teaching students not only the linguistic structure of modern standard Chinese but also how language and society mutually influence each other in history and today's digital age. Hands-on instruction to carry out linguistic research.
Prerequisites: C or better in CHIN 121.

LING 305 - Special Topics in Linguistics III (3 Credits)
Reading and research on selected topics in linguistics that may require previous study in linguistics or a related field.
Prerequisites: listed for each course offering. May be repeated as content varies by title.
LING 314 - Spanish Phonetics and Pronunciation (3 Credits)
Analysis of and practice in pronunciation, listening comprehension, and dialect recognition based on study of the speech sounds, combinations, patterns, and processes of Spanish phonetics and phonology. Department permission required for transfer students.
**Prerequisites:** C+ or better in SPAN 302; placement at 300 level of Phase II placement exam.

**Cross-listed course:** SPAN 317

LING 316 - French Phonetics (3 Credits)
Analysis of and practice in pronunciation and listening comprehension.
**Prerequisites:** C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam.

**Cross-listed course:** FREN 300

LING 340 - Language, Culture, and Society (3 Credits)
Language in its social setting. The relationship between linguistic categories and culture categories. Language and cognition.
**Cross-listed course:** ANTH 355

**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LING 345 - Language in the USA (3 Credits)
Linguistic examination of the structure, history, and use of language varieties in the U.S., with a particular focus on regional and sociocultural variation and relevant sociolinguistic issues.
**Cross-listed course:** ENGL 370

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

LING 395 - Teaching English Abroad (3 Credits)
An intensive, hands-on introduction to principles and techniques of teaching English language learners, exposing students to norms of the field of Teaching English to Speakers of Other Languages (TESOL), working with non-native English speakers, and discovering TESOL opportunities worldwide.

LING 399 - Independent Study (1-3 Credits)
Contract approved by instructor, advisor, and program director is required for undergraduate students.

**Graduation with Leadership Distinction:** GLD: Research

LING 405 - Topics in Linguistics (3 Credits)
Intensive study of selected topics; may emphasize interdisciplinary themes.

LING 421 - English Grammar (3 Credits)
Major structures of English morphology and syntax; role of language history and social and regional variation in understanding contemporary English.
**Cross-listed course:** ENGL 450

LING 431 - Development of the English Language (3 Credits)
History of English from the earliest Old English texts through Middle English to Contemporary English. No previous knowledge of Old or Middle English is required.
**Cross-listed course:** ENGL 453

LING 440 - Language in Society (3 Credits)
Patterns in language use as a reflection of social group memberships or the negotiation of interpersonal relationships; special attention to social dialects and stylistic difference in American English.

**Cross-listed course:** ENGL 455

**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LING 442 - African-American English (3 Credits)
Linguistic examination of the structure, history, and use of African-American English, as well as literary presentations, language attitudes, and issues relating to education and the acquisition of Standard English.
**Cross-listed course:** AFAM 442, ANTH 442, ENGL 457

**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

LING 472 - Introduction to Technology in Language Education (3 Credits)
Acquaints students with principles and practices concerning the use of technology in foreign language teaching. Explores connections between second language acquisition and the implementation of Internet and multimedia technologies.
**Prerequisites:** FORL 511.

**Cross-listed course:** FORL 472

LING 474 - Bilingualism (3 Credits)
Bilingual language development, social and cultural aspects of bilingualism, the bilingual brain, bilingualism throughout the lifespan.

LING 502 - French Linguistics (3 Credits)
The structure, morphology, and syntax of modern French.
**Cross-listed course:** FREN 517

LING 503 - Introduction to German Linguistics (3 Credits)
Structural and descriptive linguistics applied to the German language.
**Cross-listed course:** GERM 515

LING 504 - Introduction to Spanish Linguistic (3 Credits)
Phonology, morphology, and syntax of modern Spanish.

LING 505 - Interdisciplinary Topics in Linguistics (3 Credits)
Topics selected by the instructor for specialized study. Course content varies and will be announced in the schedule of classes title. May be repeated with different title.

LING 512 - French Phonology (3 Credits)
The sound system and its functioning in the morphological system of French from the point of view of current phonological theory.
**Cross-listed course:** FREN 516

LING 514 - Contrastive English-Spanish Phonetics and Phonology (3 Credits)
Introduction to the study of phonetics and phonology and their application to the sounds and sound systems of English and Spanish. Includes transcription practice and discussion of relevance to teaching.
**Cross-listed course:** SPAN 517

LING 521 - Advanced English Grammar (3 Credits)
Practical survey of the syntactic structures of English; usage, social and regional variation emphasis on data.
**Prerequisites:** LING 421/ENGL 450 or LING 600/ENGL 680.
LING 527 - Introduction to Mathematical Methods in Linguistics (3 Credits)
Introduction to mathematical mechanisms that play a prominent role in the formalization of syntactic and semantic theories, showing how they are applied to an understanding of the working parts of human language. The topics covered include: set theory, logic, English as a formal language, and languages & grammars.

LING 530 - Language Change (3 Credits)
Major ways in which phonetics, phonology, syntax, morphology, and semantics change through language history; social factors which promote innovation.

LING 533 - Introduction to the Germanic Languages (3 Credits)
Introduction to historical Germanic linguistics including a survey of the Old Germanic languages (Old English, Old Frisian, Old Saxon, Old High German, Old Norse, Gothic); comparative phonology, morphology, and syntax, typology of modern Germanic languages and dialects; and common Germanic in its Indo-European context.

Cross-listed course: GERM 517

LING 540 - Topics in Language and Culture (3 Credits)
Introduction to sociolinguistic issues, focusing on a single language. Course content varies and will be announced by title. May be repeated twice as topics vary.

LING 541 - Language and Gender (3 Credits)
Approaches to gender and language emphasizing the social grounding of both; how language reflects sociocultural values and is a tool for constructing different types of social organization.

Cross-listed course: ANTH 555, WGST 555
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LING 542 - Research in Language Conflict and Language Rights (3 Credits)
Research into the parameters governing linguistic conflicts and language rights issues, involving a close examination of the nexes of language and: individual and ethnic identity, culture, dialects, bilingualism. Examination of regional, national, and international case studies, with particular attention to nationalism, language revitalization, and language planning.

Cross-listed course: POLI 542

LING 543 - Discourse, Gender, and Politics of Emotion (3 Credits)
Anthropological approach to issues of discourse, gender, and emotion. Issues under consideration include the social control, force, and forms of emotional discourse and the relationship between emotion and culture from gender-oriented perspectives.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

LING 545 - Anthropological Approaches to Narrative and Performance (3 Credits)
The ways people from various cultures reflect on, reinforce, and construct their social realities through narrating, which will be considered as both artistic expression and social action.

Cross-listed course: ANTH 553

LING 546 - Japanese Language in Society (3 Credits)
Japanese language and communication in its socio-cultural context; emphasis on comparison with American English. Taught in English.

Cross-listed course: JAPA 500

LING 548 - German Sociolinguistics (3 Credits)
Introduction to the study of variation in Modern German. Traditional German dialectology and dialect geography, language and society, multilingualism in the German-speaking countries, German in contact with other languages.

Cross-listed course: GERM 518

LING 554 - The Structure of Modern Spanish (3 Credits)
Description of the grammatical structures of Modern Spanish. Intensive study of the theory and practice of word formation and sentence structure of Spanish.

Cross-listed course: SPAN 516

LING 556 - Language and Globalization (3 Credits)
Anthropological approach to issues of language and globalization. Linguistic consequences of globalization under consideration include communicative patterns, linguistic change, and language and political economy.

Cross-listed course: ANTH 556
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LING 565 - Philosophy of Language (3 Credits)
An examination of concepts and problems such as meaning, reference, analyticity, definition, and the relation between logic and philosophy.

Prerequisites: PHIL 202.

Cross-listed course: PHIL 517

LING 567 - Psychology of Language (3 Credits)
Theories of speech perception, linguistic theories of syntax and semantics, the brain mechanisms underlying language, the development of language in children, and the role of language in thought.

Cross-listed course: PSYC 506

LING 570 - Introduction to Language Development (3 Credits)
The language acquisition process in normal children, including the development of semantics, morphology, syntax, phonology, and pragmatics; American dialects and bilingualism.

Prerequisites: COMD 501 and COMD 507.

Cross-listed course: COMD 570

LING 600 - Survey of Linguistics (3 Credits)
Survey of core areas of linguistics and extensions to closely related disciplines. Introduction to the linguistic component of human cognition. Formal description and analysis of the general properties of speech and language, the organization of language in the mind/brain, and cross-linguistic typology and universals.

Cross-listed course: ANTH 600, ENGL 680

LING 627 - Introduction to Semantics and Pragmatics (3 Credits)
An introduction to the study of linguistic meaning, including the following topics: meaning, reference, and truth; the connections among language, thought, and reality; word meaning and sentence meaning; possible worlds and modality; thematic roles; meaning and context; presupposition and implicature; speech acts; formal semantics; and cognitive semantics.

Prerequisites: LING 300, LING 301, or LING 600.

LING 650 - Introduction to Morphology (3 Credits)
Foundations of generative morphology, focusing on morphological data collection and analysis; the structure of the lexicon; and the interfaces between morphology and phonology, semantics, and syntax.

Prerequisites: LING 300, LING 301, or LING 600.
Mathematics

Department Website (http://www.math.sc.edu/)

Linyuan Lu, Chair

The department offers a program leading to the degree of Bachelor of Science in mathematics and a special five-year program leading to a Bachelor of Science degree and a Master of Science degree in mathematics. In addition, the department serves many of the disciplines within the University through course offerings which provide basic mathematical skills necessary to the pursuit of studies in these disciplines.

General Mathematics Courses

MATH 111 is a course in basic mathematics intended for students who plan to take MATH 122 or MATH 170 and who need more thorough development in algebraic methods.

MATH 111I is an intensive version of MATH 111. This course is intended for students who plan to take MATH 122 or MATH 170 and desire additional support—in the form of smaller classes and more contact hours—to develop the necessary algebraic skills.

MATH 112 is the basic trigonometry course for students who plan to take MATH 141 and have adequate preparation in algebra but need more thorough development in trigonometry. This course may not be used for mathematics credit in the College of Engineering and Computing.

MATH 115 is the basic precalculus course for students who plan to take MATH 141 and need more thorough development in algebra and trigonometry before entering MATH 141. This course may not be used for mathematics credit in the College of Engineering and Computing.

MATH 122 is intended for students in business, the social sciences, pharmacy, and other disciplines which require an introduction to computational mathematics and calculus and is open to all interested students who satisfy the general requirements listed below.

MATH 141, MATH 142, MATH 241 constitute the normal calculus sequence for students in the College of Arts and Sciences and the College of Engineering and Computing. These courses are open to all students who satisfy the general requirements listed below.

MATH 170 is a basic course in finite mathematics. It may be used to satisfy the University's core requirements and is open to all interested students who satisfy the general requirements listed below.

Freshman Placement in Mathematics

MATH 111: Qualification through placement.

MATH 112: Qualification through placement.

MATH 115: Qualification through placement.

MATH 122: Qualification through placement or credit for MATH 111, either by successful completion of the course with a grade of C or better, transfer credit from another university, or successful completion of the test in MATH 111, available from the testing service.

MATH 141: Qualification through placement or credit for MATH 112 or MATH 115, either by successful completion of the course with a grade of C or better, transfer credit from another university, or successful completion of the test in MATH 115, available from the testing service.

Students who do not qualify for MATH 141 under paragraph 1 are strongly encouraged to try to obtain credit for MATH 115 either by taking the course or the examination during the summer preceding their first fall semester.

MATH 170: Qualification through placement or credit for MATH 111 or MATH 115, either by successful completion of the course with a grade of C or better, transfer credit from another university, or successful completion of the test in MATH 111 or MATH 115 which is available from the testing service.

Incoming students who wish to obtain bypass credit for certain mathematics courses may do so as follows:

MATH 111: CLEP Subject Examination titled "College Algebra" available from the testing service.

MATH 112: CLEP Subject Examination titled "Trigonometry" available from the testing service.

MATH 115: CLEP Subject Examination titled "College Algebra-Trigonometry" available from the testing service.

MATH 141: CLEP Subject Examination titled "Calculus with Analytic Geometry" available from the testing service.

Advanced Placement Test in Mathematics: The Advanced Placement Mathematics tests may be used to gain credit and advanced placement in calculus. Information is available from the testing service.

Programs

• Actuarial Mathematics and Statistics Minor (p. 168)
• Mathematical Biology Minor (p. 169)
• Mathematics Minor (p. 170)
• Mathematics, B.S. (p. 170)

Courses

MATH 111 - Basic College Mathematics (3 Credits)
Basic college algebra; linear and quadratic equations, inequalities, functions and graphs of functions, exponential and logarithm functions, systems of equations.
Prerequisites: placement through Algebra version of the Mathematics Placement Test.

MATH 111I - Intensive Basic College Mathematics (4 Credits)
An intensive treatment of the topics covered in MATH 111.
Prerequisites: placement through Algebra version of the Mathematics Placement Test.
MATH 112 - Trigonometry (2 Credits)
Topics in trigonometry specifically needed for MATH 141, MATH 142, MATH 241. Circular functions, analytic trigonometry, applications of trigonometry. Credit may not be received for both MATH 112 and MATH 115.
Prerequisites: C or better in MATH 111 or MATH 111i, or placement through Algebra version of the Mathematics Placement Test.

MATH 115 - Precalculus Mathematics (4 Credits)
Topics in algebra and trigonometry specifically needed for MATH 141, MATH 142, MATH 241. Subsets of the real line, absolute value; polynomial, rational, inverse, logarithmic, exponential functions; circular functions; analytic trigonometry.
Prerequisites: C or better in MATH 111 or MATH 111i, or placement through Precalculus version of the Mathematics Placement Test.

MATH 116 - Brief Precalculus Mathematics (2 Credits)
Essential algebra and trigonometry topics for Calculus, including working with equations that involve polynomials, rational functions, exponential and logarithmic functions, and trigonometric and inverse trigonometric functions. Intended for students with prior experience in Precalculus, but not ready for MATH 141.
Prerequisites: C or better in MATH 112 or MATH 115, or placement through Precalculus version of the Mathematics Placement Test.

MATH 122 - Calculus for Business Administration and Social Sciences (3 Credits)
Derivatives and integrals of elementary algebraic, exponential, and logarithmic functions. Maxima, minima, rate of change, motion, work, area under a curve, and volume.
Prerequisites: C or better in MATH 111, MATH 111i or MATH 115 or placement through Algebra version of the Mathematics Placement Test.

Carolina Core: ARP
MATH 141 - Calculus I (4 Credits)
Functions, limits, derivatives, introduction to integrals, the Fundamental Theorem of Calculus, applications of derivatives and integrals. Four classroom hours and one laboratory hour per week.
Prerequisites: C or better in Math 112, MATH 115, or MATH 116, or placement through Precalculus version of the Mathematics Placement Test.

Carolina Core: ARP
MATH 142 - Calculus II (4 Credits)
Methods of integration, sequences and series, approximations. Four classroom hours and one laboratory hour per week.
Prerequisites: C or better in MATH 141.

Carolina Core: ARP
MATH 151 - Calculus Workshop I (2 Credits)
Small study group practice in applications of calculus. For elective credit only.
Corequisite: MATH 141.

MATH 152 - Calculus Workshop II (2 Credits)
Small study group practice in applications of calculus. For elective credit only.
Corequisite: MATH 142.

MATH 170 - Finite Mathematics (3 Credits)
Elementary matrix theory; systems of linear equations; permutations and combinations; probability and Markov chains; linear programming and game theory.
Prerequisites: C or better in MATH 111 or MATH 111i or MATH 122, or placement through Algebra version of the Mathematics Placement Test.

Carolina Core: ARP
MATH 172 - Mathematical Modeling for the Life Sciences (3 Credits)
Biological modeling with differential and difference equations; techniques of model modifications; analytic, numerical, and graphical solution methods; equilibria, stability, and long-term system behavior; geometric series; vectors, matrices, eigenvalues, and eigenvectors. Applications principally to population dynamics and compartment models.
Prerequisites: C or better in MATH 122 or MATH 141.

Carolina Core: ARP
MATH 174 - Discrete Mathematics for Computer Science (3 Credits)
Logic, number theory, sequences, series, recursion, mathematical induction, set theory, enumeration, functions, relations, graphs and trees. Connections to computers and to programming are emphasized when possible.
Prerequisites: C or better in MATH 115, MATH 116, MATH 122, or MATH 141, or placement through the pre-calculus version of the Mathematics Placement Test.

Carolina Core: ARP
MATH 176 - Introduction to Careers and Research in the Mathematical Sciences (1 Credit)
An overview of different areas of mathematical research and career opportunities for mathematics majors. Pass/fail only.
Prerequisites: C or better in MATH 141.

Graduation with Leadership Distinction: GLD: Research
MATH 221 - Basic Concepts of Elementary Mathematics I (3 Credits)
The meaning of number, fundamental operations of arithmetic, the structure of the real number system and its subsystems, elementary number theory. Open only to students in elementary or early childhood teacher certification.
Prerequisites: C or better in MATH 111 or MATH 111i or placement through Algebra version of the Mathematics Placement Test.

MATH 222 - Basic Concepts of Elementary Mathematics II (3 Credits)
Informal geometry and basic concepts of algebra. Open only to students in elementary or early childhood teacher certification.
Prerequisites: C or better in MATH 221.

MATH 241 - Vector Calculus (3 Credits)
Vector algebra, geometry of three-dimensional space; lines, planes, and curves in space; polar, cylindrical, and spherical coordinate systems; partial differentiation, max-min theory; multiple and iterated integration, line integrals, and Green’s theorem in the plane.
Prerequisites: C or better in MATH 142.

MATH 242 - Elementary Differential Equations (3 Credits)
Ordinary differential equations of first order, higher order linear equations, Laplace transform methods, series methods; numerical solution of differential equations. Applications to physical sciences and engineering.
Prerequisites: C or better in MATH 142.
MATH 300 - Transition to Advanced Mathematics (3 Credits)
Rigor of mathematical thinking and proof writing via logic, sets, and functions. Intended to bridge the gap between lower-level (computational-based) and upper-level (proof-based) mathematics courses.
Prerequisites: C or better in MATH 142.

MATH 344 - Applied Linear Algebra (3 Credits)
General solutions of systems of linear equations, vector spaces and subspaces, linear transformations, determinants, orthogonality, characteristic polynomials, eigenvalues and eigenvectors, singular value decomposition, and generalized inverse. MATH 344L is an optional laboratory course where additional applications will be discussed.
Prerequisites: C or better in MATH 142.

MATH 344L - Applied Linear Algebra Lab (1 Credit)
Computer based applications of linear algebra for science and engineering students. Topics include numerical analysis of matrices, direct and indirect methods for solving linear systems, and least squares method (regression). Typical applications include practical issues related to discrete Markov processes, image compression, and linear programming. Credit not allowed for both MATH 344L and 544L.
Prerequisite or Corequisite: C or better or concurrent enrollment in MATH 344.

MATH 374 - Discrete Structures (3 Credits)
Propositional and predicate logic; proof techniques; recursion and recurrence relations; sets, combinatorics, and probability; functions, relations, and matrices; algebraic structures.
Prerequisites: C or better in both MATH 142 and CSCE 146.

MATH 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

MATH 401 - Conceptual History of Mathematics (3 Credits)
Topics from the history of mathematics emphasizing the 17th century to the present. Various mathematical concepts are discussed and their development traced. For elective or Group II credit only.
Prerequisites: C or better in MATH 122 or MATH 141.

MATH 490 - Mathematics Internship (1-3 Credits)
Academic counterpart to a professional work experience in which mathematics plays a central role. Introduction to the uses of problem formulation and problem solving in a working environment. Introduction to career possibilities for a student trained in mathematics. Restricted to MATH major with 3.0 or better GPA and completion of at least 60 credits.
Prerequisites: C or better in MATH 241, MATH 300 and at least one 500 level MATH course; CSCE 145 or CSCE 206 and one of the following STAT courses STAT 509, STAT 512, STAT 515.

MATH 499 - Undergraduate Research (1-3 Credits)
Research on a specific mathematical subject area. The specific content of the research project must be outlined in a proposal that must be approved by the instructor and the Undergraduate Director. Intended for students pursuing the B.S. in Mathematics with Distinction. Pass-Fail grading only.
Graduation with Leadership Distinction: GLD: Research

MATH 511 - Probability (3 Credits)
Probability and independence; discrete and continuous random variables; joint, marginal, and conditional densities, moment generating functions; laws of large numbers; binomial, Poisson, gamma, univariate, and bivariate normal distributions.
Prerequisites: C or better in MATH 241.
Corequisite: MATH 241.

Cross-listed course: STAT 511

MATH 514 - Financial Mathematics I (3 Credits)
Prerequisites: C or better in MATH 241.

Cross-listed course: STAT 522

MATH 515 - Financial Mathematics II (3 Credits)
Prerequisites: C or better in MATH 514 or STAT 522.

Cross-listed course: STAT 523

MATH 520 - Ordinary Differential Equations (3 Credits)
Differential equations of the first order, linear systems of ordinary differential equations, elementary qualitative properties of nonlinear systems.
Prerequisites: C or better in MATH 344 or MATH 544.

MATH 521 - Boundary Value Problems and Partial Differential Equations (3 Credits)
Laplace transforms, two-point boundary value problems and Green's functions, boundary value problems in partial differential equations, eigenfunction expansions and separation of variables, transform methods for solving PDE's, Green's functions for PDE's, and the method of characteristics.
Prerequisites: C or better in MATH 520 or in both MATH 241 and MATH 242.

MATH 522 - Wavelets (3 Credits)
Basic principles and methods of Fourier transforms, wavelets, and multiresolution analysis; applications to differential equations, data compression, and signal and image processing; development of numerical algorithms. Computer implementation.
Prerequisites: C or better in MATH 344 or MATH 544.

MATH 523 - Mathematical Modeling of Population Biology (3 Credits)
Applications of differential and difference equations and linear algebra modeling the dynamics of populations, with emphasis on stability and oscillation. Critical analysis of current publications with computer simulation of models.
Prerequisites: C or better in MATH 142, BIOL 301, or MSCI 311 recommended.
MATH 524 - Nonlinear Optimization (3 Credits)
Descent methods, conjugate direction methods, and Quasi-Newton algorithms for unconstrained optimization; globally convergent hybrid algorithm; primal, penalty, and barrier methods for constrained optimization. Computer implementation of algorithms.
Prerequisites: C or better in MATH 241 and one of MATH 344 or MATH 544.

MATH 525 - Mathematical Game Theory (3 Credits)
Two-person zero-sum games, minimax theorem, utility theory, n-person games, market games, stability.
Prerequisites: C or better in MATH 544 or in both MATH 300 and MATH 344.

MATH 526 - Numerical Linear Algebra (4 Credits)
Matrix algebra, Gauss elimination, iterative methods; overdetermined systems and least squares; eigenvalues, eigenvectors; numerical software. Computer implementation. Credit may not be received for both MATH 526 and MATH 544. Three lectures and one laboratory hour per week.
Prerequisites: C or better in MATH 142.

MATH 527 - Numerical Analysis (3 Credits)
Interpolation and approximation of functions; solution of algebraic equations; numerical differentiation and integration; numerical solutions of ordinary differential equations and boundary value problems; computer implementation of algorithms.
Prerequisites: C or better in MATH 520 or in both MATH 242 and MATH 344.

Cross-listed course: CSCE 561

MATH 528 - Mathematical Foundation of Data Science and Machine Learning (3 Credits)
Unconstrained and constrained optimization, gradient descent methods for numerical optimization, supervised and unsupervised learning, various reduced order methods, sampling and inference, Monte Carlo methods, deep neural networks.
Prerequisites: C or better in MATH 344 or MATH 544.

MATH 531 - Foundations of Geometry (3 Credits)
The study of geometry as a logical system based upon postulates and undefined terms. The fundamental concepts and relations of Euclidean geometry developed rigorously on the basis of a set of postulates. Some topics from non-Euclidean geometry.
Prerequisites: C or better in MATH 300.

MATH 532 - Modern Geometry (3 Credits)
Projective geometry, theorem of Desargues, conics, transformation theory, affine geometry, Euclidean geometry, non-Euclidean geometries, and topology.
Prerequisites: C or better in MATH 300.

MATH 533 - Elementary Geometric Topology (3 Credits)
Topology of the line, plane, and space, Jordan curve theorem, Brouwer fixed point theorem, Euler characteristic of polyhedra, orientable and non-orientable surfaces, classification of surfaces, network topology.
Prerequisites: C or better in MATH 241 and MATH 300.

MATH 534 - Elements of General Topology (3 Credits)
Elementary properties of sets, functions, spaces, maps, separation axioms, compactness, completeness, convergence, connectedness, path connectedness, embedding and extension theorems, metric spaces, and compactification.
Prerequisites: C or better in MATH 241 and MATH 300.

MATH 540 - Modern Applied Algebra (3 Credits)
Finite structures useful in applied areas. Binary relations, Boolean algebras, applications to optimization, and realization of finite state machines.
Prerequisites: MATH 300.

MATH 541 - Algebraic Coding Theory (3 Credits)
Error-correcting codes, polynomial rings, cyclic codes, finite fields, BCH codes.
Prerequisites: C or better in MATH 544 or in both MATH 300 and MATH 344.

MATH 544 - Linear Algebra (3 Credits)
Vectors, vector spaces, and subspaces; geometry of finite dimensional Euclidean space; linear transformations; eigenvalues and eigenvectors; diagonalization. Throughout there will be an emphasis on theoretical concepts, logic, and methods. MATH 544L is an optional laboratory course where additional applications will be discussed.
Prerequisites: C or better in MATH 241 and MATH 300.

MATH 544L - Linear Algebra Lab (1 Credit)
Computer-based applications of linear algebra for mathematics students. Topics include numerical analysis of matrices, direct and indirect methods for solving linear systems, and least squares method (regression). Typical applications include theoretical and practical issues related to discrete Markov processes, image compression, and linear programming. Credit not allowed for both MATH 344L and 544L.
Prerequisite or Corequisite: C or better or concurrent enrollment in MATH 544.

MATH 546 - Algebraic Structures I (3 Credits)
Permutation groups; abstract groups; introduction to algebraic structures through study of subgroups, quotient groups, homomorphisms, isomorphisms, direct product; decompositions; introduction to rings and fields.
Prerequisites: C or better in MATH 544.

MATH 547 - Algebraic Structures II (3 Credits)
Rings, ideals, polynomial rings, unique factorization domains; structure of finite groups; topics from: fields, field extensions, Euclidean constructions, modules over principal ideal domains (canonical forms).
Prerequisites: C or better in MATH 546.

MATH 548 - Geometry, Algebra, and Algorithms (3 Credits)
Polynomials and affine space, Grobner bases, elimination theory, varieties, and computer algebra systems.
Prerequisites: C or better in MATH 300 and in one of MATH 344 or MATH 544.

MATH 550 - Vector Analysis (3 Credits)
Vector fields, line and path integrals, orientation and parametrization of lines and surfaces, change of variables and Jacobians, oriented surface integrals, theorems of Green, Gauss, and Stokes; introduction to tensor analysis.
Prerequisites: C or better in MATH 241.
MATH 551 - Introduction to Differential Geometry (3 Credits)
Parametrized curves, regular curves and surfaces, change of parameters, tangent planes, the differential of a map, the Gauss map, first and second fundamental forms, vector fields, geodesics, and the exponential map.
Prerequisites: C or better in MATH 241 and MATH 300.

MATH 552 - Applied Complex Variables (3 Credits)
Complex integration, calculus of residues, conformal mapping, Taylor and Laurent Series expansions, applications.
Prerequisites: C or better in MATH 241.

MATH 554 - Analysis I (3 Credits)
Least upper bound axiom, the real numbers, compactness, sequences, continuity, uniform continuity, differentiation, Riemann integral and fundamental theorem of calculus.
Prerequisites: C or better in MATH 300 and either at least one of MATH 511, MATH 520, MATH 534, MATH 550, or MATH 552.

MATH 555 - Analysis II (3 Credits)
Riemann-Stieljes integral, infinite series, sequences and series of functions, uniform convergence, Weierstrass approximation theorem, selected topics from Fourier series or Lebesgue integration.
Prerequisites: C or better in MATH 554.

MATH 561 - Introduction to Mathematical Logic (3 Credits)
Syntax and semantics of formal languages; sentential logic, proofs in first order logic; Godel's completeness theorem; compactness theorem and applications; cardinals and ordinals; the Lowenheim-Skolem-Tarski theorem; Beth's definability theorem; effectively computable functions; Godel's incompleteness theorem; undecidable theories.
Prerequisites: C or better in MATH 300.

MATH 562 - Theory of Computation (3 Credits)
Basic theoretical principles of computing as modeled by formal languages and automata; computability and computational complexity.
Prerequisites: C or better in CSCE 350 or MATH 300.

Cross-listed course: CSCE 551

MATH 570 - Discrete Optimization (3 Credits)
Discrete mathematical models. Applications to such problems as resource allocation and transportation. Topics include linear programming, integer programming, network analysis, and dynamic programming.
Prerequisites: C or better in MATH 300 and in one of MATH 544 or MATH 344.

MATH 572 - Mathematical Foundation of Network Science (3 Credits)
Graphs and probability, Web graphs, random graphs, models for complex graphs, graph searching algorithms, eigenvalues, PageRank.
Prerequisites: C or better in MATH 374 and in one of MATH 344 or MATH 544.

MATH 574 - Discrete Mathematics I (3 Credits)
Mathematical models; mathematical reasoning; enumeration; induction and recursion; tree structures; networks and graphs; analysis of algorithms.
Prerequisites: C or better in MATH 300.

MATH 575 - Discrete Mathematics II (3 Credits)
A continuation of MATH 574. Inversion formulas; Polya counting; combinatorial designs; minimax theorems; probabilistic methods; Ramsey theory; other topics.
Prerequisites: C or better in MATH 574.

MATH 576 - Combinatorial Game Theory (3 Credits)
Winning in certain combinatorial games such as Nim, Hackenbush, and Domineering. Equalities and inequalities among games, Sprague-Grundy theory of impartial games, games which are numbers.
Prerequisites: C or better in MATH 300 or MATH 374.

MATH 580 - Elementary Number Theory (3 Credits)
Divisibility, primes, congruences, quadratic residues, numerical functions. Diophantine equations.
Prerequisites: C or better in MATH 300.

MATH 587 - Introduction to Cryptography (3 Credits)
Design of secret codes for secure communication, including encryption and integrity verification: ciphers, cryptographic hashing, and public key cryptosystems such as RSA. Mathematical principles underlying encryption. Code-breaking techniques. Cryptographic protocols.
Prerequisites: C or better in CSCE 145 or MATH 241, and at least one of CSCE 355, MATH 300, or MATH 374.

Cross-listed course: CSCE 557

MATH 590 - Undergraduate Seminar (1-3 Credits)
A review of literature in specific subject areas involving student presentations. Content varies and will be announced in the Master Schedule of Classes by title. For undergraduate credit only.

MATH 599 - Topics in Mathematics (1-3 Credits)
Recent developments in pure and applied mathematics selected to meet current faculty and student interest.

MATH 602 - An Inductive Approach to Geometry (3 Credits)
This course is designed for middle-level pre-service mathematics teachers. This course covers geometric reasoning, Euclidean geometry, congruence, area, volume, similarity, symmetry, vectors, and transformations. Dynamic software will be utilized to explore geometry concepts. This course cannot be used for credit toward a major in mathematics.
Prerequisites: C or better in MATH 122 or MATH 141 or equivalent.

MATH 603 - Inquiry Approach to Algebra (3 Credits)
This course introduces basic concepts in number theory and modern algebra that provide the foundation for middle level arithmetic and algebra. Topics include: algebraic reasoning, patterns, inductive reasoning, deductive reasoning, arithmetic and algebra of integers, algebraic systems, algebraic modeling, and axiomatic mathematics. This course cannot be used for credit towards a major in mathematics.
Prerequisites: C or higher in MATH 122 or MATH 141 or equivalent.

MATH 650 - AP Calculus for Teachers (3 Credits)
A thorough study of the topics to be presented in AP calculus, including limits of functions, differentiation, integration, infinite series, and applications. Not intended for degree programs in mathematics.
Prerequisites: current secondary high school teacher certification in mathematics and a C or better in at least 6 hours of calculus.

Actuarial Mathematics and Statistics Minor

Minor Requirements (18 Hours)
Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 141</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
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</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
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</table>

Total Credit Hours 11

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 511</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>STAT 512</td>
<td>Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 513</td>
<td>Theory of Statistical Inference</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following: 9

- MATH 344 Applied Linear Algebra
- or MATH 544 Linear Algebra
- MATH 514 Financial Mathematics I
- or STAT 522 Financial Mathematics I
- MATH 515 Financial Mathematics II
- or STAT 523 Financial Mathematics II
- MATH 520 Ordinary Differential Equations
- MATH 524 Nonlinear Optimization
- MATH 570 Discrete Optimization
- MATH 574 Discrete Mathematics I
- STAT 520 Forecasting and Time Series
- STAT 521 Applied Stochastic Processes
- STAT 587 Big Data Analytics
- or CSCE 587 Big Data Analytics

Total Credit Hours 18

Note: Only one of MATH 344/MATH 544 may be counted for the minor.

Mathematical Biology Minor

Minor Requirements (22 Hours)

Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Math Prerequisites:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Science Prerequisites: 8

Select two of the following:

- BIOL 101 Biological Principles I
- BIOL 101L Biological Principles I Laboratory
- BIOL 102 Biological Principles II
- BIOL 102L Biological Principles II Laboratory
- MSCI 101 The Ocean Environment
- MSCI 102 The Living Ocean

Other Requirements: 3

Select one of the following:

- BIOL 301 Ecology and Evolution
- BIOL 303 Fundamental Genetics
- MSCI 314 Physical Oceanography

Total Credit Hours 22

Courses for the Minor (19 Hours)

Minor courses cannot be counted toward student's major

Linear Algebra (4 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 344</td>
<td>Applied Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 544</td>
<td>Linear Algebra Lab</td>
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Total Credit Hours 4

Differential Equations (6 Hours)

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<th>Course</th>
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<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
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<tr>
<td>MATH 520</td>
<td>Ordinary Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 521</td>
<td>Boundary Value Problems and Partial Differential Equations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Additional Courses (9 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 520</td>
<td>Ordinary Differential Equations ((if not selected above))</td>
<td></td>
</tr>
<tr>
<td>MATH 521</td>
<td>Boundary Value Problems and Partial Differential Equations ((if not selected above))</td>
<td></td>
</tr>
<tr>
<td>BIOL 552</td>
<td>Population Genetics</td>
<td></td>
</tr>
<tr>
<td>or MSCI 552</td>
<td>Population Genetics</td>
<td></td>
</tr>
<tr>
<td>BIOL 652</td>
<td>Evolutionary Biology</td>
<td></td>
</tr>
<tr>
<td>BMEN 212</td>
<td>Fundamentals of Biomedical Systems</td>
<td></td>
</tr>
<tr>
<td>BMEN 240</td>
<td>Cellular and Molecular Biology with Engineering Applications</td>
<td></td>
</tr>
<tr>
<td>BMEN 263</td>
<td>Introduction to Biomechanics</td>
<td></td>
</tr>
<tr>
<td>BMEN 290</td>
<td>Thermodynamics of Biomolecular Systems</td>
<td></td>
</tr>
<tr>
<td>BMEN 391</td>
<td>Kinetics in Biomolecular Systems</td>
<td></td>
</tr>
<tr>
<td>MATH 523</td>
<td>Mathematical Modeling of Population Biology</td>
<td></td>
</tr>
<tr>
<td>MSCI 582</td>
<td>Marine Hydrodynamics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 9
Graduates with a B.S. in Mathematics will demonstrate understanding of logic, set theory, functions, and fundamental methods of mathematical proof.

Graduates with a B.S. in Mathematics will demonstrate mastery of the fundamental theoretical concepts of linear algebra.

Graduates with a B.S. in Mathematics will be able to solve problems in linear algebra using standard computational algorithms.

Graduates with a B.S. in Mathematics will demonstrate mastery of the fundamental concepts and methods of proof in abstract algebra.

Graduates with a B.S. in Mathematics will, if they wish to pursue studies at the graduate level, be prepared with the necessary analytical skills, openness to new ideas, and positive attitudes (patience, persistence, and enthusiasm) for success. Those going on to employment will have the analytical skills that they need, an ability to learn new ones, and habits of mind that are conducive to productive and rewarding work. Graduates will be aware that mathematics is often a collaborative activity, and that careful reading and clear writing are as important as computational skills. They will know that mathematics is continually growing as research answers old questions and brings forth new ones. Finally, they will find joy in learning, doing, and communicating mathematics to others.
1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.

2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

**Degree Requirements (120 hours)**

**Program of Study**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>College Requirements</td>
<td>15-19</td>
</tr>
<tr>
<td>Program Requirements</td>
<td>31-47</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>24</td>
</tr>
</tbody>
</table>

**Carolina Core Requirements (34-46 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

* must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

**ARP – Analytical Reasoning and Problem Solving (6-8 hours)**

* must be passed with a grade of C or higher

- MATH 141
- MATH 142

**SCI – Scientific Literacy (8 hours)**

- Two 4-credit hour CC-SCI courses (p. 743)

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required for all baccalaureate degrees. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

- any CC-GHS course (p. 743)

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- any CC-GSS course (p. 743)

**AIU – Aesthetic and Interpretive Understanding (3 hours)**

- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)**

- any overlay or stand-alone CC-CMS course (p. 743)

**INF – Information Literacy 1 (0-3 hours)**

- any overlay or stand-alone CC-INF course (p. 743)

**VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)**

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

**College Requirements (15-19 hours)**

**Foreign Language (0-3 hours)**

- only if needed to meet 122-level proficiency

**Analytical Reasoning (6-7 hours)**

* Must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 145 or CSCE 206</td>
<td>Algorithmic Design I or Scientific Applications Programming</td>
<td>4</td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>STAT 512</td>
<td>Mathematical Statistics</td>
<td></td>
</tr>
<tr>
<td>STAT 515</td>
<td>Statistical Methods I</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 7

**History (3 hours)**

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or
• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
• Three hours of Social Science
• Three hours of Fine Arts or Humanities

Program Requirements (31-47 hours)
Supporting Courses (6 hours)
Must be passed with a grade of C or higher.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 300</td>
<td>Transition to Advanced Mathematics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (7-29 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Major Requirements (24 hours)
A minimum grade of C is required in all major courses.

Major Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 544</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 546</td>
<td>Algebraic Structures I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 554</td>
<td>Analysis I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Major Electives (15 hours)
At least one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 511</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>MATH 520</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 534</td>
<td>Elements of General Topology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 550</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 552</td>
<td>Applied Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>At least 12 hours of MATH electives numbered 500-599. The choice of the four MATH electives should be made to support the student's educational goals and career objectives. The courses listed below are available for MATH elective credit. (As MATH 544, MATH 546, and MATH 554 are required of all majors, these are not listed.) Undergraduate students interested in taking 700-level MATH courses as elective credit should consult the Graduate Bulletin.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 540</td>
<td>Modern Applied Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 541</td>
<td>Algebraic Coding Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 547</td>
<td>Algebraic Structures II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 548</td>
<td>Geometry, Algebra, and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 511</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>MATH 550</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 551</td>
<td>Introduction to Differential Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 552</td>
<td>Applied Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>MATH 555</td>
<td>Analysis II</td>
<td>3</td>
</tr>
</tbody>
</table>
Complete at least one of the two-semester sequences in algebra or analysis:

- MATH 546 & 547: Algebraic Structures I and Algebraic Structures II (6 credits)
- MATH 554 & 555: Analysis I and Analysis II (6 credits)

Note: Completing both two-semester sequences provides the strongest foundation for graduate study in mathematics. Students completing this combination of courses are well on their way towards completing the B.S. with Distinction in Mathematics.

For Students Considering Graduate Studies in Mathematics

Guidelines for Selecting 500-level MATH Electives

For Students Considering Graduate Studies in Mathematics

Complete the following sequence of courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 531</td>
<td>Foundations of Geometry</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 532</td>
<td>Modern Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 574</td>
<td>Discrete Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 580</td>
<td>Elementary Number Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

As a cognate:

- EDFI 300: Schools in Communities (3 credits)
- EDSE 500: Equity and Community Engagement (3 credits)
- EDSE 502: Teachers and Teaching (3 credits)

Total Credit Hours: 21

Note: Completing both two-semester sequences provides the strongest foundation for graduate study in mathematics. Students completing this combination of courses are well on their way towards completing the B.S. with Distinction in Mathematics.

For Students Considering Careers Teaching at the Secondary Level (Grades 9-12)

Declare a Risk Management and Insurance Minor

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<tbody>
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<td>MATH 511</td>
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<td>3</td>
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Total Credit Hours: 12

To develop a strong basis for success in the initial actuarial examinations (Exam P and Exam FM), and to qualify for the Society of Actuaries' Validation through Educational Experience (VEE) in Applied Statistics, Economics, and Corporate Finance, students should complete the following collection of 30 semester hours in the Department of Statistics and the Darla Moore School of Business. For detailed information about the VEE program, see http://soa.org.

For Students Considering Careers in Actuarial Science

For Students Considering Careers in Actuarial Science

Complete the following sequence of courses:

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</tr>
<tr>
<td>MATH 524</td>
<td>Nonlinear Optimization</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 570</td>
<td>Discrete Optimization</td>
<td></td>
</tr>
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For Students Considering Careers in Actuarial Science

For Students Considering Careers in Actuarial Science

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For Students Considering Careers in Actuarial Science

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**Mathematics, B.S.**

**Philosophy**

Department Website (http://www.cas.sc.edu/phil/)

Christopher Tollefsen, Chair

The Department of Philosophy offers the Bachelor of Arts degree program with a major in philosophy.

**Programs**

- Philosophy Minor (p. 179)
- Philosophy, B.A. (p. 179)
Courses

PHIL 101 - Special Topics in Philosophy (3 Credits)
Topics selected by the instructor for specialized study. Course content varies and will be announced in the schedule of classes by title.

PHIL 102 - Introduction to Philosophy (3 Credits)
An introduction to the main problems of philosophy and its methods of inquiry, analysis, and criticism. Works of important philosophers will be read. Honors section offered.

PHIL 103 - Special Topics in Ethics and Values (3 Credits)
A study of the moral principles of conduct and the basic concepts underlying these principles, such as good, evil, right, wrong, justice, value, duty, and obligation, as they relate to specific issues or areas of life. May be repeated as content varies by title.

Carolina Core: VSR

PHIL 111 - Introduction to Logic II (3 Credits)
Philosophical foundations of inductive inference, including probability, statistics, and decision theory; application of the methods and results of inductive inference to philosophical problems such as the problem of rationality, epistemology, theory confirmation, social and political philosophy.
Prerequisites: At least one of the following: PSYC 227; SOCY 220; STAT 110, STAT 112, STAT 201, STAT 205, or STAT 206; MGSC 291.

Carolina Core: ARP

PHIL 114 - Introduction to Formal Logic I (3 Credits)
Formal logic, including foundational logical concepts, syntax and semantics of first-order logic; derivations; applications.

Carolina Core: ARP

PHIL 115 - Introduction to Formal Logic II (3 Credits)
Intermediate topics in predicate logic, including second-order predicate logic; meta-theory, including soundness and completeness; introduction to non-classical logic
Prerequisites: C or higher in PHIL114 or PHIL 110, or a department-approved equivalent.

Carolina Core: ARP

PHIL 210 - Philosophical Themes in Literature (3 Credits)
Selected philosophical problems as they are presented in imaginative and theoretical literature. Works of fiction and philosophical treatments of issues involved in them will be read and discussed.

PHIL 211 - Contemporary Moral Issues (3 Credits)
Moral issues confronting men and women in contemporary society. Topics will vary but may include discussion of problems related to abortion, drugs, euthanasia, war, social engineering, and punishment of criminals.

Carolina Core: VSR

Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 212 - Images of the Human Person (3 Credits)
Images of the human person in contemporary philosophy, literature, psychology, and religion, and an evaluation of these images as norms for human conduct and social policy. Particular attention may be given to images found in specific philosophical traditions, including existentialism, Marxism, behaviorism, and mysticism.

PHIL 213 - Communicating Moral Issues (3 Credits)
Moral issues confronting men and women in contemporary society and the challenges of communicating effectively about them. Topics will vary but may include access to health care, euthanasia, abortion, same sex marriage and the moral and environmental consequences of eating animals.
Cross-listed course: SPCH 213
Carolina Core: CMS, VSR

PHIL 214 - Science and Pseudo-Science (3 Credits)
Attempts to distinguish science from pseudo-science; inquiry into such cases as astrology, psychoanalysis, and parapsychology.

Graduation with Leadership Distinction: GLD: Research

PHIL 301 - Ancient Philosophy (3 Credits)
An introduction to the work of ancient philosophers, with special emphasis on Plato and Aristotle.
Cross-listed course: CLAS 301

PHIL 302 - Greek and Roman Philosophy after Aristotle (3 Credits)
Problems such as hedonism, providence, belief and evidence, and mysticism, as they appear in the writings of Epicureans, Stoics, Sceptics, and Plotinus.
Cross-listed course: CLAS 302

PHIL 303 - History of Medieval Philosophy (3 Credits)
Major philosophical traditions in the Middle Ages.

PHIL 304 - Seventeenth and Eighteenth-Century Philosophy (3 Credits)
An introduction to Continental and British philosophy running roughly from Descartes through Kant.

PHIL 305 - Nineteenth and Twentieth-Century Philosophy (3 Credits)
An introduction to Continental and British philosophy since Kant through study of the works of representative philosophers. Particular emphasis is placed on the development of Idealism, Marxism, Existentialism and Phenomenology, and analytic philosophy.

PHIL 310 - American Philosophy (3 Credits)
The principal movements of philosophical thought from Colonial times to the present, with special emphasis on the 19th and 20th centuries.

PHIL 311 - Existentialism (3 Credits)
An introduction to existentialist themes in contemporary philosophy, literature, psychology, and religion. The writings of existentialists such as Kierkegaard, Nietzsche, Camus, Sartre, Buber, May, and Binswanger will be read and discussed.

PHIL 312 - Classical Origins of Western Medical Ethics (3 Credits)
Examination of ancient Greek and Roman philosophical, medical, and literary works (in English) as sources for the origins of medical ethics. Priority enrollment for Medical Humanities students.
Cross-listed course: CLAS 360

PHIL 313 - Between Magic and Method: Ancient Medicine (3 Credits)
Introduction to ancient medicine: science and art, theory and practice, healing and predicting. Topics include: Medicine before Hippocrates, Hippocratic medicine, holism, naturalism, medicine, religion and magic, medicine and scientific explanation, Hellenistic medicine and methodology, Galenic medicine.
Cross-listed course: CLAS 361

PHIL 315 - Asian Religious Philosophy (3 Credits)
A historical overview and critical introduction to the philosophical practices of Asian religions; an examination of the basic worldviews, thought frameworks, and foundational questions of the main schools of premodern Asian religious philosophy.
Cross-listed course: RELG 334
PHIL 320 - Ethics (3 Credits)
A study of the moral principles of conduct and the basic concepts underlying these principles, such as good, evil, right, wrong, justice, value, duty, and obligation. The ethical works of influential philosophers are analyzed in terms of these concepts.
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 321 - Medical Ethics (3 Credits)
The concepts of Person and Justice as they relate to biomedical sciences and technologies.
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 322 - Environmental Ethics (3 Credits)
Examination of principles and arguments surrounding moral issues involving the environment.
Cross-listed course: ENV 322
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 323 - Ethics of Science and Technology (3 Credits)
Role of ethical judgments in directing or curtailting scientific research; case studies from natural and social sciences.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 324 - Business Ethics (3 Credits)
Ethical problems in business; application to business situations of philosophical theories of individual, corporate, and governmental rights and responsibilities.
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PHIL 325 - Engineering Ethics (3 Credits)
An investigation of ethical issues in engineering and engineering-related technology. Topics include whistleblowing, employee/employer relations, environmental issues, issues related to advances in information technology, and privacy.
Carolina Core: CMS, VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 329 - Law and Religion (3 Credits)
An examination and critical assessment of the philosophical concepts, issues, and questions surrounding the relationship of church and state.

PHIL 330 - Social and Political Philosophy (3 Credits)
An overview of major themes in political philosophy such as the nature of politics, obligation, community, representation, freedom, equality, and justice.
Cross-listed course: POLI 300
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PHIL 331 - Crime and Justice (3 Credits)
The fundamental concepts of a criminal justice system and their philosophical bases. Rights, privacy, responsibility, and the problem of justification of state control of private behavior through punishment and therapy.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 332 - Philosophy of Education (3 Credits)
A critical examination of the theories of education of such philosophers as Plato, Rousseau, Dewey, Newman, and Whitehead. Emphasis is on the development of a philosophy of higher education.

PHIL 333 - Contemporary Marxism and Society (3 Credits)
Recent Marxist-inspired critics of politics, science, technology, art, advertising, and other aspects of cultural life, with comparison both to Marx's philosophical and economic writings and to other types of contemporary criticisms.

PHIL 334 - Feminist Philosophy (3 Credits)
Introduces feminist philosophy and applications to philosophical problems.
Cross-listed course: WSST 334
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 335 - Disobedience, Dissent, and Revolution (3 Credits)
This course explores central philosophical issues related to resisting and opposing claimed state authority. Focus will be on classic and modern texts regarding the intentional, ethically-, or politically-motivated violation of law and on the justification of revolution.
Carolina Core: VSR

PHIL 340 - Philosophy of Art (3 Credits)
Philosophical problems relating to the arts, with emphasis on questions pertaining to aesthetic experience.

PHIL 341 - Philosophy and Film (3 Credits)
Selected philosophical problems as they are presented in feature and documentary films.

PHIL 350 - Knowledge and Reality (3 Credits)
Examination of skeptical attacks, critical defenses, and philosophical theories of what we know and what is to be taken as ultimate reality.

PHIL 351 - Mind and Nature (3 Credits)
Philosophical theories about the nature of consciousness, the problem of qualia, phenomenal concepts, the explanatory gap hypothesis, higher-order consciousness, prospects for naturalistic accounts of consciousness.

PHIL 352 - Freedom and Human Action (3 Credits)
The principal movements of philosophical thought from Colonial times to the present, with special emphasis on the 19th and 20th centuries.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 360 - History and Philosophy of Science (3 Credits)
History and philosophy of science and their interaction from ancient Greece to the present. Emphasis on physics, astronomy, and chemistry.

PHIL 362 - Philosophy of Research Design in Science and Medicine (3 Credits)
A philosophical investigation of research methods used in science and medicine from systematic reviewing and randomized controlled trials to theories of sampling and causal inference.
PHIL 365 - Formal Theories of Rationality and Their Philosophical Implications (3 Credits)
Formal theories of rationality in the context of decision-making and games; uses of these formal theories to address traditional philosophical issues such as rationality, knowledge, choice, social welfare, cooperation, and communication.
Prerequisites: C or higher in any course that satisfies the ARP Carolina Core requirement.

PHIL 370 - Special Topics in Philosophy (3 Credits)
Topics selected by the instructor for specialized study. Course content varies and will be announced in the schedule of classes by title.

PHIL 390 - Junior Seminar in Philosophy (3 Credits)
Overview of philosophical theories and debates with attention to skills in discussion and presentation and in preparing and writing a research paper in philosophy. Topics selected by the instructor.
Graduation with Leadership Distinction: GLD: Research

PHIL 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

PHIL 473 - Film Theory (3 Credits)
Theory and criticism of film and media from the 1910s to the present. Considers a range of critical approaches to analyzing what different forms of audio-visual media do to and for the audiences they address and the worlds they depict.
Prerequisites: FILM 240.

PHIL 490 - Senior Seminar in Philosophy (3 Credits)
Review of central topics in philosophy serving as a capstone course for senior majors in philosophy.
Graduation with Leadership Distinction: GLD: Research
Experiential Learning: Experiential Learning Opportunity

PHIL 495 - Senior Thesis (3 Credits)
Directed research resulting in a written thesis. Senior philosophy major or double major, GPA of 3.30, permission of faculty member.
Graduation with Leadership Distinction: GLD: Research

PHIL 501 - British Empiricism (3 Credits)
A historical and critical survey of the British philosophers of experience. Principal concentration is on Locke, Berkeley, and Hume.
Prerequisites: C or better in PHIL 304.

PHIL 502 - Continental Rationalism (3 Credits)
A critical and historical study of the 17th-century European philosophers. The works of Descartes, Spinoza, and Leibniz are emphasized.
Prerequisites: C or better in PHIL 304.

PHIL 503 - Analytic Philosophy (3 Credits)
A critical study of recent and contemporary works in philosophical analysis, and an evaluation of the purposes, methods, and results of this movement.
Prerequisites: C or better on 3 hours in philosophy beyond the 100 level.

PHIL 504 - Phenomenology and Existentialism (3 Credits)
A critical study of some fundamental themes in phenomenology and the philosophy of existence. Emphasis is placed on an intensive study of selected works of such writers as Kierkegaard, Jaspers, Husserl, and Heidegger.
Prerequisites: C or better in PHIL 304 or PHIL 305.

PHIL 505 - Plato (3 Credits)
An intensive study of selected Dialogues by Plato.
Prerequisites: C or better in PHIL 301.

PHIL 506 - Aristotle (3 Credits)
An intensive study of some of the more important of Aristotle’s works.
Prerequisites: C or better in PHIL 301.

PHIL 507 - Medieval Philosophy (3 Credits)
A historical and critical study of the works of the leading medieval philosophers.
Prerequisites: C or better in PHIL 303.

PHIL 508 - Hume (3 Credits)
An intensive study of the philosophical writings of Hume, especially A Treatise of Human Nature.
Prerequisites: C or better in PHIL 304.

PHIL 509 - Kant (3 Credits)
An intensive study of the work of Kant, especially the Critique of Pure Reason.
Prerequisites: C or better in PHIL 304.

PHIL 510 - Theory of Knowledge (3 Credits)
An examination of some representative theories of truth, meaning, probability, and perception.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 511 - Symbolic Logic (3 Credits)
A presentation and philosophical examination of the fundamentals of modern symbolic logic.
Prerequisites: C or better in PHIL 115.

PHIL 512 - Philosophy of Science (3 Credits)
A critical examination of methods and concepts of the sciences. Topics include scientific revolutions, the unity of science, experimentation, explanation, and evidence.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 513 - Philosophy of History (3 Credits)
A philosophical examination of historical inquiry. Theories of historical development. The logical problems of historical explanation.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 514 - Ethical Theory (3 Credits)
Survey of recent and historical developments in ethical theory with special emphasis on the meaning of ethical language and the forms of reasoning employed in discussing moral values.
Prerequisites: C or better in PHIL 320.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PHIL 515 - Philosophy of Religion (3 Credits)
A critical study of selected problems in the philosophy of religion. Emphasis is placed on problems relating to the existence of God, religious knowledge, and the language of religion.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 516 - Advanced Aesthetics (3 Credits)
Detailed examination of the literature on aesthetics.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.
PHIL 517 - Philosophy of Language (3 Credits)
An examination of concepts and problems such as meaning, reference, analyticity, definition, and the relation between logic and philosophy.
Prerequisites: C or higher in PHIL 114 or PHIL 511.

Cross-listed course: LING 565

PHIL 518 - Philosophy of the Social Sciences (3 Credits)
The goals of inquiry and problems such as objectivity, reductionism, cases of freedom, and value
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 519 - Metaphysics (3 Credits)
Topics include the ideas of first philosophy, being, substance, the problem of universals, essentialism, causation, and metaphysics.
Prerequisites: C or better in PHIL 350 or PHIL 351 or PHIL 360.

PHIL 520 - Philosophy of Mind (3 Credits)
The concept of mind, the mind-body problem, emotions and cognition, the possibility of artificial minds, theories of embodied cognition.
Prerequisites: C or better in PHIL 350 or PHIL 351 or PHIL 360.

PHIL 521 - Mathematical Logic (3 Credits)
Axiomatic development of logic and the set-theoretic foundations of mathematics.
Prerequisites: C or better in PHIL 511.

PHIL 522 - Introduction to Semantics (3 Credits)
Introduction to the study of linguistic meaning, including the following topics: meaning, reference, and truth; the connections among language, thought, and reality; word meaning and sentence meaning; possible worlds and modality; thematic roles; meaning and context; presupposition and implicature; speech acts; formal semantics; and cognitive semantics.
Prerequisites: C or better in any of LING 300, LING 301, LING 600, PHIL 114, PHIL 511.

PHIL 523 - Advanced Topics in Logic (3 Credits)
Philosophical problems about logic, the development of philosophical logic, and the problems surrounding them.
Prerequisites: C or better in PHIL 511.

PHIL 524 - Philosophy of Biology (3 Credits)
Examination of major conceptual, theoretical, and methodological issues in biological science. Topics include reductionism, units of selection, adaptationism, relations between evolutionary and developmental biology, and between biology and society.
Prerequisites: C or better in 3 hours of Philosophy beyond the 100 level.

PHIL 525 - Hellenistic Philosophy (3 Credits)
Survey of the major schools and trends in Hellenistic philosophy. Epicureans, Stoics, Academic Skeptics. Topics include eudaimonism, hedonism, monism, teleology, and the criterion of truth.
Prerequisites: C or better in PHIL 301 or PHIL 302.

PHIL 527 - Virtues, Acts, and Consequences (3 Credits)
Recent contributions to three central strands of ethical theory: virtue theory, deontology, and utilitarianism; historical roots and recent developments.
Prerequisites: C or better in PHIL 320.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PHIL 528 - Concepts of Evidence (3 Credits)
Systematic approaches to data analysis—Bayesian, Fisherian and decision theoretic—will be critically appraised. Applications of these theories to some problems of inductive logic: the paradoxes of confirmation, the role of simplicity, and the probability of inductive generalizations.
Prerequisites: C or better in PHIL 350 or PHIL 351 or PHIL 360.

PHIL 532 - Social Justice (3 Credits)
Recent theories of distributive justice and their application to such issues as redistribution of wealth, reverse discrimination, and the conflict between liberty and equality. Authors include Rawls, Nozick, Hayek, and Popper.
Prerequisites: C or better in PHIL 320 or PHIL 321 or PHIL 322 or PHIL 330 or PHIL 331.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Global Learning

PHIL 534 - Contemporary European Social Philosophy (3 Credits)
An examination of European social philosophy associated with either the Frankfurt School of Social Research or contemporary French Poststructuralism.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 535 - Ecofeminism (3 Credits)
An exploration of the connections between oppression of women and oppression of nature.
Prerequisites: 3 hours in philosophy beyond the 100 level.

Cross-listed course: WGST 535

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 536 - Language and Interpretation in Contemporary European Philosophy (3 Credits)
Selected contemporary European philosophical movements, their views on language, and their approach to interpretation: hermeneutics, structuralism, poststructuralism.
Prerequisites: C or better in PHIL 114.

PHIL 540 - Renaissance Philosophy (3 Credits)
Humanism (e.g., Petrarca), Platonism (e.g., Pico and Ficino). Aristotelianism (e.g., Pomponazzi), philosophies of nature (e.g., Telesio, Campanella, and Bruno), and Nicholas of Cusa, Erasmus, Montaigne, and Suarez.
Prerequisites: C or better in PHIL 301 or PHIL 302 or PHIL 303.

PHIL 550 - Health Care Ethics (3 Credits)
An exploration of the ethical dimensions of patient care in the clinical setting.
Prerequisites: C or better in PHIL 320 or PHIL 321 or PHIL 322 or PHIL 330 or PHIL 331.

PHIL 598 - Readings in Philosophy (3 Credits)
Prerequisite: 6 hours in philosophy beyond the 100 level.
Philosophy Minor

Minor Requirements

Prerequisite Course (3 Hours)

• PHIL 114 (May be used to satisfy a portion of the General Education Requirement)

Required Courses (18 Hours)

Eighteen hours of courses at the 200-level or above.

The six courses composing the minor should, to the greatest extent possible, have some common theme. For instance, it is possible for students to choose courses emphasizing the following general areas in philosophy:

• History of Philosophy
• Ethics, Aesthetics and Value Theory (including social and political philosophy)
• Logic, Epistemology, and Metaphysics (including the philosophy of science)

Students in the College of Arts and Sciences, Liberal Arts division should be aware of the fact that they need to take an additional course in philosophy (other than the courses that are being used for the Philosophy minor or PHIL 114 or PHIL 111) to satisfy the Philosophical Reasoning portion of the College's General education Requirements. PHIL 102 may be used for this purpose. Students who may desire to do graduate work in Philosophy are advised to take more than one course at the 500 level.

Courses must have the approval of the student's advisor and an advisor in the Philosophy Department. The approval of the Philosophy advisor may come at any stage of the program.

Philosophy, B.A.

Learning Outcomes

• Students will demonstrate knowledge of the history and most important disciplines of philosophy.
• Students will read philosophical texts knowledgeably and critically.
• Students will recognize philosophical questions and grasp philosophical arguments.
• Students will engage in philosophical discussion and will be capable of presenting philosophical ideas in class.
• Students will write philosophical papers that require research, interpretation and argument.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.

2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>1. Carolina Core Requirements (32-44 hours)</td>
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</tr>
<tr>
<td>CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)</td>
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</tr>
<tr>
<td>ARP – Analytical Reasoning and Problem Solving (6-7 hours)</td>
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<tr>
<td>SCI – Scientific Literacy (8 hours)</td>
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</tr>
<tr>
<td>GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)</td>
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</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

• PHIL 114
• Any CC-ARP course (p. 743)

SCI – Scientific Literacy (8 hours)

• Two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course. The foreign languages recommended for students majoring in philosophy are French, German, Greek, and Latin.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)
GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  • any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
  • any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
  • any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
  • any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
  • any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
  • only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
  • One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  or
  • One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
  • Three hours of Social Science
  • Nine hours of Fine Arts or Humanities

3. Program Requirements (34-49 hours)
Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (16-37 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Note: 13-34 hours of electives will be needed to reach hours to graduate and Program Requirements will range from 31-46 hours, if completing the B.A. with Distinction in Philosophy.
4. Major Requirements (24 hours)

A minimum grade of C is required in all major courses.

### Major Courses (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 390</td>
<td>Junior Seminar in Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 490</td>
<td>Senior Seminar in Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from each of the following groups:

- **Ancient Philosophy:**
  - PHIL 301: Ancient Philosophy
  - PHIL 302: Greek and Roman Philosophy after Aristotle
  - PHIL 303: History of Medieval Philosophy
  - PHIL 312: Classical Origins of Western Medical Ethics
  - PHIL 313: Between Magic and Method: Ancient Medicine

- **Modern Philosophy:**
  - PHIL 304: Seventeenth and Eighteenth-Century Philosophy
  - PHIL 305: Nineteenth and Twentieth-Century Philosophy
  - PHIL 310: American Philosophy
  - PHIL 311: Existentialism

- **Field of Philosophy:**
  - PHIL 310: American Philosophy
  - PHIL 311: Existentialism
  - PHIL 312: Classical Origins of Western Medical Ethics
  - PHIL 313: Between Magic and Method: Ancient Medicine
  - PHIL 320: Ethics
  - PHIL 321: Medical Ethics
  - PHIL 322: Environmental Ethics
  - PHIL 323: Ethics of Science and Technology
  - PHIL 324: Business Ethics
  - PHIL 325: Engineering Ethics
  - PHIL 330: Social and Political Philosophy
  - PHIL 331: Crime and Justice
  - PHIL 332: Philosophy of Education
  - PHIL 333: Contemporary Marxism and Society
  - PHIL 334: Feminist Philosophy
  - PHIL 340: Philosophy of Art
  - PHIL 341: Philosophy and Film
  - PHIL 350: Knowledge and Reality
  - PHIL 351: Mind and Nature
  - PHIL 360: History and Philosophy of Science
  - PHIL 370: Special Topics in Philosophy
  - PHIL 390: Junior Seminar in Philosophy

**Total Credit Hours:** 15

### Major Electives (9 hours)

- Two courses in Philosophy at the 500-level
- One course in Philosophy numbered 201 or above

Notes: Students majoring in philosophy are encouraged to take PHIL 390 during the junior year, or before the final 30 hours of study.

If PHIL 390 is used to satisfy both the Junior Seminar in Philosophy and Field of Philosophy requirements, then the student must take an additional course numbered 201 or above in order to reach the required 24 hours for the major.

### B.A. with Distinction (27 hours)

The Departmental Undergraduate Research Track is available to students majoring in philosophy who wish to participate in significant research activities in collaboration with, or under the supervision of, a faculty mentor.

In addition to the General Major Requirements, students must complete the following:

- PHIL 495
- A minimum GPA of 3.50 in the major
- A minimum cumulative GPA of 3.30
- A public presentation of the Senior Thesis in one of the following venues:
  - Annual Meeting of the South Carolina Society for Philosophy (or another appropriate meeting)
  - A regular or special session of the Philosophy Department Colloquium Series
  - USC Discovery Day
  - Submission to an undergraduate or a professional journal
- A written sponsorship agreement with the supervising faculty member will be placed on file in the Department of Philosophy office.

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

### Philosophy, B.A.

**Physics and Astronomy**

Department Website (http://www.physics.sc.edu/)

Ralf Gothe, Chair

The undergraduate program in physics is designed to provide a fundamental understanding of both experimental and theoretical physics. All of the majors provide a strong basis for graduate study in physics. The applied major is designed for students seeking employment by industrial or governmental laboratories upon completing their B.S. By a suitable choice of electives students will also be prepared for graduate study in the other sciences, mathematics, medicine, or engineering or to enter the University's special teacher education program that leads to a master's degree and teacher certification.

### Programs

- Astronomy Minor (p. 184)
- Physics Minor (p. 185)
- Physics, B.S. (p. 185)
Courses

ASTR 101 - Introduction to Astronomy (4 Credits)
An introduction to the solar system and universe accomplished with interactive lectures, demonstrations, and laboratory experience. Designed primarily for the non-science major.
Carolina Core: SCI

ASTR 201 - Introduction to Astronomy II: The Dark Universe (3 Credits)
Astronomical topics including stellar death, black holes, dark matter, dark energy and cosmology. Astronomical techniques and application of the scientific method in astronomy.
Prerequisites: ASTR 101 or SCHC 115.

ASTR 320 - Introduction to Radio Astronomy (3 Credits)
Nature of the sun, planets; galactic and extragalactic sources at radio wavelengths; quasars; techniques, detectors, and telescopes.
Prerequisites: ASTR 211, MATH 115 or equivalent, and PHYS 202, PHYS 212.

ASTR 340 - Introduction to Relativistic Astrophysics (3 Credits)
Final states of stellar evolution; white dwarfs, neutron stars, black holes. Cosmology.
Prerequisites: ASTR 211, MATH 115 or equivalent, and PHYS 202, PHYS 212.

Cross-listed course: PHYS 340

ASTR 499 - Undergraduate Research (3 Credits)
Introduction to and application of the methods of research. A written report on work accomplished is required at the end of each semester.
Graduation with Leadership Distinction: GLD: Research

ASTR 533 - Advanced Observational Astronomy (1-3 Credits)
Development of a combination of observational techniques and facility at reduction of data. A maximum of eight hours per week of observation, data reduction, and consultation. Offered each semester by arrangement with the department.

ASTR 534 - Advanced Observational Astronomy (1-3 Credits)
A continuation of ASTR 533. Up to eight hours per week of observation, data reduction, and consultation.

ASTR 599 - Topics in Astronomy (1-3 Credits)
Readings and research on selected topics in astronomy. Course content varies and will be announced in the schedule of classes by title.

PHYS 101 - The Physics of How Things Work I (3 Credits)
A practical introduction to physics and science in everyday life—from concrete examples to basic physical principles.
Carolina Core: SCI

PHYS 101L - The Physics of How Things Work I Lab (1 Credit)
Experiments, exercises, and demonstrations to accompany PHYS 101.
Prerequisite or Corequisite: PHYS 101.

Carolina Core: SCI

PHYS 102 - The Physics of How Things Work II (3 Credits)
A continuation of PHYS 101 with emphasis on electricity, magnetism, optics, and atomic physics.
Prerequisites: PHYS 101.

PHYS 102L - The Physics of How Things Work II Lab (1 Credit)
Experiments, exercises, and demonstrations to accompany PHYS 102.
Prerequisite or Corequisite: PHYS 102.

PHYS 151 - Physics in the Arts (3 Credits)
The physics of sound, color, illumination; musical instruments and photographic processes. Credit may not be received for both PHYS 151 and PHYS 153 or both PHYS 151 and PHYS 155.

PHYS 151L - Physics in the Arts Laboratory (1 Credit)
Laboratory work on wave motion, including acoustic, optical, photographic, and electronic measurements. Credit may not be received for both PHYS 151L and PHYS 153L or both PHYS 151L and PHYS 155L.
Prerequisite or Corequisite: PHYS 151.

PHYS 153 - Physics in the Visual Arts (3 Credits)
Principals of optics: video, and photography, eye and vision, color, polarization, lasers, and holography. Credit may not be received for both PHYS 153 and PHYS 151.

PHYS 153L - Physics in the Visual Arts Laboratory (1 Credit)
Laboratory work in geometrical and wave optics. Credit may not be received for both PHYS 153L and PHYS 151L.
Prerequisite or Corequisite: PHYS 153.

PHYS 155 - Musical Acoustics (3 Credits)
The principles of musical and architectural acoustics, waves and vibrations, digital techniques for generating and recording sound, perception and measure of sound (psychoacoustics). Credit may not be received for both PHYS 155 and PHYS 151.

PHYS 155L - Acoustics Laboratory (1 Credit)
Laboratory work in musical and architectural acoustics. Credit may not be received for both PHYS 155L and PHYS 151L.
Prerequisite or Corequisite: PHYS 155.

PHYS 180 - Physics Concepts, Calculations, and Context (1 Credit)
Problem solving techniques and mathematical language using key concepts in introductory physics.
Corequisite: PHYS 201 or PHYS 202.

PHYS 199 - Measurement and Analysis in Physics (2 Credits)
Measurements in classical and modern physics are performed, and the analyzed results are compared with basic principles. Four hours of mixed lecture and laboratory per week.
Prerequisites: C or better in MATH 115 or equivalent or higher.

PHYS 201 - General Physics I (3 Credits)
First part of an introductory course sequence. Topics include mechanics, and selections from wave motion, sound, fluids, and heat. No previous background in physics is assumed.
Prerequisites: C or better in MATH 111, MATH 111I, MATH 112, MATH 115, MATH 116, MATH 122, MATH 141, or by placement score into MATH 122, MATH 141, or higher.

Carolina Core: SCI

PHYS 201L - General Physics Laboratory I (1 Credit)
Prerequisite or Corequisite: PHYS 201.

Carolina Core: SCI

PHYS 202 - General Physics II (3 Credits)
Continuation of PHYS 201; includes electromagnetism, relativity, quantum physics, atomic and nuclear physics.
Prerequisites: C or better in PHYS 201.

Carolina Core: SCI
PHYS 202L - General Physics Laboratory II (1 Credit)
Prerequisite or

Carolina Core: SCI

PHYS 211 - Essentials of Physics I (3 Credits)
Classical mechanics and wave motion. Calculus-level course for students of science and engineering.
Prerequisites: C or better in MATH 141.
Corequisite: PHYS 211L.

Carolina Core: SCI

PHYS 211L - Essentials of Physics I Lab (1 Credit)
Prerequisite or
Corequisite: PHYS 206 or PHYS 211.

Carolina Core: SCI

PHYS 212 - Essentials of Physics II (3 Credits)
Classical electromagnetism and optics.
Prerequisites: C or better in PHYS 211 and MATH 142.
Corequisite: PHYS 212L.

Carolina Core: SCI

PHYS 212L - Essentials of Physics II Lab (1 Credit)
Prerequisite or
Corequisite: PHYS 207 or PHYS 212.

Carolina Core: SCI

PHYS 291 - Einstein's Relativity: Understanding by Example (3 Credits)
Special theory of relativity. Algebra-based course for students of all majors.
Prerequisites: B or better in MATH 115 or equivalent.

PHYS 306 - Principles of Physics III (3 Credits)
Wave motion, optics, and thermodynamics. Calculus-level treatment; a continuation of PHYS 207 and PHYS 212.
Prerequisites: C or better in PHYS 207 or PHYS 212 and MATH 142.
Corequisite: MATH 241.

PHYS 307 - Introduction to Modern Physics (3 Credits)
Experimental foundations and general concepts of quantum theory and special relativity; with selected applications from atomic, condensed matter, and nuclear physics.
Prerequisites: C or better in PHYS 212 and MATH 241.

PHYS 308 - Classic Experiments in Physics I (2 Credits)
A laboratory course in the performance and analysis of experiments which have contributed to an understanding of basic concepts. One lecture/recitation and one three-hour laboratory period each week.
Prerequisites: PHYS 202, PHYS 207, or PHYS 212.

PHYS 309 - Classic Experiments in Physics II (2 Credits)
Further experiments which have contributed to an understanding of basic concepts. One lecture/recitation and one three-hour laboratory period each week.
Prerequisites: PHYS 308.

PHYS 310 - Intermediate Experimental Physics (4 Credits)
Descriptive statistics, scientific ethics, and design, construction, and reporting the results of experiments.
Prerequisites: C or better in PHYS 212.

PHYS 311 - Introduction to Applied Numerical Methods (3 Credits)
Introduction and application of linear algebra and numerical methods to the solution of physical and engineering problems. Techniques include iterative solution techniques, methods of solving systems of equations, and numerical integration and differentiation.
Prerequisites: MATH 141.
Corequisite: MATH 142.

Cross-listed course: EMCH 201, ENCP 201

PHYS 340 - Introduction to Relativistic Astrophysics (3 Credits)
Final states of stellar evolution; white dwarfs, neutron stars, black holes. Cosmology.
Prerequisites: ASTR 211, MATH 115 or equivalent, and PHYS 202, PHYS 207, or PHYS 212.

PHYS 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

PHYS 498 - Senior Thesis (3 Credits)
An individual investigation in the library or laboratory or both under supervision of the major professor. The preparation of a scientific report is an integral part of the work.
Graduation with Leadership Distinction: GLD: Research

PHYS 499 - Undergraduate Research (3 Credits)
Introduction to and application of the methods of research. A written report on work accomplished is required at the end of each semester.
Prerequisites: PHYS 308 and PHYS 309.

Graduation with Leadership Distinction: GLD: Research

PHYS 501 - Quantum Physics I (3 Credits)
A self-contained treatment of quantum theory and its applications, beginning with the Schrodinger equation.
Prerequisites: C or better in PHYS 307 and MATH 242.

PHYS 502 - Quantum Physics II (3 Credits)
Advanced topics in quantum physics, plus topics in special relativity, high-energy physics, and cosmology.
Prerequisites: C or better in PHYS 501.

PHYS 503 - Mechanics (4 Credits)
Classical mechanics of particles, systems, and rigid bodies; discussion and application of Lagrange's equations, introduction to Hamiltonian formulation of mechanics.
Prerequisites: PHYS 206 or PHYS 211, MATH 242 or MATH 520.

PHYS 504 - Electromagnetic Theory (4 Credits)
Field theory of electric and magnetic phenomena; Maxwell's equations applied to problems in electromagnetism and radiation.
Prerequisites: C or better in PHYS 503.

PHYS 506 - Thermal Physics and Statistical Mechanics (3 Credits)
Principles of equilibrium thermodynamics, kinetic theory, and introductory statistical mechanics.
Prerequisites: C or better in PHYS 306.
PHYS 509 - Solid State Electronics (4 Credits)
Topics include: basic electrical circuits; electronic processes in solids; operation and application of individual solid state devices and integrated circuits. Three lecture and three laboratory hours per week.
Prerequisites: PHYS 207 or PHYS 212.

PHYS 510 - Digital Electronics (3 Credits)
Basic operation of digital integrated circuits including microprocessors. Laboratory application of microprocessors to physical measurements.
Prerequisites: C or better in PHYS 509.

PHYS 511 - Nuclear Physics (4 Credits)
An elementary treatment of nuclear structure, radioactivity, and nuclear reactions. Three lecture and three laboratory hours per week.
Prerequisites: C or better in PHYS 501.

PHYS 512 - Solid State Physics (4 Credits)
Crystal structure; lattice dynamics; thermal, dielectric, and magnetic properties of solids. Free electron model of metals. Band structure of solids, semi-conductor physics. Three lecture and three laboratory hours per week.
Prerequisites: PHYS 502.

PHYS 514 - Optics, Theory, and Applications (4 Credits)
Geometrical and physical optics; wave nature of light, lenses and optical instruments, interferometers, gratings, thin films, polarization, coherence, spatial filters, and holography. Three lecture and three laboratory hours per week.
Prerequisites: PHYS 306.

PHYS 515 - Mathematical Physics I (3 Credits)
Analytical function theory including complex analysis, theory of residues, and saddlepoint method; Hilbert space, Fourier series; elements of distribution theory; vector and tensor analysis with tensor notation.
Prerequisites: MATH 242.

PHYS 516 - Mathematical Physics II (3 Credits)
Group theory, linear second-order differential equations and the properties of the transcendental functions; orthogonal expansions; integral equations; Fourier transformations.
Prerequisites: PHYS 515.

PHYS 517 - Computational Physics (3 Credits)
Application of numerical methods to a wide variety of problems in modern physics including classical mechanics and chaos theory, Monte Carlo simulation of random processes, quantum mechanics and electrodynamics.
Prerequisites: C or better in PHYS 212 and MATH 142.

PHYS 521 - Biophysics (4 Credits)
Principles of physics applied to living systems: diffusion, friction, low Reynolds-number world, entropy, free energy, entropic/chemical forces, self-assembly, molecular machines, membranes.
Prerequisites: MATH 142, PHYS 212, CHEM 112, BIOL 102.

PHYS 531 - Advanced Physics Laboratory I (1-3 Credits)
A laboratory program designed to develop a combination of experimental technique and application of the principles acquired in formal course work. A maximum of eight hours per week of laboratory and consultation.

PHYS 532 - Advanced Physics Laboratory II (1-3 Credits)
A continuation of PHYS 531. Up to eight hours per week of laboratory and consultation.

PHYS 541 - Advanced Experimental Physics I (4 Credits)
Continuation of PHYS 310. Optical apparatus (telescope, microscope, interferometer) and advanced project planning including equipment design and budgeting.
Prerequisites: C or better in PHYS 310.

PHYS 542 - Advanced Experimental Physics II (4 Credits)
Continuation of PHYS 541. Study of topics from Advanced Optics, Astronomy, Biophysics, Digital Electronics, Nuclear/Particle Physics, or Solid State Physics, plus conduction of a physics experiment, including a written paper and an oral presentation.
Prerequisites: C or better in PHYS 541.

PHYS 546 - Introduction to Astrophysics (3 Credits)
This is an astrophysics course for physics students. The course will cover the basics of observational techniques, structure and evolution of stars, interstellar medium and star formation, structure and properties of the Milky Way and nearby galaxies, and generation and transfer of radiation in astrophysical environments.
Prerequisites: C+ or better in PHYS 307.

PHYS 599 - Topics in Physics (1-3 Credits)
Readings and research on selected topics in physics. Course content varies and will be announced in the schedule of classes by title.
Physics Minor

Minor Requirements

Prerequisite Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 211</td>
<td>Essentials of Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 211L</td>
<td>Essentials of Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>4</strong></td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212L</td>
<td>Essentials of Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 306</td>
<td>Principles of Physics III</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 307</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 310</td>
<td>Intermediate Experimental Physics</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

Additional Courses

- Three or more credits in Physics courses numbered 311 or higher.

Physics, B.S.

Learning Outcomes

- Students will demonstrate an understanding of the physical phenomena and the use of scientific methods and theories.
- Students will demonstrate their ability to communicate effectively through written reports, which exhibit their ability to comprehend, analyze, and interrogate critically.
- Students will demonstrate their ability to communicate effectively through oral presentations, which exhibit their ability to comprehend, analyze, interrogate critically and present their work to others.
- Students will demonstrate effective use of computers and other technology.

Transfer Requirements

In addition to the minimum University and College of Arts and Sciences requirements, a student seeking to transfer to the physics major from another program within the University, or from another accredited college or university, is required to have earned a grade of "C" or higher in MATH 141.

Note: An AP or IB exam score that provides credit for MATH 141 also satisfies this requirement.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Core</td>
<td>33-45</td>
</tr>
<tr>
<td>College Requirements</td>
<td>16-19</td>
</tr>
<tr>
<td>Program Requirements</td>
<td>24-39</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>32-54</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (33-45 hours)

Effective, Engaged, and Persuasive Communication: Written – CMW (6 hours)

must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (8 hours)

must be passed with a grade of C or higher

- MATH 141
- MATH 142

SCI – Scientific Literacy (7 hours)

must be passed with a grade of C or higher

- CHEM 111 & CHEM 111L
- PHYS 211

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and
Accordingly, please select one of the following:

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
  - any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  - any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
  - any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
  - any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
  - any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
  - any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (16-19 hours)

Foreign Language (0-3 hours)
  - only if needed to meet 122-level proficiency

Analytical Reasoning (7 hours)
  must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 145</td>
<td>Algorithmic Design I</td>
<td>4</td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 515</td>
<td>Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

Total Credit Hours

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214 or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  - or

- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)

Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Three hours of Fine Arts or Humanities

3. Program Requirements (24-39 hours)

Supporting Courses (24 hours)

must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 112L</td>
<td>and General Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td>PHYS 199</td>
<td>Measurement and Analysis in Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 306</td>
<td>Principles of Physics III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 520</td>
<td>Ordinary Differential Equations</td>
<td></td>
</tr>
<tr>
<td>Select six hours of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MATH 300</td>
<td>Transition to Advanced Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 344</td>
<td>Applied Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 500-level and above (selected with advisor)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credit Hours

Cognate

The required mathematics courses satisfy the cognate requirement.

Electives (0-15 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (32-54 hours)

A minimum grade of C is required in all major courses.

Major Courses (32 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 307</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHYS 308</td>
<td>Classic Experiments in Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; 309</td>
<td>and Classic Experiments in Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 310</td>
<td>Intermediate Experimental Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 501</td>
<td>Quantum Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 502</td>
<td>Quantum Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 503</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 504</td>
<td>Electromagnetic Theory</td>
<td>4</td>
</tr>
</tbody>
</table>
PHYS 506  Thermal Physics and Statistical Mechanics  3  
PHYS 541  Advanced Experimental Physics I  4  

Select one of the following Experimental Physics courses:  4  
PHYS 509  Solid State Electronics  
PHYS 510  Digital Electronics  
PHYS 511  Nuclear Physics  
PHYS 512  Solid State Physics  
PHYS 514  Optics, Theory, and Applications  
PHYS 521  Biophysics  
PHYS 542  Advanced Experimental Physics II  

Total Credit Hours  32  

**Engineering Physics Concentration (52-54 hours) optional**

In order to select the Engineering Physics Concentration a student must have achieved a minimum overall GPA of 2.5 with at least 15 hours taken at USC-Columbia. In addition, the student must have passed MATH 141 with a grade of "C" or higher. (An AP or IB exam score that provides credit for MATH 141 also satisfies this requirement.)

Select either the Electrical or Mechanical Option.

**Electrical Option (52-53 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 211</td>
<td>Digital Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 102</td>
<td>Electrical Science</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 201</td>
<td>Introductory Electrical Engineering Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 221</td>
<td>Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 222</td>
<td>Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 301</td>
<td>Electronics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 371</td>
<td>Electronics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 307</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:  4  
PHYS 308  Classic Experiments in Physics I  
& 309  and Classic Experiments in Physics II  
PHYS 310  Intermediate Experimental Physics  
PHYS 311  Introduction to Applied Numerical Methods  
PHYS 501  Quantum Physics I  
PHYS 503  Mechanics  
PHYS 504  Electromagnetic Theory  
PHYS 506  Thermal Physics and Statistical Mechanics  
PHYS 541  Advanced Experimental Physics I  

Total Credit Hours  52-53  

**Mechanical Option (52-54 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMCH 200</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 260</td>
<td>Solid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 290</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four courses (at least 12 hours) from EMCH 300 and above  12  
PHYS 307  Introduction to Modern Physics  
Select one of the following:  4  
PHYS 308  Classic Experiments in Physics I  
& 309  and Classic Experiments in Physics II  
PHYS 310  Intermediate Experimental Physics  
PHYS 311  Introduction to Applied Numerical Methods  
PHYS 501  Quantum Physics I  
PHYS 503  Mechanics  
PHYS 504  Electromagnetic Theory  
PHYS 541  Advanced Experimental Physics I  

Select two of the following Physics electives:  6-8  
PHYS 502  Quantum Physics II  
PHYS 506  Thermal Physics and Statistical Mechanics  
PHYS 509  Solid State Electronics  
PHYS 511  Nuclear Physics  
PHYS 512  Solid State Physics  
PHYS 514  Optics, Theory, and Applications  
PHYS 521  Biophysics  
PHYS 542  Advanced Experimental Physics II  

Total Credit Hours  52-54  

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**Physics, B.S. No Concentration**

**Physics, B.S. Engineering Physics (Electrical Option) Concentration**

**Physics, B.S. Engineering Physics (Mechanical Option) Concentration**

**Political Science**

Department Website (http://www.cas.sc.edu/poli/)

Todd Shaw, Chair

The department offers the Bachelor of Arts degree with majors in political science and international studies. Students can pursue either a general or intensive major in either political science or international studies.

**Programs**

- International Studies Minor (p. 192)
- International Studies, B.A. (p. 193)
- Leadership Studies Minor (p. 195)
• Political Science Minor (p. 198)
• Political Science, B.A. (p. 198)

Courses

POLI 101 - Introduction to Global Politics (3 Credits)
Introduction to theories about global politics. Issues and controversies central to global politics.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

POLI 103A - Controversies in the Politics of Global Regions: Africa (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 103B - Controversies in the Politics of Global Regions: Asia (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 103C - Controversies in the Politics of Global Regions: Europe (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 103D - Controversies in the Politics of Global Regions: Latin America (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 103E - Controversies in the Politics of Global Regions: Middle East (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 105 - Introduction to Politics (3 Credits)
Concepts and problems involved in human relationship with governments, the nation-state, and political change.

POLI 107 - Controversies in Political Theory (3 Credits)
An introduction to the analysis of disputes about the nature of politics and of political ideas such as freedom, equality, and justice.

POLI 109 - Controversies in Public Policy (3 Credits)
An introduction to the analysis of contentious public policy questions in contemporary American society, such as welfare, gun control, health care financing, immigration, affirmative action, and/or abortion.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

POLI 111 - Controversies in American Politics (3 Credits)
An introduction to the analysis of key issues in contemporary American politics focusing on the arguments, the groups involved, and the political factors that influence the outcome of the debate.

POLI 121 - Green Explorations (3 Credits)
Interdisciplinary seminar combining the intellectual exploration of ecological perspectives with the physical exploration of the local environment. First-year students only.
Cross-listed course: ENVR 121

POLI 122 - Green Engagements (3 Credits)
Interdisciplinary seminar on designing, researching, and implementing collaborative projects to promote ecological sustainability. First-year students only.
Cross-listed course: ENVR 122
Graduation with Leadership Distinction: GLD: Community Service, GLD: Research

POLI 201 - American National Government (3 Credits)
The formation and development of the national government, its organization and powers. Overlay Course.
Carolina Core: GSS, VSR

POLI 202 - Policies and Functions of American Government (3 Credits)
The policies and functions of the American national government directed to the public issues and problems of contemporary America.
Prerequisites: POLI 201.

POLI 215 - Introduction to Leadership Studies (3 Credits)
Conceptions and models, values and pitfalls, strategies and skills of leadership and of leaders in diverse contexts
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

POLI 240 - Language Conflict and Language Rights (3 Credits)
Examination of linguistic conflict and rights, as well as centrality of language rights to human rights and personal/cultural identity. Basic facts without language related to identify, culture, attitudes, dialects, bilingualism. Case studies (local, national, international) with particular attention to nationalism, language revitalization, language planning.
Cross-listed course: LING 240
Carolina Core: VSR

POLI 300 - Social and Political Philosophy (3 Credits)
An overview of major themes in political philosophy such as the nature of politics, obligation, community, representation, freedom, equality, and justice.
Cross-listed course: PHIL 330
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

POLI 301 - The Political Science Discipline (3 Credits)
The history and development of approaches, methods, and fields of study in political science.
Graduation with Leadership Distinction: GLD: Research

POLI 302 - Classical and Medieval Political Theory (3 Credits)
Political theories from the Greeks to the Renaissance.
Carolina Core: VSR

POLI 303 - Modern Political Theory (3 Credits)
Political theories from the Renaissance to the 19th century.
Carolina Core: VSR

POLI 304 - Contemporary Political Theory (3 Credits)
Nineteenth and 20th century political theories.
Carolina Core: VSR
Experiences
Advocacy, GLD: Professional and Civic Engagement Leadership
Graduation with Leadership Distinction:
Cross-listed course:
- American citizenship.
- American politics, and analysis of major policies and racial group
  economic, social, and political concomitants.
- Introduction to U.S. Racial and Ethnic Politics (3 Credits)
- Politics and the Mass Media (3 Credits)
- African-American politics from the colonial period to the present.
- Film, Politics, and Social Change (3 Credits)
- Critical analysis of film as expression and agent of political cultural,
  ideology, and change.
- Graduation with Leadership Distinction: GLD: Diversity and Social
  Advocacy
  - American Political Parties (3 Credits)
  - A broad survey of the role of political parties in the American political
    system. Following an examination of the historical evolution of party
    systems in the United States, primary attention is given to three aspects
    of contemporary political parties: the party as an organization, the party
    as an electorate, and the party as a governing elite.
  - Elections and Voting Behavior (3 Credits)
  - An analysis of elections and the voting process. Topics include candidate
    selection, campaigning, and the conduct of elections as well as public
    opinion, voting behavior, and the role of elections in the democratic
    political system.
  - Politics and the Mass Media (3 Credits)
  - Survey of the role in American politics of mass communications media,
    including the press and electronic news reporting; influence of mass
    media on the conduct of political campaigns, political leadership style,
    and public opinion.
  - Southern Politics (3 Credits)
  - Selected political patterns and trends within the 11 states of the
    American South. Historical developments with the central focus on
    Southern politics since 1950.
  - African-American Politics (3 Credits)
  - African-American politics from the colonial period to the present.
    Emphasis on voting rights and strategies to advance black
    representation.
  - Cross-listed course: AFAM 364
  - Graduation with Leadership Distinction: GLD: Diversity and Social
    Advocacy, GLD: Professional and Civic Engagement Leadership
    Experiences
  - State Government (3 Credits)
  - A study of state-federal relations, relations among states, state
    constitutions, and the structure and functions of the three branches of
    government. Emphasis is given to South Carolina.
  - Interest Groups and Social Movements (3 Credits)
  - The mobilization, organization, tactics, and results of group-based
    politics, including latent interests and the suppression of interests.
  - Graduation with Leadership Distinction: GLD: Diversity and Social
    Advocacy, GLD: Professional and Civic Engagement Leadership
    Experiences
  - Introduction to Public Administration (3 Credits)
  - A study of the basic principles and theory of administrative structure,
    responsibility, and control in relation to policy making in the modern
    state.
  - Graduation with Leadership Distinction: GLD: Professional and Civic
    Engagement Leadership Experiences
  - Politics of Taxing and Spending (3 Credits)
  - Principles and practices of financial administration, including
    organization, budgeting, assessment, treasury management, and debt.
  - Regulatory Policies (3 Credits)
  - Types and limits of powers exercised by regulatory agencies; procedural
    law and remedies against administrative action.

POLI 305 - Race, Class, Gender, and Sexuality (3 Credits)
- Historical and contemporary power relationships in race, social class,
  gender, and sexual orientation.
- Cross-listed course: SOCY 304, WGST 304
- Graduation with Leadership Distinction: GLD: Community Service, GLD:
  Diversity and Social Advocacy, GLD: Professional and Civic Engagement
  Leadership Experiences

POLI 307 - Feminist Theory (3 Credits)
- Historical development of feminist theory and contemporary debates
  within feminism.
- Cross-listed course: WGST 307
- Graduation with Leadership Distinction: GLD: Diversity and Social
  Advocacy, GLD: Professional and Civic Engagement Leadership
  Experiences

POLI 315 - International Relations (3 Credits)
- International political behavior and institutions.
- Graduation with Leadership Distinction: GLD: Global Learning

POLI 316 - Comparative Politics (3 Credits)
- Comparative approaches to political systems, behavior, and institutions.
- Graduation with Leadership Distinction: GLD: Global Learning

POLI 330 - International Organization (3 Credits)
- An introduction to the structure and functions of international political
  and economic organizations. Particular attention to the United Nations
  and its specialized agencies, and to emerging regional communities.
- Graduation with Leadership Distinction: GLD: Global Learning

POLI 340 - The Conduct and Formulation of United States Foreign Policy (3 Credits)
- An analysis of how contemporary United States foreign policy is made
  and conducted.
- Graduation with Leadership Distinction: GLD: Global Learning

POLI 341 - Contemporary United States Foreign Policy (3 Credits)
- A critical analysis of selected problems of United States foreign policy.
- Graduation with Leadership Distinction: GLD: Global Learning

POLI 342 - National Security Policies of the United States (3 Credits)
- Formulation and implementation of contemporary United States defense
  and security policies.
- Graduation with Leadership Distinction: GLD: Global Learning

POLI 350 - Public Opinion and Politics (3 Credits)
- A broad survey of the role and development of public attitudes
  toward political problems in a democracy. Emphasis on the origins,
  manifestations, and consequences of public opinion in American politics.

POLI 352 - Gender and Politics (3 Credits)
- Impact of gender on the distribution of power in society; foundations
  for intersections of gender, race, social class, and sexuality and their
  economic, social, and political concomitants.
- Cross-listed course: WGST 352
- Graduation with Leadership Distinction: GLD: Diversity and Social
  Advocacy, GLD: Professional and Civic Engagement Leadership
  Experiences

POLI 353 - Introduction to U.S. Racial and Ethnic Politics (3 Credits)
- Survey of theories of the impact of race, ethnicity, and racism on
  American politics, and analysis of major policies and racial group
  experience regarding American citizenship.
- Cross-listed course: AFAM 353
- Graduation with Leadership Distinction: GLD: Diversity and Social
  Advocacy, GLD: Professional and Civic Engagement Leadership
  Experiences

POLI 357 - Film, Politics, and Social Change (3 Credits)
- Critical analysis of film as expression and agent of political cultural,
  ideology, and change.
- Graduation with Leadership Distinction: GLD: Diversity and Social
  Advocacy

POLI 360 - American Political Parties (3 Credits)
- A broad survey of the role of political parties in the American political
  system. Following an examination of the historical evolution of party
  systems in the United States, primary attention is given to three aspects
  of contemporary political parties: the party as an organization, the party
  as an electorate, and the party as a governing elite.

POLI 361 - Elections and Voting Behavior (3 Credits)
- An analysis of elections and the voting process. Topics include candidate
  selection, campaigning, and the conduct of elections as well as public
  opinion, voting behavior, and the role of elections in the democratic
  political system.

POLI 362 - Politics and the Mass Media (3 Credits)
- Survey of the role in American politics of mass communications media,
  including the press and electronic news reporting; influence of mass
  media on the conduct of political campaigns, political leadership style,
  and public opinion.

POLI 363 - Southern Politics (3 Credits)
- Selected political patterns and trends within the 11 states of the
  American South. Historical developments with the central focus on
  Southern politics since 1950.

POLI 364 - African-American Politics (3 Credits)
- African-American politics from the colonial period to the present.
  Emphasis on voting rights and strategies to advance black
  representation.
- Cross-listed course: AFAM 364
- Graduation with Leadership Distinction: GLD: Diversity and Social
  Advocacy, GLD: Professional and Civic Engagement Leadership
  Experiences

POLI 365 - State Government (3 Credits)
- A study of state-federal relations, relations among states, state
  constitutions, and the structure and functions of the three branches of
  government. Emphasis is given to South Carolina.

POLI 368 - Interest Groups and Social Movements (3 Credits)
- The mobilization, organization, tactics, and results of group-based
  politics, including latent interests and the suppression of interests.
- Graduation with Leadership Distinction: GLD: Diversity and Social
  Advocacy, GLD: Professional and Civic Engagement Leadership
  Experiences

POLI 370 - Introduction to Public Administration (3 Credits)
- A study of the basic principles and theory of administrative structure,
  responsibility, and control in relation to policy making in the modern
  state.
- Graduation with Leadership Distinction: GLD: Professional and Civic
  Engagement Leadership Experiences

POLI 371 - Politics of Taxing and Spending (3 Credits)
- Principles and practices of financial administration, including
  organization, budgeting, assessment, treasury management, and debt.

POLI 373 - Regulatory Policies (3 Credits)
- Types and limits of powers exercised by regulatory agencies; procedural
  law and remedies against administrative action.
POLI 374 - Public Policy (3 Credits)
Process of and major approaches to making public policy particularly, in the United States. Case study materials will focus on such major policies as welfare, health care, national security, and resource management.

POLI 379 - Public Affairs Internship (2-6 Credits)
Contract approved by Instructor, Advisor, and Department Chair is required for undergraduates.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

Experiential Learning: Experiential Learning Opportunity

POLI 380 - Comparative Politics of Developing Countries (3 Credits)
A comparative analysis of the political problems confronting new nations, the political consequences of the breakdown of traditional society and the problems of developing new institutional forms and procedures.

Graduation with Leadership Distinction: GLD: Global Learning

POLI 381 - Comparative Politics of Industrialized Countries (3 Credits)
Introduction to the development, structure, and functioning of government and politics in Western Europe, the former Soviet states, and other selected industrialized countries.

Graduation with Leadership Distinction: GLD: Global Learning

POLI 383 - Genocide: A Comparative Perspective (3 Credits)
An analysis of the causes of genocide and the application of those insights to explain how genocide has occurred repeatedly at various times and places across the globe.

POLI 391 - Topics in Political Science (3 Credits)
May be repeated once as topics change.

Graduation with Leadership Distinction: GLD: Community Service

POLI 393 - Race and Science Fiction (3 Credits)
Draws on science fiction to understand the contemporary history of American racial and ethnic politics and to speculate about the significance of race in America's political future.

Cross-listed course: AFAM 393

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 399 - Independent Study/Poli Sci (3 Credits)
Note: Prior approval of an individualized contract by the director of undergraduate studies in political science and the instructor who will supervise the project required.

Graduation with Leadership Distinction: GLD: Research

POLI 399A - Independent Study in Political Science (1-6 Credits)
Prior approval of and individualized contract by the director of undergraduate studies in political science and the instructor who will supervise the project required.

Graduation with Leadership Distinction: GLD: Research

POLI 399B - Independent Study in International Studies (1-6 Credits)
Prior approval of an individualized contract by the director of undergraduate studies in international studies and the instructor who will supervise the project required.

Graduation with Leadership Distinction: GLD: Research

POLI 400 - Selected Topics in Political Theory (3 Credits)
Intensive analysis of a particular topic or topics. To be identified by title each semester.

POLI 401 - Selected Thinkers in Political Theory (3 Credits)
Intensive analysis of particular theorist or theorists. To be identified by title each semester.

POLI 402 - African American Political Thought (3 Credits)
Survey of many of the major schools of historic and contemporary African American political thought.

Cross-listed course: AFAM 402

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 404 - Democratic Theory (3 Credits)
An introduction to contemporary theories and practices with focus on Western, especially American, experience.

POLI 406 - The State of American Politics (3 Credits)
Major factors that affect the state of contemporary American politics, including the Constitution, the Congress, the courts, the presidency, the states, federalism, political parties, special-interest groups, and the electoral process.

POLI 416 - Revolution and Political Violence (3 Credits)
Forms, causes, and consequences of domestic political violence with special attention to revolution.

Graduation with Leadership Distinction: GLD: Global Learning

POLI 417 - Theories of War in International Relations (3 Credits)
The contributions of the social sciences and social theorists to an understanding of the causes of war.

Graduation with Leadership Distinction: GLD: Global Learning

POLI 420 - International Law (3 Credits)
The origin, development, and principles of the international law of peace and the enforcement of these principles, the law of war and pacific settlement of disputes.

Graduation with Leadership Distinction: GLD: Global Learning

POLI 421 - Law and Contemporary International Problems (3 Credits)
The growth of law in several areas of increasing international concern: environmental protection, expropriation, outer space, individual rights and obligations, conservation of resources, state responsibility, and terrorism.

Graduation with Leadership Distinction: GLD: Global Learning

POLI 430 - Ideology and World Politics (3 Credits)
An introduction to the ideological context of world affairs, with attention to traditional democratic, totalitarian, and Third World "developmental ideologies”.

Graduation with Leadership Distinction: GLD: Global Learning

POLI 431 - Science, Technology, and Public Policy (3 Credits)
Interaction between science and politics, the making of the national science and technology policy, and the role of public policy in promoting and managing scientific change.

POLI 432 - Nationalism and Ethnicity in World Politics (3 Credits)
Nationalism and ethnicity as factors in world politics, including the sources, nature, and analysis of conflicts associated with them.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

POLI 433 - Economic Aspects of International Politics (3 Credits)
Economic problems and policies in international politics including theory of comparative advantage; international economic aid, trade and monetary issues; the United States’ role in the international economy; and the functions of international economic institutions.

Graduation with Leadership Distinction: GLD: Global Learning
POLI 437 - International Relations of Latin America (3 Credits)
Contemporary international relations among Latin American states, including economic and political security and relations with the United States.
Cross-listed course: LASP 451
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

POLI 440 - Russian Foreign Policy (3 Credits)
Analysis of the development of foreign policies in Russia and other states of the former USSR with special attention to relations with Europe and the United States.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 442 - Globalization and Security (3 Credits)
Exploration of the ways in which globalization may impact national and international security.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 443 - International Relations of East Asia and the Pacific (3 Credits)
Political patterns and forces in the Asia/Pacific region in recent times including the process of decolonization, regional conflicts, great power relations, and economic interdependencies.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 444 - International Relations in Japan (3 Credits)
The institutions, actors, and processes of Japan’s contemporary political and economic foreign affairs.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 445 - Political Economy of Africa's Regions (3 Credits)
The historic and contemporary political and economic processes and structures of one or more regions in Africa, such as North Africa, West Africa, East Africa, Central Africa, or Southern Africa.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 446 - International Relations of Africa (3 Credits)
Contemporary international relations among African nations including decolonization, pan-Africanism, and movements of national liberation; Africa’s role in the United Nations, relations between African states and the former colonial powers, the United States, and communist countries.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 447 - Foreign Policies of Selected Powers (3 Credits)
Foreign policy-making institutions, processes, and policies of selected powers with special attention to the domestic determinants of foreign policy.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 448 - Politics and Government of China (3 Credits)
Political institutions and processes of the People’s Republic of China with secondary emphasis on the government and politics of the Republic of China on Taiwan.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 449 - International Relations of the Middle East (3 Credits)
Examination of super- and great-power policies toward the Middle East; inter-regional relations and Middle East foreign relations.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 450 - Constitutional Law (3 Credits)
Nature and functions of the national government and its relations with the states.

POLI 451 - Constitutional Law (3 Credits)
Due process and civil liberties.

POLI 452 - The Judicial Process (3 Credits)
A study of the growth of law, the law-making function of the courts, the structure and organization of federal and state courts, the procedures involved in civil and criminal cases, and the problems and proposals for reform in the administration of justice.

POLI 453 - Moot Court and Legal Research (3 Credits)
Introduction to fundamental legal research techniques and strategies applied to controversial court cases in both oral and written forms.

POLI 454 - Women and the Law (3 Credits)
Constitutional and statutory case law dealing with gender equality issues. Topics include abortion, affirmative action, pornography, sexual harassment, fetal protection policies, employment discrimination, and women in the military.
Cross-listed course: WGST 454
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 461 - Congress and the Presidency (3 Credits)
Analysis of the interaction between the legislative and executive branches within a separation-of-power system.

POLI 462 - The Legislative Process (3 Credits)
A study of the structure, organization, powers, functions, and problems of legislative bodies.

POLI 463 - The American Chief Executive (3 Credits)
Constitutional, statutory and political powers and roles of the American chief executive.

POLI 464 - Roosevelt Institution Seminar (3 Credits)
Analysis and discussion of contemporary public policy problems through exposure to campus experts and intensive writing and peer review.

POLI 465 - Psychology and Politics (3 Credits)
The role of psychology in political attitudes and behavior. Examination of individual psycho-political relationships and aggregate typologies. Particular emphasis on the psychological roots of the need for or the rejection of political authority.
Prerequisites: PSYC 101.

POLI 470 - Federalism and Intergovernmental Relations (3 Credits)
The origins and evolution of the American federal system, focusing on the constitutional, regulatory, and financial entanglements among federal, state and local governments.

POLI 475 - Survey Research (3 Credits)
Principles and practice of survey research/public opinion polling including sampling, questionnaire design, data collection, coding processing and analysis.
Graduation with Leadership Distinction: GLD: Research

POLI 476 - Black Activism (3 Credits)
Critical review of theories of community organizing, grassroots activism, and social movements, and examination of contemporary forms of black activism.
Cross-listed course: AFAM 476
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 477 - Green Politics (3 Credits)
An analysis of green political thought and environmental movements at the local, state, national, and global levels.
Graduation with Leadership Distinction: GLD: Community Service
POLI 478 - Environmental Policy (3 Credits)
Themes in environmental policy in industrialized nations. Analysis of issue framing, the role of the public and private tools, and conflicting perspectives. Incorporates analysis of policy process and public management.

POLI 480 - Politics and Government of Russia (3 Credits)
Political processes and institutions of Russia and other independent states of the former USSR.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 481 - Politics and Governments of Europe (3 Credits)
Political processes and institutions of European nations.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 482 - Middle East Politics (3 Credits)
Focuses on the internal politics of Middle East states; historical and cultural setting of Middle East politics, social institutions, and dynamics of the political process.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 487 - Politics and Governments of Africa (3 Credits)
Political developments, processes, and institutions of the African nations.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 488 - Politics and Governments of Latin America (3 Credits)
The development, principles, political thought, and politics of the several Latin American states.
Cross-listed course: LASP 351
Graduation with Leadership Distinction: GLD: Global Learning

POLI 497 - Politics and Government of Japan (3 Credits)
Political institutions and processes of Japan.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 498 - Research Experience (3 Credits)
Working with a faculty mentor, students develop a research project and related search skills.
Prerequisites: minimum GPA of 3.60 in major courses, 3.30 overall.
Graduation with Leadership Distinction: GLD: Research

POLI 499 - Senior Thesis (3 Credits)
For intensive majors. Individual instruction in research techniques and supervised thesis preparation.
Graduation with Leadership Distinction: GLD: Research

POLI 500 - Selected Topics in Civilization and Culture (3 Credits)

POLI 502 - Methods of Political Analysis (3 Credits)
Quantitative techniques in political science; levels of measurement; problems of description, causation, and inference.

POLI 503 - American Political Thought (3 Credits)
Themes and thinkers in American political history.

POLI 504 - Politics and Ethics (3 Credits)
The nature of, and relationship between, politics and ethics.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

POLI 505 - Utopian Political Thought (3 Credits)
A critical examination of utopian and dystopian political ideas.

POLI 524 - Research in Language Conflict and Language Rights (3 Credits)
Research into the parameters governing linguistic conflicts and language rights issues, involving a close examination of the nexes of language and individual and ethnic identity, culture, dialects, bilingualism. Examination of regional, national, and international case studies, with particular attention to nationalism, language revitalization, and language planning.
Cross-listed course: LING 542

POLI 552 - Economic Development Policy (3 Credits)
The role government policies have in local and regional differences in economic performance; strategies governments and non-profits use to evaluate economic development policies; topical focus on a range of economic development policies, including land use, infrastructure, workforce development, and education.

POLI 554 - Law and Society (3 Credits)
The American judicial system, including the decision to resolve disputes by legal means, political influence on the legal system, the social impact of legal rulings, the relationship of the courts to other branches of government, and the applicability of higher law concepts in judicial decision making.

POLI 557 - American Local Government (3 Credits)
An introduction to the institutions, functions, policy-making processes, and politics of American local government.

POLI 569 - State and Local Government (3 Credits)
This course will examine the purpose, structure, and functions of state governments and their local subdivisions. Requires special permission of department. Restricted to social studies teachers.

POLI 570 - South Carolina Government and Politics (3 Credits)
South Carolina state and local government in the context of South Carolina history and U.S. state and local government.

POLI 591 - Special Topics in Political Science (3 Credits)
Intensive study of special topics in Political Science. May be repeated as content varies by title.

**International Studies Minor**

**Minor Requirements (18 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 101</td>
<td>Introduction to Global Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Electives**

Select 15 hours of the following: 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 315</td>
<td>International Relations</td>
</tr>
<tr>
<td>POLI 316</td>
<td>Comparative Politics</td>
</tr>
<tr>
<td>POLI 330</td>
<td>International Organization</td>
</tr>
<tr>
<td>POLI 340</td>
<td>The Conduct and Formulation of United States Foreign Policy</td>
</tr>
<tr>
<td>POLI 341</td>
<td>Contemporary United States Foreign Policy</td>
</tr>
<tr>
<td>POLI 342</td>
<td>National Security Policies of the United States</td>
</tr>
<tr>
<td>POLI 380</td>
<td>Comparative Politics of Developing Countries</td>
</tr>
<tr>
<td>POLI 381</td>
<td>Comparative Politics of Industrialized Countries</td>
</tr>
<tr>
<td>POLI 391</td>
<td>Topics in Political Science</td>
</tr>
<tr>
<td>POLI 416</td>
<td>Revolution and Political Violence</td>
</tr>
<tr>
<td>POLI 417</td>
<td>Theories of War in International Relations</td>
</tr>
<tr>
<td>POLI 420</td>
<td>International Law</td>
</tr>
<tr>
<td>POLI 421</td>
<td>Law and Contemporary International Problems</td>
</tr>
</tbody>
</table>
POLI 430  Ideology and World Politics
POLI 432  Nationalism and Ethnicity in World Politics
POLI 433  Economic Aspects of International Politics
POLI 437  International Relations of Latin America
POLI 440  Russian Foreign Policy
POLI 443  International Relations of East Asia and the Pacific
POLI 444  International Relations in Japan
POLI 445  Political Economy of Africa’s Regions
POLI 446  International Relations of Africa
POLI 447  Foreign Policies of Selected Powers
POLI 448  Politics and Government of China
POLI 449  International Relations of the Middle East
POLI 480  Politics and Government of Russia
POLI 481  Politics and Governments of Europe
POLI 483  Middle East Politics
POLI 487  Politics and Governments of Africa
POLI 488  Politics and Governments of Latin America
POLI 489  Politics and Government of Japan

Total Credit Hours 18

Note: The content of each minor should reflect the student’s interests and career aspirations. It should be determined through consultations between the student and the student’s academic advisor. A student may earn a maximum of three (3) hours of minor credit for POLI 379 and/or POLI 399 (internship experience and/or independent study content must be internationally-oriented).

International Studies, B.A.

Learning Outcomes

• International Studies majors will demonstrate knowledge of basic facts, themes, theories and concepts central to the study and understanding of international studies.
• International Studies majors will demonstrate critical writing skills and demonstrate proficiency in the analysis of politics and theories of international politics.
• International Studies majors will develop a comprehensive course of study that permits a clear intellectual focus/specialization and prepares them for careers in the field or for graduate work.
• International Studies majors will demonstrate a clear grasp of the core themes and concepts within the major course concentrations/areas of emphasis they have selected.
• International Studies majors will demonstrate skills in critical thinking and evaluating political data in the analysis of international politics.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>31-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive

Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

• Two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural

Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required for all baccalaureate degrees. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural

Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)
GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- POLI 101

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course primarily focused on U.S. History, HIST 111, HIST 112, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  or
- One Carolina Core GHS-approved course (p. 743) primarily focused on non-U.S. History, HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

3. Program Requirements (31-46 hours)
Supporting Courses (3 hours)
Course Title Credits

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 103</td>
<td>Introduction to Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLI 105</td>
<td>Controversies in Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>POLI 107</td>
<td>Controversies in Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLI 111</td>
<td>Controversies in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLI 121</td>
<td>Green Explorations</td>
<td>3</td>
</tr>
<tr>
<td>POLI 122</td>
<td>Green Engagements</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 3

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.
Electives (10-31 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (27 hours)

A minimum grade of C is required in all major courses.

Major Courses (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 315</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POLI 316</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

Major Electives (21 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 12-15 hours of POLI 300 or above</td>
<td></td>
<td>12-15</td>
</tr>
<tr>
<td>Select 6-9 hours of internationally-oriented non-POLI courses (300-level and above) recommended</td>
<td></td>
<td>6-9</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>18-24</strong></td>
</tr>
</tbody>
</table>

Note: Major coursework should be distributed between one or two subfields (e.g. global environmental studies, U.S. foreign policy, international organizations, etc.). Course selection must be guided and approved by the student’s advisor, and all coursework must be internationally focused.

Intensive Major (36 hours)

A minimum grade of B is required in all major courses.

In addition to the requirements for the General Major, Intensive majors must complete the following:

- An additional 6 hours of International Studies-related courses (approved by the major advisor)
- POLI 499
- Demonstrate proficiency in one foreign language through the intermediate level

Note: Foreign language proficiency will be demonstrated by earning a rating of “Intermediate high” on the ACTFL/ETS examination or a “1+” rating on the Interagency Roundtable (ILR) examination. In those languages for which such testing is not available within a foreign language department, proficiency will be demonstrated by passing with a C or better a minimum of 15 hours of one foreign language.

B.A. with Distinction (36 hours)

Departmental Undergraduate Research Track available to students majoring in International Studies who wish to participate in significant research activities of the major field in collaboration with, or under the supervision of, a faculty mentor.

In addition to the requirements for the General Major, “B.A. with Distinction” majors must complete the following:

Prerequisites
- A minimum GPA of 3.60
- A minimum cumulative GPA of 3.30

Requirements
- POLI 301
- POLI 498
- POLI 499
- Public presentation of the Senior Thesis in a venue approved by the faculty mentor, such as:
  - annual meeting of the South Carolina Political Science Association (or any other annual meeting of the appropriate professional organization)
  - a regular (or special) session of the Political Science Research Workshop
  - sessions scheduled for the Political Science Awards Day activities
  - USC Discovery Day
  - submission to a professional journal
- A written sponsorship agreement from the faculty mentor to be placed on file in the department or college office

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

International Studies, B.A.

Leadership Studies Minor

The Minor in Leadership Studies at the University of South Carolina, housed in the Department of Political Science, prepares students for a lifelong process of leadership development and action. Grounded in a rigorous and multidisciplinary course of study, the minor introduces students to a range of perspectives and models of leadership. These diverse approaches are unified by the goal of providing knowledge and skills that can assist students in promoting positive social change. Academic leadership training combined with the practice of leadership through the myriad of opportunities available at the university provides the foundation for successful leadership development.

A minimum of 18 credit hours is required from the following curriculum, which includes an introductory course, a second course (chosen from one of three core areas: public speaking, organizational/group dynamics, or management), an experiential course, and three courses from at least two of the following four categories: ethics, communication, diversity, and advanced leadership training. Coursework in at least two disciplines is required for the minor. Students must complete minor courses with a grade of ‘C’ or higher. The content of each minor should reflect the
student’s interests and be developed in consultation with the student’s academic advisor. To this end, courses with appropriate content may be substituted with approval from the advisor for the minor. Students may not count a course toward both their Carolina Core requirements and the minor. Students are strongly encouraged to participate in USC Connect and to develop an e-portfolio reflecting their Carolina leadership experience.

**Minor Requirements (18 Hours)**

Hours Required for the Minor: 18

**Introductory Course**

Select one:

- POLI 215
- PCAM 205

**Second Course (3 hours)**

Select a course from one of the following three (Public Speaking, Organizational/Group Dynamics, or Management) areas:

**Public Speaking**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 250</td>
<td>Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 140</td>
<td>Public Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 201</td>
<td>Popular Communication and Public Culture</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 230</td>
<td>Business and Professional Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 330</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 331</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 380</td>
<td>Persuasive Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 464</td>
<td>Speechwriting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Organizational/Group Dynamics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 368</td>
<td>Interest Groups and Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 430</td>
<td>Survey of Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 487</td>
<td>Community Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 311</td>
<td>Ecology of Human Social Systems</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 312</td>
<td>Bureaucracy and Modern Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 354</td>
<td>Collective Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 355</td>
<td>Race and Ethnic Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 370</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 374</td>
<td>Strategic Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 376</td>
<td>Employee Engagement</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 401</td>
<td>Negotiation and Conflict in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 402</td>
<td>Managing Teams in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 403</td>
<td>Leadership in Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Experiential Coursework (3 Hours)**

3 hours from a course approved by advisor that incorporates study abroad, service-learning (minimum of 8 hours of community service), internship, National Student Exchange, extensive reflection on a leadership experience (e.g., EDLP 520 for U101 peer leaders), or domestic “study away.” For students enrolled in a ROTC program, the required ROTC leadership lab satisfies the experiential coursework requirements.

**Additional Courses (9 Hours)**

Select three courses from at least 2 of the following 4 groups:

**Group 1 - Ethics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 313</td>
<td>Ethical Dilemmas in Anthropology</td>
<td>1</td>
</tr>
<tr>
<td>ARMY 301</td>
<td>Advanced Military Decision Making</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 303</td>
<td>Law and Ethics of Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 501</td>
<td>Freedom, Responsibility, and Ethics of the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>NAVY 402</td>
<td>Naval Leadership and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 211</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Medical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 322</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 323</td>
<td>Ethics of Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 324</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 325</td>
<td>Engineering Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 330</td>
<td>Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>POLI 300</td>
<td>Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 514</td>
<td>Ethical Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 527</td>
<td>Virtues, Acts, and Consequences</td>
<td>3</td>
</tr>
<tr>
<td>POLI 504</td>
<td>Politics and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SCHC 433</td>
<td>HNRS: Proseminar in Political Science</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 385</td>
<td>Ethics in Sport and Entertainment Business</td>
<td>3</td>
</tr>
</tbody>
</table>

**Group 2 - Communication**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AERO 301</td>
<td>Air Force Leadership Studies I</td>
<td>4</td>
</tr>
<tr>
<td>AERO 302</td>
<td>Air Force Leadership Studies II</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 355</td>
<td>Language, Culture, and Society</td>
<td>3</td>
</tr>
<tr>
<td>LING 340</td>
<td>Language, Culture, and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 371</td>
<td>Ethnography of Communication</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 555</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>LING 541</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>WGST 555</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 556</td>
<td>Language and Globalization</td>
<td>3</td>
</tr>
<tr>
<td>LING 556</td>
<td>Language and Globalization</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 586</td>
<td>Discourse, Gender and Politics of Emotion</td>
<td>3</td>
</tr>
<tr>
<td>LING 543</td>
<td>Discourse, Gender, and Politics of Emotion</td>
<td>3</td>
</tr>
<tr>
<td>ARMY 201</td>
<td>Fundamentals of Military Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ARMY 301</td>
<td>Advanced Military Decision Making</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 370</td>
<td>Language in the USA</td>
<td>3</td>
</tr>
<tr>
<td>LING 345</td>
<td>Language in the USA</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 455</td>
<td>Language in Society</td>
<td>3</td>
</tr>
<tr>
<td>LING 440</td>
<td>Language in Society</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 462</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 463</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 143</td>
<td>Advanced Business Document Preparation</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 311</td>
<td>Minorities, Women, and the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>WGST 311</td>
<td>Minorities, Women, and the Mass Media</td>
<td>3</td>
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</table>
Group 3 - Diversity

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANTH 349</td>
<td>Anthropology of Work</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 371</td>
<td>Ethnography of Communication</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 381</td>
<td>Gender and Globalization</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 555</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>LING 541</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>ARAB 280</td>
<td>Introduction to Modern Arab Culture</td>
<td>3</td>
</tr>
<tr>
<td>ARMY 401</td>
<td>Leadership and Management Seminar I</td>
<td>4</td>
</tr>
<tr>
<td>ARMY 402</td>
<td>Leadership and Management Seminar II</td>
<td>4</td>
</tr>
<tr>
<td>CHIN 240</td>
<td>Chinese Culture, Tradition, and Modern Societies</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 270</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 300</td>
<td>What is Comparative Literature</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 301</td>
<td>Great Books of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 302</td>
<td>Great Books of the Western World II</td>
<td>3</td>
</tr>
<tr>
<td>CPLT 415</td>
<td>Topics in Comparative Literary Relations</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 455</td>
<td>Language in Society</td>
<td>3</td>
</tr>
<tr>
<td>FREN 295</td>
<td>Topics in French Culture</td>
<td>3</td>
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<tr>
<td>GEOG 121</td>
<td>Globalization and World Regions</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 210</td>
<td>Peoples, Places, and Environments</td>
<td>3</td>
</tr>
<tr>
<td>GERM 280</td>
<td>German Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 329</td>
<td>Modern and Contemporary Britain</td>
<td>3</td>
</tr>
<tr>
<td>HIST 338</td>
<td>Modern Germany</td>
<td>3</td>
</tr>
<tr>
<td>HIST 347</td>
<td>The Middle East in Modern Times</td>
<td>3</td>
</tr>
<tr>
<td>HIST 349</td>
<td>The Contemporary Middle East and North Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 354</td>
<td>Modern East Asia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 379</td>
<td>Women in Modern Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 386</td>
<td>Islamic Institutions and Traditions</td>
<td>3</td>
</tr>
<tr>
<td>RELG 354</td>
<td>Islamic Institutions and Traditions</td>
<td>3</td>
</tr>
<tr>
<td>HIST 421</td>
<td>Modern Latin America</td>
<td>3</td>
</tr>
<tr>
<td>LASP 342</td>
<td>Modern Latin America</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 423</td>
<td>Cross-Cultural Behavior and Negotiations</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 400</td>
<td>Contemporary Italian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>JAPA 240</td>
<td>Introduction to Japanese Culture</td>
<td>3</td>
</tr>
<tr>
<td>JAPA 340</td>
<td>Introduction to Japanese Culture and Literature</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 311</td>
<td>Minorities, Women, and the Mass Media</td>
<td>3</td>
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<tr>
<td>LASP 311</td>
<td>Latin American Cultures</td>
<td>3</td>
</tr>
<tr>
<td>LASP 315</td>
<td>South American Indian Cultures</td>
<td>3</td>
</tr>
<tr>
<td>LASP 351</td>
<td>Politics and Governments of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>POLI 305</td>
<td>Race, Class, Gender, and Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 304</td>
<td>Race, Class, Gender, and Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>POLI 307</td>
<td>Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>POLI 352</td>
<td>Gender and Politics</td>
<td>3</td>
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<tr>
<td>POLI 353</td>
<td>Introduction to U.S. Racial and Ethnic Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLI 364</td>
<td>African-American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLI 402</td>
<td>African American Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>POLI 432</td>
<td>Nationalism and Ethnicity in World Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLI 454</td>
<td>Women and the Law</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 440</td>
<td>Survey of Personality</td>
<td>3</td>
</tr>
<tr>
<td>RELG 207</td>
<td>Introduction to African American Religions</td>
<td>3</td>
</tr>
<tr>
<td>RELG 343</td>
<td>Religions of the African Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>RELG 351</td>
<td>Yoga: The Art of Spiritual Transformation</td>
<td>3</td>
</tr>
<tr>
<td>RELG 352</td>
<td>Religions of East Asia</td>
<td>3</td>
</tr>
<tr>
<td>RELG 210</td>
<td>Introduction to Hinduism</td>
<td>3</td>
</tr>
<tr>
<td>RELG 220</td>
<td>Introduction to Buddhism</td>
<td>3</td>
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<tr>
<td>RELG 250</td>
<td>Introduction to Islam</td>
<td>3</td>
</tr>
<tr>
<td>RELG 201</td>
<td>Religion and Culture</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 280</td>
<td>Introduction to Russian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 301</td>
<td>Sex and Gender</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 309</td>
<td>An Introduction to Social Inequality</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 355</td>
<td>Race and Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 331</td>
<td>Diversity and Social Justice in Contemporary Society</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 375</td>
<td>Special Topics in Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 485</td>
<td>Women's Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 486</td>
<td>African-American Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 570</td>
<td>Special Topics in Global Sport</td>
<td>3</td>
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</table>

Total Credit Hours: 208

Group 4 - Advanced Leadership Development

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AERO 301</td>
<td>Air Force Leadership Studies I</td>
<td>4</td>
</tr>
<tr>
<td>AERO 302</td>
<td>Air Force Leadership Studies II</td>
<td>4</td>
</tr>
<tr>
<td>ARMY 302</td>
<td>Applied Military Leadership</td>
<td>4</td>
</tr>
<tr>
<td>ARMY 401</td>
<td>Leadership and Management Seminar I</td>
<td>4</td>
</tr>
<tr>
<td>ARMY 402</td>
<td>Leadership and Management Seminar II</td>
<td>4</td>
</tr>
<tr>
<td>IBUS 423</td>
<td>Cross-Cultural Behavior and Negotiations</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 303</td>
<td>Law and Ethics of Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 250</td>
<td>Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>
Political Science Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 101</td>
<td>Introduction to Global Politics</td>
<td>3</td>
</tr>
<tr>
<td>or POLI 201</td>
<td>American National Government</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Additional Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 15 hours of POLI courses numbered 300 and above</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Note: The content of each minor should reflect the student’s interests and career aspirations. It should be determined through consultations between the student and the student’s academic advisor. A student may earn a maximum of three (3) hours of minor credit for POLI 379 and/or POLI 399.

Political Science, B.A.

Learning Outcomes

- Political Science majors will demonstrate knowledge of basic facts, themes, theories and concepts central to the study and understanding of politics.
- Political Science majors will demonstrate critical writing skills and demonstrate proficiency in the analysis of politics and theories of politics.
- Political Science majors will demonstrate skills in critical thinking and evaluating political data in the analysis of politics.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>31-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI (p. 743) laboratory science courses
GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- POLI 201

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible
Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- OR
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

3. Program Requirements (31-46 hours)
Supporting Courses (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 101</td>
<td>Introduction to Global Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLI 103</td>
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<td></td>
</tr>
<tr>
<td>POLI 105</td>
<td>Introduction to Politics</td>
<td></td>
</tr>
<tr>
<td>POLI 107</td>
<td>Controversies in Political Theory</td>
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</tr>
<tr>
<td>POLI 109</td>
<td>Controversies in Public Policy</td>
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</tr>
<tr>
<td>POLI 111</td>
<td>Controversies in American Politics</td>
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<tr>
<td>POLI 121</td>
<td>Green Explorations</td>
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</tr>
<tr>
<td>POLI 122</td>
<td>Green Engagements</td>
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</tbody>
</table>

Total Credit Hours 3

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed
courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

**Electives (10-31 hours)**

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Note: 1-22 hours of electives will be needed to reach hours to graduate and Program Requirements will range from 22-37 hours, if completing either the Intensive Major or the B.A. with Distinction in Political Science.

4. Major Requirements (27 hours)

A minimum grade of C is required in all major courses.

**Major Courses (9 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Select one course from three of the following fields:</td>
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American Politics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>POLI 305</td>
<td>Race, Class, Gender, and Sexuality</td>
<td></td>
</tr>
<tr>
<td>POLI 350</td>
<td>Public Opinion and Politics</td>
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</tr>
<tr>
<td>POLI 352</td>
<td>Gender and Politics</td>
<td></td>
</tr>
<tr>
<td>POLI 357</td>
<td>Film, Politics, and Social Change</td>
<td></td>
</tr>
<tr>
<td>POLI 360</td>
<td>American Political Parties</td>
<td></td>
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<tr>
<td>POLI 361</td>
<td>Elections and Voting Behavior</td>
<td></td>
</tr>
<tr>
<td>POLI 362</td>
<td>Politics and the Mass Media</td>
<td></td>
</tr>
<tr>
<td>POLI 363</td>
<td>Southern Politics</td>
<td></td>
</tr>
<tr>
<td>POLI 364</td>
<td>African-American Politics</td>
<td></td>
</tr>
<tr>
<td>POLI 365</td>
<td>State Government</td>
<td></td>
</tr>
<tr>
<td>POLI 368</td>
<td>Interest Groups and Social Movements</td>
<td></td>
</tr>
<tr>
<td>POLI 406</td>
<td>The State of American Politics</td>
<td></td>
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<tr>
<td>POLI 450</td>
<td>Constitutional Law</td>
<td></td>
</tr>
<tr>
<td>POLI 451</td>
<td>Constitutional Law</td>
<td></td>
</tr>
<tr>
<td>POLI 452</td>
<td>The Judicial Process</td>
<td></td>
</tr>
<tr>
<td>POLI 454</td>
<td>Women and the Law</td>
<td></td>
</tr>
<tr>
<td>POLI 462</td>
<td>The Legislative Process</td>
<td></td>
</tr>
<tr>
<td>POLI 463</td>
<td>The American Chief Executive</td>
<td></td>
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<tr>
<td>POLI 465</td>
<td>Psychology and Politics</td>
<td></td>
</tr>
<tr>
<td>POLI 470</td>
<td>Federalism and Intergovernmental Relations</td>
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Comparative Politics:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>POLI 477</td>
<td>Green Politics</td>
<td></td>
</tr>
<tr>
<td>POLI 554</td>
<td>Law and Society</td>
<td></td>
</tr>
<tr>
<td>POLI 567</td>
<td>American Local Government</td>
<td></td>
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<tr>
<td>POLI 569</td>
<td>State and Local Government</td>
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<tr>
<td>POLI 570</td>
<td>South Carolina Government and Politics</td>
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International Relations:

<table>
<thead>
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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>POLI 315</td>
<td>International Relations</td>
<td></td>
</tr>
<tr>
<td>POLI 330</td>
<td>International Organization</td>
<td></td>
</tr>
<tr>
<td>POLI 340</td>
<td>The Conduct and Formulation of United States Foreign Policy</td>
<td></td>
</tr>
<tr>
<td>POLI 341</td>
<td>Contemporary United States Foreign Policy</td>
<td></td>
</tr>
<tr>
<td>POLI 342</td>
<td>National Security Policies of the United States</td>
<td></td>
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<tr>
<td>POLI 417</td>
<td>Theories of War in International Relations</td>
<td></td>
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<tr>
<td>POLI 420</td>
<td>International Law</td>
<td></td>
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<tr>
<td>POLI 430</td>
<td>Ideology and World Politics</td>
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<td>POLI 432</td>
<td>Nationalism and Ethnicity in World Politics</td>
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<tr>
<td>POLI 433</td>
<td>Economic Aspects of International Politics</td>
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<tr>
<td>POLI 437</td>
<td>International Relations of Latin America</td>
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<tr>
<td>POLI 440</td>
<td>Russian Foreign Policy</td>
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<td>POLI 443</td>
<td>International Relations of East Asia and the Pacific</td>
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<td>POLI 444</td>
<td>International Relations in Japan</td>
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<tr>
<td>POLI 445</td>
<td>Political Economy of Africa's Regions</td>
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<td>POLI 446</td>
<td>International Relations of Africa</td>
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<td>POLI 447</td>
<td>Foreign Policies of Selected Powers</td>
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<tr>
<td>POLI 449</td>
<td>International Relations of the Middle East</td>
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Political Theory:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>POLI 302</td>
<td>Classical and Medieval Political Theory</td>
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<tr>
<td>POLI 303</td>
<td>Modern Political Theory</td>
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<td>POLI 304</td>
<td>Contemporary Political Theory</td>
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<td>POLI 307</td>
<td>Feminist Theory</td>
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<td>POLI 400</td>
<td>Selected Topics in Political Theory</td>
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<td>POLI 401</td>
<td>Selected Thinkers in Political Theory</td>
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<td>POLI 402</td>
<td>African American Political Thought</td>
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<td>POLI 404</td>
<td>Democratic Theory</td>
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<td>POLI 503</td>
<td>American Political Thought</td>
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<td>POLI 504</td>
<td>Politics and Ethics</td>
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<tr>
<td>POLI 505</td>
<td>Utopian Political Thought</td>
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Public Administration:

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<th>Title</th>
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<tr>
<td>POLI 370</td>
<td>Introduction to Public Administration</td>
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</tr>
<tr>
<td>POLI 371</td>
<td>Politics of Taxing and Spending</td>
<td></td>
</tr>
</tbody>
</table>
Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Political Science, B.A.

Psychology

Department Website (http://www.psych.sc.edu/)

Jane Roberts, Interim Chair

The Department of Psychology offers two undergraduate degrees. Students may elect a program leading to either the Bachelor of Arts or Bachelor of Science degree in experimental psychology.

Entrance Requirements

Lower Division

In order to be admitted into the Department of Psychology, freshmen and transfer students must meet all University and college admission requirements. Transfer students must meet all such requirements and have a GPA of 2.25 or better. Acceptance into the department with a lower-division classification does not guarantee progression into the upper-division psychology major.

Upper Division

Progression into the upper division is based on the successful completion of all lower-division criteria.

Progression Requirements

Lower Division

All students enter the lower division when the psychology major is declared.

Requirements

1. Complete PSYC 101 and PSYC 226 with a grade of C or better.
2. Attain a 2.25 cumulative GPA.
3. The preceding lower-division requirements must be met by the completion of the first 30 credit hours as a declared psychology major. If at that time the student has not met the requirements, the student must select another major.

Regulations

1. Ineligible to enroll in 500-level and higher courses.
2. May repeat psychology major courses only once to earn the required grade of C or better.

Upper Division

Students enter the upper division in one of two ways:

1. Successfully complete lower-division requirements within the first 30 credit hours as a declared psychology major.
2. May be placed in with a cumulative GPA of 2.25 or higher and have earned grades of C or better in both PSYC 101 and PSYC 226 or equivalents.

Regulations
1. Maintain a cumulative GPA of 2.00 or be subject to academic probation. If a 2.00 cumulative GPA has not been attained by the completion of the probationary term, the student must select another major.
2. May repeat psychology major courses only once to earn the required grade of C or better.
3. Students may attempt PSYC 227 and PSYC 228 two times each. If after the second attempt a student has not earned a grade of C or higher, the student will be removed from the major.
4. May enroll in 500-level and higher courses if the prerequisites have been completed.

Programs
• Psychology Minor (p. 205)
• Experimental Psychology, B.A. (p. 205)
• Experimental Psychology, B.S. (p. 207)

Courses
PSYC 101 - Introduction to Psychology (3 Credits)
An introduction to and survey of the basic concepts and findings within the field of psychology.
Carolina Core: GSS

PSYC 103 - Psychology of Adjustment (3 Credits)
Introduction to theories and processes underlying and facilitating human adjustment in the community, family, and workplace.

PSYC 226 - Research Methods in Psychology (3 Credits)
Basic principles and methodology.
Prerequisites: PSYC 101 or SCHC 130.
Graduation with Leadership Distinction: GLD: Research

PSYC 227 - Psychological Statistics (3 Credits)
Introduction to statistical methods essential for psychological research.
Prerequisites: PSYC 226 and MATH 111 or placement out of MATH 111.

PSYC 228 - Laboratory in Psychology (2 Credits)
Laboratory in psychology in which research methods and statistical methods are integrated. One lecture and one two-hour laboratory per week.
Prerequisites: PSYC 226 and PSYC 227.

PSYC 300 - Human Sexual Behavior (3 Credits)
Psychological, physiological, and sociological factors of human sexual behavior and attitudes.

PSYC 301 - Psychology of Marriage (3 Credits)
The psychological, physiological, and social characteristics of marriage.
Cross-listed course: WGST 301
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PSYC 310 - Psychology of Women (3 Credits)
Women’s experiences: childhood and adolescence, work, family, cultural images, adjustment, and social change.
Cross-listed course: WGST 310
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PSYC 320 - Psychology of Religion (3 Credits)
The development of the religious consciousness and its various expressions, the psychological dynamics of growth and conversion, response to crisis, and the relation of spiritual practice to health and wholeness.
Cross-listed course: RELG 361

PSYC 330 - Psychology and the African-American Experience (3 Credits)
Psychological theory and research as it applies to African Americans. Explores Africentric and other perspectives and roles of culture, racism, and historical phenomena.
Cross-listed course: AFAM 330
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PSYC 350 - Industrial Psychology (3 Credits)
Psychological techniques applied to various industrial problem areas, such as management and supervision, morale, efficiency, training, personnel selection and placement, and relations among personnel.

PSYC 360 - Applied Psychology (3 Credits)
Uses of psychological knowledge and techniques in practical contexts; clinical, school, industrial, consumer, and environmental psychology.

PSYC 370 - Psychology of Consciousness (3 Credits)
Theories, controversies, and research findings on the nature of various states of consciousness; topics such as sleep/dreams, hypnotis, drug-induced states, and psychic phenomena.

PSYC 380 - Sport Psychology (3 Credits)
The role of sports in socialization, personality development and competence, including: spectator-performer interactions, motivation, competition effects; and the application of psychological techniques to performance enhancement.

PSYC 399 - Independent Study (1-6 Credits)
Closely supervised project or research experience in psychology. Approved contract required. May be repeated for up to six credits. Not for psychology major credit.
Prerequisites: PSYC 101.
Graduation with Leadership Distinction: GLD: Research

PSYC 400 - Survey of Learning and Memory (3 Credits)
Research and applications concerning the acquisition of new behavior and knowledge, including accounts based on classical and instrumental conditioning and on information-processing models.
Prerequisites: PSYC 101 or SCHC 130.

PSYC 405 - Cognitive Psychology (3 Credits)
Research and theories on sensory memory, attention, short-term and working memory, human learning and forgetting, imagery, long-term memory, speech perception, reading, language, thinking and problem solving, and decision making.

PSYC 410 - Behavioral and Mental Disorders (3 Credits)
Covers the classification, diagnosis, etiological theories, and treatments of the major mental and emotional disorders.
Prerequisites: PSYC 101 or SCHC 130.

PSYC 420 - Survey of Developmental Psychology (3 Credits)
Psychological development from conception to late adulthood. Topics include physical, cognitive, and social processes associated with development at each stage of the life cycle.
Prerequisites: PSYC 101 or EDPY 335 or SCHC 130.
PSYC 430 - Survey of Social Psychology (3 Credits)
Introduction to theory and research in social psychology from a psychological viewpoint. Topics include social perception, social cognition, attitudes, interpersonal relationships, aggression, prosocial behavior, and group processes.
Prerequisites: PSYC 101 or SCHC 130.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PSYC 432 - Men and Masculinity (3 Credits)
This course provides an overview of psychological, social, physical, and emotional issues related to men's lives. Major topics include: gender construction, men and work, men and health, men in relationships, male sexualities, men in families, and masculinities in the media and popular culture.
PSYC 440 - Survey of Personality (3 Credits)
Covers the major theories and research on personality and the dynamics of human motivation.
Prerequisites: PSYC 101 or SCHC 130.

Graduation with Leadership Distinction: GLD: Research

PSYC 450 - Sensation and Perception (3 Credits)
Processing of information from the environment. Physiological, physical, psychological, and contextual determinants of perception.
Prerequisites: PSYC 101 or SCHC 130.

PSYC 455 - Introduction to Neuroscience (3 Credits)
Function of the brain including basic neuroanatomy, neurophysiology and neurochemistry, neural systems, and psychopharmacology as it relates to behavior.

PSYC 460 - Brain and Behavior (3 Credits)
How the brain mediates simple and complex behavior and how we can apply basic research about the brain to real world problems.
Prerequisites: PSYC 101 or SCHC 130.

PSYC 465 - Health Psychology (3 Credits)
Application of psychological theories and assessment and treatment methodologies for health maintenance and the diagnosis and treatment of illness.
Prerequisites: PSYC 101 or SCHC 130

PSYC 470 - Introduction to Language Sciences (3 Credits)
Introduction to the linguistic component of human cognition. Properties of speech, the organization of language in the mind/brain, cross-linguistic universals, child language acquisition, and aspects of adult language processing.
Cross-listed course: ANTH 373, LING 300

PSYC 474 - Cognitive and Social Aspects of Bilingualism (3 Credits)
Bilingual language development, social and cultural aspects of bilingualism, the bilingual brain, bilingualism throughout the lifespan.

PSYC 475 - Survey of Clinical Psychology (3 Credits)
The scientific basis of clinical psychology. Topics include history, theory, research, ethics, and best practices. For students interested in graduate school in psychology or other mental health professions.
Prerequisites: B or better in PSYC 228 and PSYC 410.

PSYC 480 - Multi-Cultural Psychology (3 Credits)
This course provides an introduction to theories and research in the study of psychosocial issues of racial, ethnic and cultural groups.
Prerequisites: PSYC 101.

PSYC 487 - Community Psychology (3 Credits)
Application of knowledge from other areas of psychology to the study of the role of the individual in the community.
Prerequisites: PSYC 101 or SCHC 130 and at least 3 hours in psychology at 400 level or above.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Research

PSYC 489 - Community Psychology Practicum (3 Credits)
Supervised, structured field experience in a community agency, applying psychological principles, theory, and research. May be repeated once for credit.
Prerequisites: 15 hours in psychology.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Internships, GLD: Research

Experiential Learning: Experiential Learning Opportunity

PSYC 495 - Internship in Psychology (1-6 Credits)
A supervised experiential course in psychology. Contract approved by instructor, advisor, and Office of Academic Programs is required for undergraduate students.
Prerequisites: C or better in PSYC 226.

PSYC 498 - Advanced Independent Study (1-6 Credits)
Closely supervised project or research experience in psychology. Approved contract required. May be repeated for up to six credits.
Prerequisites: 9 hours of psychology.

Graduation with Leadership Distinction: GLD: Research

PSYC 501 - Human Factors Psychology (3 Credits)
Application of research in experimental psychology to ergonomics, the design of human-environment systems, with emphasis on work settings.
Prerequisites: PSYC 101 and 9 hours of upper-level courses all in psychology, business, engineering, or nursing.

PSYC 503 - Psychology of Drug Use and Effects (3 Credits)
Research and theoretical considerations of substance abuse. Pharmacological, sociological, psychological, medical, economic, forensic, and other relevant research and treatment disciplines.
Prerequisites: PSYC 450 or PSYC 455 or PSYC 460.

PSYC 506 - Psychology of Language (3 Credits)
Theories of speech perception, linguistic theories of syntax and semantics, the brain mechanisms underlying language, the development of language in children, and the role of language in thought.
Cross-listed course: LING 567

PSYC 507 - Cognitive Neuroscience (3 Credits)
Research and theories on the role of the brain in facets of cognitive behavior, including attention, short-term and working memory, perception, language, executive function, thinking, and problem solving.
Prerequisites: C or better in PSYC 405, highly recommended PSYC 455 or PSYC 460.

PSYC 510 - Child Behavioral and Mental Disorders (3 Credits)
Theories, description, and assessment of child behavior problems and disorders; methods of intervention.
Prerequisites: PSYC 420 or PSYC 410.

Graduation with Leadership Distinction: GLD: Community Service
PSYC 520 - Psychology of Child Development (3 Credits)
Examination of development from conception through older childhood. Specific cognitive and social processes will be given in-depth study.
Prerequisites: PSYC 420.

PSYC 521 - Psychology of Adolescence (3 Credits)
Theories and research examining social, emotional, and intellectual development in adolescence. Explores influence of family, peer, school, and cultural contexts.
Prerequisites: PSYC 420.

PSYC 522 - Psychology of Early and Middle Adulthood (3 Credits)
Developmental changes in abilities, personality, and behavior which occur between adolescence and old age.
Prerequisites: PSYC 420.

PSYC 523 - Psychology of Aging (3 Credits)
Psychological, social, and biological phenomena associated with maturity and aging.
Prerequisites: PSYC 420.

PSYC 524 - Nature of Students with Mental Retardation (3 Credits)
Nature and causes of mental retardation; behavior and potentialities of persons with mental retardation.
Prerequisites: a course in the areas of child psychology-child development.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

PSYC 525 - The Psychology of the Midlife Woman (3 Credits)
Biological, social, and psychological aspects of the midlife woman.
Cross-listed course: WGST 525
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PSYC 526 - Prevention of Psychological Problems in Children and Youth at Risk (3 Credits)
Etiology, prevention of, and intervention in behavioral, social, emotional, educational, and psychological problems in children and youth at risk.
Prerequisites: PSYC 410 or PSYC 420 or equivalent.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

PSYC 528 - Psychology of Children with Exceptionalities (3 Credits)
Characteristics, causes, needs, and intervention strategies for children with a broad range of exceptionalities including mental, physical, social/ emotional difficulties and atypical gifts and talents.
Prerequisites: PSYC 420 or PSYC 520.

PSYC 529 - Nature of Students with Specific Learning Disabilities (3 Credits)
Children with average/above average intelligence and specific learning impairments; diagnostic and remedial techniques. Offered by both the College of Education and the Department of Psychology.
Prerequisites: EDEX 523 or PSYC 528.

Cross-listed course: EDEX 531

PSYC 530 - Advanced Social Psychology (3 Credits)
Intensive study of topics selected from the field of social psychology.
Prerequisites: PSYC 430.

PSYC 550 - Advanced Sensation and Perception (3 Credits)
Intensive study of topics selected from the field of sensation and perception.
Prerequisites: PSYC 450.

PSYC 560 - Advanced Topics in Neuroscience (3 Credits)
Intensive study of topics selected from the field of neuroscience.
Prerequisites: PSYC 455 or PSYC 460.

PSYC 565 - Psychology of Physical Activity (3 Credits)
Introduction to psychosocial factors in physical activity. Topics include mental health effects of exercise, behavior change theories applied to physical activity, and physical activity determinants and interventions.
Prerequisites: PSYC 101, PSYC 228.

PSYC 570 - Neuroscience Laboratory (3 Credits)
Practice in surgical, histological, and behavioral testing methodology. Two lectures and one three-hour laboratory per week.
Prerequisites: PSYC 460.

PSYC 571 - Cognitive Neuroscience Laboratory (3 Credits)
Methods of observation and experimentation in cognitive neuroscience. Two lectures and one three-hour laboratory per week.
Prerequisites: PSYC 227 and C or better in two courses from PSYC 405, PSYC 450, PSYC 455, PSYC 460, or PSYC 507.

Prerequisite or Corequisite: one course from PSYC 400, PSYC 405, PSYC 450, PSYC 455, or PSYC 460.

PSYC 572 - Cognitive Psychology Laboratory (3 Credits)
Practice in the experimental techniques used in the study of cognitive psychology. Two lectures and one three-hour laboratory per week.
Prerequisite or Corequisite: PSYC 405.

PSYC 574 - Sensation and Perception Laboratory (3 Credits)
Concepts and principles in the study of sensation and perception in the laboratory. Two lectures and one three-hour laboratory per week.
Prerequisite or Corequisite: PSYC 450.

PSYC 575 - Developmental Psychology Laboratory (3 Credits)
Methods of observation and experimentation on human psychological development. Two lectures and one three-hour laboratory per week.
Prerequisites: PSYC 226 and PSYC 227.

Prerequisite or Corequisite: PSYC 420 or PSYC 520.

PSYC 580 - Intermediate Statistics for Psychologists (3 Credits)
Advanced analysis of the uses and applications of statistics to research in psychology, and interpretation of statistics in the psychological literature.
Prerequisites: B or better in PSYC 227.

PSYC 583 - Psychological Tests and Measurement (3 Credits)
Introduction to the theory and practice of measuring psychological attributes. Emphasis on test construction in a laboratory setting. Hands-on experience in designing, administering, and analyzing psychological tests and measures.
Prerequisites: B or better in PSYC 227 and PSYC 228.

PSYC 584 - History and Systems of Psychology (3 Credits)
Systematic approaches to psychology.
Prerequisites: 9 hours in psychology at 400 level or above.
PSYC 585 - Advanced General Psychology (3 Credits)
Review and integration of general principles of psychology. Primarily for students planning graduate study in psychology.
Prerequisites: 12 hours in psychology courses numbered above 300.

PSYC 589 - Selected Topics in Psychology (3 Credits)
Course content varies and will be announced in the schedule of classes by title.

PSYC 598 - Individual Research (3 Credits)
Planning and execution of supervised research in psychology. Approved contract required.
Prerequisites: 15 hours of psychology.

PSYC 599 - Individual Research (3 Credits)
Planning and execution of supervised research in psychology. Approved contract required.
Prerequisites: 15 hours of psychology.

Psychology Minor
Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology ¹</td>
<td>3</td>
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Elective Courses
Select three of the following:

<table>
<thead>
<tr>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PSYC 400</td>
<td>Survey of Learning and Memory</td>
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</tr>
<tr>
<td>PSYC 405</td>
<td>Cognitive Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 410</td>
<td>Behavioral and Mental Disorders</td>
<td></td>
</tr>
<tr>
<td>PSYC 420</td>
<td>Survey of Developmental Psychology</td>
<td></td>
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<tr>
<td>PSYC 430</td>
<td>Survey of Social Psychology</td>
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<tr>
<td>PSYC 440</td>
<td>Survey of Personality</td>
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<tr>
<td>PSYC 450</td>
<td>Sensation and Perception</td>
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<tr>
<td>PSYC 460</td>
<td>Brain and Behavior</td>
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</tbody>
</table>

Additional Courses
Select an additional two courses from PSYC 200 or above

Total Credit Hours 18

¹ May not be used to fulfill social science requirement and also minor requirement.

Note: Students may not apply more than one course from the following courses toward their minor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
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<tr>
<td>PSYC 399</td>
<td>Independent Study</td>
<td>1-6</td>
</tr>
<tr>
<td>PSYC 489</td>
<td>Community Psychology Practicum</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 498</td>
<td>Advanced Independent Study</td>
<td>1-6</td>
</tr>
<tr>
<td>PSYC 598</td>
<td>Individual Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 599</td>
<td>Individual Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Experimental Psychology, B.A.

Learning Outcomes

* Students will develop a working knowledge of psychology content domains
* Students will describe applications of psychology
* Students will use scientific reasoning to interpret psychological phenomena
* Students will demonstrate psychology information literacy.
* Students will interpret design and conduct basic psychological research.
* Students will demonstrate effective writing for different purposes.
* Students will exhibit effective presentation skills for different purposes.
* Students will develop meaningful professional direction for life after graduation.
* Students will apply ethical standards to evaluate psychological science and practice.
* Students will adopt values that build community at local national and global levels.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

Requirements Credit Hours
1. Carolina Core 32-44
2. College Requirements 15-18
3. Program Requirements 26-41
4. Major Requirements 32

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher
2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
• only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or

• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

• Three hours of Social Science
• Nine hours of Fine Arts or Humanities

3. Program Requirements (26-41 hours)

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed
courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

4. Major Requirements (32 hours)

A minimum grade of C is required in all major courses.

Students planning a major in psychology are advised to take basic science credits in biology and chemistry or physics. This is especially important for those contemplating graduate work.

Major Courses (20 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 226</td>
<td>Research Methods in Psychology</td>
<td>3</td>
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<td>PSYC 227</td>
<td>Psychological Statistics</td>
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</tr>
<tr>
<td>PSYC 228</td>
<td>Laboratory in Psychology</td>
<td>2</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
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<tr>
<td>PSYC 400</td>
<td>Survey of Learning and Memory</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 405</td>
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<tr>
<td>PSYC 503</td>
<td>Psychology of Drug Use and Effects</td>
<td></td>
</tr>
</tbody>
</table>

Major Electives (12 hours)

- Select 3 hours from PSYC 300 or above
- Select 6 hours from PSYC 400 or above
- Select 3 hours from PSYC 501 or above

Note: A maximum of 6 hours of independent study (PSYC 498), individual research (PSYC 598, PSYC 599), and/or practicum (PSYC 489) courses may apply as major credit and are recommended during the junior/senior year. Students may not receive major credit for both PSYC 455 and PSYC 460.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Experimental Psychology, B.A.

Experimental Psychology, B.S.

Learning Outcomes

- Students will describe key concepts principles and overarching themes in psychology
- Students will develop a working knowledge of psychology content domains
- Students will describe applications of psychology
- Students will use scientific reasoning to interpret psychological phenomena
- Students will demonstrate psychology information literacy.
- Students will interpret design and conduct basic psychological research.
- Students will demonstrate effective writing for different purposes.
- Students will exhibit effective presentation skills for different purposes.
- Students will develop meaningful professional direction for life after graduation.
- Students will apply ethical standards to evaluate psychological science and practice.
- Students will adopt values that build community at local national and global levels.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of
Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements (32-44 hours)</td>
<td></td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>29-47</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>32</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*must be passed with a grade of C or higher*

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- MATH 141 or MATH 122
- MATH 142 or MATH 170 or MATH 172

SCI – Scientific Literacy (8 hours)

- BIOL 110 or 1 Lab Science that studies the animal kingdom
- Any 4-credit hour CC-SCI course (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

*must be passed with a grade of C or higher*

- PSYC 101

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1. Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

- STAT 201 (or equivalent) or higher
- CSCE 102 (or equivalent) or higher

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.
Social Science and Fine Arts or Humanities (6 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Three hours of Fine Arts or Humanities

3. Program Requirements (29-47 hours)
Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (8-29 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (32 hours)
A minimum grade of C is required in all major courses.

Students planning a major in psychology are advised to take basic science credits in biology and chemistry or physics. This is especially important for those contemplating graduate work.

Major Courses (23 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYC 226</td>
<td>Research Methods in Psychology</td>
<td>3</td>
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<td>PSYC 227</td>
<td>Psychological Statistics</td>
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<td>PSYC 228</td>
<td>Laboratory in Psychology</td>
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<td></td>
<td>Select one of the following:</td>
<td>3</td>
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<td>PSYC 405</td>
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<td>Select one of the following:</td>
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</tr>
<tr>
<td>PSYC 420</td>
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<td>Select one of the following:</td>
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<td>Psychology of Drug Use and Effects</td>
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<tr>
<td>PSYC 507</td>
<td>Cognitive Neuroscience</td>
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<td></td>
<td>Select one Advanced Laboratory course of the following:</td>
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<tr>
<td>PSYC 570</td>
<td>Neuroscience Laboratory</td>
<td></td>
</tr>
<tr>
<td>PSYC 571</td>
<td>Cognitive Neuroscience Laboratory</td>
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<td>PSYC 572</td>
<td>Cognitive Psychology Laboratory</td>
<td></td>
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<tr>
<td>PSYC 574</td>
<td>Sensation and Perception Laboratory</td>
<td></td>
</tr>
<tr>
<td>PSYC 575</td>
<td>Developmental Psychology Laboratory</td>
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<tr>
<td>PSYC 598</td>
<td>Individual Research</td>
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<tr>
<td>PSYC 599</td>
<td>Individual Research</td>
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<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

Major Electives (9 hours)

- Select 3 hours from PSYC 300 or above
- Select 6 hours from PSYC 400 or above

Note: A maximum of 6 hours of independent study (PSYC 498), individual research (PSYC 598, PSYC 599), and/or practicum (PSYC 489) courses may apply as major credit and are recommended during the junior/senior year. Students may not receive major credit for both PSYC 455 and PSYC 460.
Major Map

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Experimental Psychology, B.S.

Religious Studies

Department Website (http://www.cas.sc.edu/relg/)

Michael Dickson, Interim Chair

The Department of Religious Studies offers a Bachelor of Arts degree with the option for an intensive major, which has potential for a degree “With Distinction in Religious Studies” upon graduation. The department offers both a major and a minor in religious studies for students seeking a broad liberal arts education focused on the study of a range of complex issues. Students engage in a dynamic, multi-disciplinary investigation that involves insights from fields such as anthropology, history, philosophy, sociology, and theology. Most of all, however, the program of study embraces critical and careful thinking, honesty analysis, and an openness to learning about new ideas.

Programs

- Religious Studies Minor (p. 213)
- Religious Studies, B.A. (p. 213)

Courses

RELG 101 - Exploring Religion (3 Credits)
Beliefs and practices of the world’s religions and the methods scholars use to study them.

Carolina Core: GSS

RELG 120 - Comparative Religion (3 Credits)
Issues, theories, and debates that shape global religious traditions, cultures, and communities; examination of historical contexts and development, applying social scientific inquiry and methods to analyze relevant current circumstances and concerns.

RELG 201 - Religion and Culture (3 Credits)
Exploration of the dynamic relationships between selected religions and cultures.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

RELG 202 - Introduction to Reason and Faith (3 Credits)
Critical study of the intellectual strands leading to Western disconnections between reason and faith; the search for balance between belief and reason with emphasis on contemporary developments.

RELG 204 - Introduction to Religions in America (3 Credits)
The diversity of religious traditions in America.

RELG 205 - Morality, Ethics, and Religion (3 Credits)
Values and ethics as developed, contested, and transmitted through a variety of religious practices.

Carolina Core: VSR

RELG 206 - History of the Devil (3 Credits)
A survey of the beliefs and practices associated with the demonic and the Devil from c. 500 B.C.E. to the 20th century.

Cross-listed course: HIST 215

RELG 207 - Introduction to African American Religions (3 Credits)
The variety of religious traditions of African Americans, with emphasis on the contexts in which they developed.

Cross-listed course: AFAM 207

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

RELG 208 - Biblical Archaeology (3 Credits)
The fundamental elements of human culture as it relates to biblical archaeology. The defining characteristics of different kinds of society through interdependency of language and culture. The affects of modern world interests in defining / redefining this area.

Cross-listed course: ANTH 226

RELG 210 - Introduction to Hinduism (3 Credits)
An interdisciplinary examination of the complexity of the Hindu religious and philosophical traditions covering such topics as deity, self, cosmos, body ritual, karma, and yoga.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 211 - Introduction to Buddhism (3 Credits)
An introduction to Buddhism from a social historical perspective that examines Buddhist religious goals and practices in the local contexts of India, Sri Lanka, Tibet, China, and Japan.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 212 - Introduction to Hinduism (3 Credits)
An interdisciplinary examination of the complexity of the Hindu religious and philosophical traditions covering such topics as deity, self, cosmos, body ritual, karma, and yoga.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 213 - Ethics and the Good Life in Asian Religions (3 Credits)
Fundamental questions of ethical and moral inquiry in the religious traditions of Asia.

RELG 214 - Introduction to Buddhism (3 Credits)
An introduction to Buddhism from a social historical perspective that examines Buddhist religious goals and practices in the local contexts of India, Sri Lanka, Tibet, China, and Japan.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 215 - Introduction to Hinduism (3 Credits)
An interdisciplinary examination of the complexity of the Hindu religious and philosophical traditions covering such topics as deity, self, cosmos, body ritual, karma, and yoga.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 216 - Introduction to Buddhism (3 Credits)
An introduction to Buddhism from a social historical perspective that examines Buddhist religious goals and practices in the local contexts of India, Sri Lanka, Tibet, China, and Japan.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences
RELG 261 - Global Human Religiosity (3 Credits)
The human experience and expression of what it means to be religious.

RELG 270 - Religion and the Arts (3 Credits)
Literary, visual, and/or performance art associated with religious discourse and practice.

Carolina Core: AIU

RELG 291 - Special Topics in Religious Studies (3 Credits)
Special topics in Religious Studies. May be repeated as content varies by title.

RELG 301 - Hebrew Bible (Old Testament) (3 Credits)
Modern study of the Hebrew Bible from historical, literary, and archeological points of view. Reading and analysis of texts in translation. 

Cross-listed course: JSTU 301

RELG 302 - New Testament (3 Credits)
Historical and critical study of the New Testament writings, with emphasis on origins, production, and transmission.

RELG 310 - Paul and the Philosophers (3 Credits)
Paul's teachings and practices, as shown in his letters and how these resemble those of various cultural formations of his time, with emphasis on moral teachings and schools of Hellenistic philosophy.

RELG 311 - Gospel Literature and the Formation of Christianity (3 Credits)
Gospels about Jesus from the 1st and 2nd centuries CE; analysis with attention to canonical texts as well as those not contained in today's major canonical collections; assessment of gospel literature in competing configurations of Christianity during its formative years.

RELG 312 - The Life and Letters of Paul (3 Credits)
A critical study in the life and thought of Paul, his letters to the early Christian churches, his role in the expansion of the Christian movement, and his continuing influence today.

RELG 313 - The Writings of John the Apostle (3 Credits)
Writings of the Apostle John in the context of first century Mediterranean history as well as the changing interpretations over the centuries up to and including current methodologies of academic study of these ancient texts.

RELG 314 - Religion and Culture (3 Credits)
The impact of religion on modern Western culture and, in turn, of culture on religion. Selected topics: Holocaust, Puritanism, fundamentalism, Islam, Freud, "love" wisdom tradition, "civil religion."

RELG 315 - Early Christianity (3 Credits)
Christianity in the 1st through 5th centuries; its formation as seen through the literature of early Christians and their detractors.

RELG 316 - Imagining Jesus: Antiquity to Present (3 Credits)
Conceptions and representations of Jesus in antiquity up to the present, including the gospel traditions as well as literature, art, and film.

RELG 320 - The Greek New Testament (3 Credits)
Readings in the Gospels and Epistles. 

Prerequisites: GREK 121 and GREK 122.

Cross-listed course: GREK 305

RELG 321 - Old Testament Prophets (3 Credits)
Old Testament prophets, the nature of their prophetic experience, their place in the life of ancient Israel, their message, and their continuing theological significance.

RELG 332 - Christian Theology (3 Credits)
Basic Christian teachings concerning God, creation, sin, the person and work of Christ, and life after death.
RELG 350 - Buddhist Stories, Poetry, and Films (3 Credits)
Buddhist stories, poetry, novels, and films from various cultures and times examined for how they creatively convey their religious ideals. Study of great works of Buddhist writing, in English translation, analyzing their techniques and examining how Buddhists use film today for similar aims.

RELG 351 - Yoga: The Art of Spiritual Transformation (3 Credits)
Examination of major South Asian religions—Hinduism, Jainism, Buddhism, and Islam, emphasizing the historical context for changing religious ideals, and the confluence of traditions.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 352 - Religions of East Asia (3 Credits)
Expansion of Buddhism beyond India, development of Confucianism, Taoism, Shinto, and other national religious expressions in China and Japan.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 354 - Islamic Institutions and Traditions (3 Credits)
The religious, political, social and economic institutions and intellectual and scholarly traditions developed by Muslim societies throughout Afro-Eurasia from late antiquity to the present.

Cross-listed course: HIST 386

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 358 - The Qur'an and Hadith (3 Credits)
Intensive study of the Qur'an and Hadith: its major themes and literary quality, with attention to a range of classical and contemporary discourses about the Qur'an, both Islamic and Western.

Graduation with Leadership Distinction: GLD: Global Learning

RELG 359 - Islamic Theology and Philosophical Thought (3 Credits)
Close reading and discussion of primary texts (the Qur'an, Hadith, creeds, classical theological arguments, and modern writings) on major theological problems such as salvation, God, revelation, and religious pluralism.

Graduation with Leadership Distinction: GLD: Global Learning

RELG 361 - Psychology of Religion (3 Credits)
The development of the religious consciousness and its various expressions, the psychological dynamics of growth and conversion, response to crisis, and the relation of spiritual practice to health and wholeness.

Cross-listed course: PSYC 320

RELG 362 - Science, Magic and Religion (3 Credits)
Occultism as a link between science and religion and its central role in Western intellectual and cultural history; the historical development of the science-magic-religion continuum in the Isamo-Christian world from late antiquity to present.

Cross-listed course: HIST 389

RELG 367 - Sufism (3 Credits)
A survey of Islamic mysticism, its foundation in the Quranic revelation doctrines and practices, subsequent development, significance within Islamic civilization, and role in the contemporary world, both Islamic and non-Islamic.

Graduation with Leadership Distinction: GLD: Global Learning

RELG 368 - Messiahs, Mystics and Rebels in the Islamic World (3 Credits)
Representative messianic movements, millenarian visionaries and apocalyptic imaginings in the Islamic world from the 7th century to the present, with attention to related developments in the Jewish and Christian traditions over the last two millennia.

Cross-listed course: HIST 387

RELG 369 - Islamic Law (3 Credits)
Close reading and discussion of primary texts (scriptural, classical, and modern) and accounts of court cases, focuses on one aspect of Islamic law such as equity, violence, authority, or gender.

Graduation with Leadership Distinction: GLD: Global Learning

RELG 372 - Religion and Existentialism (3 Credits)
Existentialist thought as adapted by theologians to interpret religious experience and the biblical message. The movement from philosophical protest against essentialism into imaginative description of existence revealed under stress.

RELG 373 - Literature and Film of the Holocaust (3 Credits)
Film, poetry and literature created in response to the Holocaust as the means for a decades long cultural discussion, in European and American societies, of the moral and religious implications of the Holocaust on our self-understandings as religious and moral beings.

Cross-listed course: JSTU 373

Graduation with Leadership Distinction: GLD: Global Learning

RELG 374 - Religion in the South (3 Credits)

RELG 376 - Holy Women (3 Credits)
Holy women from various periods and religious traditions, and how they demonstrate the different ways communities understand ideas of holiness, from piety, martyrdom, monasticism and mysticism to social action.

Cross-listed course: WGST 376

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

RELG 377 - Religion and Literature (3 Credits)
Classic literary works from one or more religious traditions which have shaped and/or expressed the core ethos of a religious tradition or of the more general human concern for the religious and spiritual; and/or general literature (fiction, poetry, plays, essays, non-fiction) which incorporates religious or spiritual references, ideas, symbolism, allusions.

RELG 381 - Jewish History I: Late Antiquity to 1500 (3 Credits)
The religious, cultural, social, and political conditions that shaped the Jewish experience in the Near East and Europe from late antiquity to 1500.

Cross-listed course: HIST 383, JSTU 381

RELG 382 - Jewish History II: 1500 to the Present (3 Credits)
Case studies of Jewish history in Europe, America, and the land of Israel, 1500 to the present.

Cross-listed course: HIST 384, JSTU 382

RELG 387 - Jews and Muslims (3 Credits)
Jewish-Muslim relations in the Near East and the US; an exploration of Jewish-Muslim encounters, issues of religious law, politics, radical religious ideologies, and their repercussions for today.

Cross-listed course: JSTU 387

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy
RELG 388 - Kabbalah: Science, Religion and Nature in Western History (3 Credits)
Historical investigation of kabbalah, a philosophical system and mystical current common to Judaism, Islam and Christianity, from the medieval period to the present; focus on its formative role in early modern Western cosmology and science, and its ecological implications today.
Cross-listed course: HIST 388, JSTU 388

RELG 390 - Theories of Religion (3 Credits)
A historical overview of major theories and approaches in the academic study of religion.

RELG 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

RELG 410 - Origins of Western Morality (3 Credits)
Greek and Roman ethical theory, its adaptation into Judean and Christian traditions and impact on Western models of morality.

RELG 412 - Faith, Doubt, and God (3 Credits)
Judeo-Christian views of God; modern criticism and contemporary responses.

RELG 471 - Interfaith Dialogues in the 21st Century (3 Credits)
The variety of contemporary discourse on interfaith issues and views of the diversity and range of religions with particular emphasis on global dynamics of religious dialogues.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

RELG 472 - Religion and Science: Human Questions (3 Credits)
Relationships between religion and science, especially considering impacts of mutual responses and questions with respect to human life in the 21st century.

RELG 473 - Religions, Medicines, and Healing (3 Credits)
Inter-relationships between religion, medicines, and healing; examining perspectives and practices, interfaces and influences across cultures.

RELG 474 - Spiritual Lives (3 Credits)
Contemporary and historical life-stories about spiritual or religious figures as presented in various forms such as biography, autobiography, hagiography, art, and/or film; explores both the specific issues within unique accounts and idealized, general models for spiritual lives.

RELG 475 - Visions of Apocalypse (3 Credits)
Symbolic visions, tours of heaven and hell, cosmic battles, divine judgment, messianic figures, prophecy, or other forms of revelation as found in literature, art, or social movements from diverse geographical and historical locations.
Cross-listed course: JSTU 475

RELG 488 - Perspective in Religious Studies (3 Credits)
Build an understanding of the contexts of religious studies; participate in ongoing scholarly discussions; and expand the serious student’s skills in critically analyzing religions.

RELG 491 - Advanced Special Topics in Religious Studies (3 Credits)
Advanced special topics in Religious Studies. May be repeated as content varies by title.

RELG 492 - Special Topics in Research in Religious Studies (1 Credit)
Focused research on special topics in Religious Studies. May be repeated as content varies by title.

RELG 498 - Advanced Project (3 Credits)
A supervised research project or other creative work, required of intensive majors, to be completed in the senior year.
Graduation with Leadership Distinction: GLD: Research

RELG 514 - The Quest of the Historical Jesus (3 Credits)
Examination of studies on the historical Jesus from 1778 to the present. Attention given to the relationship between "the Jesus of history" and "the Christ of faith".

RELG 551 - Tradition and Transformations in Islamic Cultures (3 Credits)
Islam as a dynamic cultural tradition: emphasis on the tension between Islamization and the larger Islamic tradition.
Cross-listed course: ANTH 515
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

RELG 552 - Buddhist Studies Seminar (3 Credits)
The examination of a theme or problem central to the study of Buddhism in a seminar emphasizing intensive reading and creative discussion. Course may be repeated since topics change.

Religious Studies Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RELG 101</td>
<td>Exploring Religion</td>
<td>3</td>
</tr>
<tr>
<td>RELG 120</td>
<td>Comparative Religion</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one RELG course at the 200-level</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select four RELG courses from the 300-level; one course at the 400-level</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Religious Studies, B.A.

Learning Outcomes

- Upon completion of the prerequisite and introductory courses, students should be able to distinguish and discuss various religious traditions and structures of beliefs along with sacred texts and practices which frame, elaborate, and preserve those structures, as well as attention to current scholarship. They should be able to address more issues of greater complexity in the study of religion and religions as social and cultural phenomena. Students’ abilities to critically analyze religious traditions and scholarly discourse should be more refined, informed, and detailed on completion of their degree program as an outcome of the prerequisite and introductory courses.
- Students completing the required number of upper level courses should be able to distinguish multiple approaches to the study of religion(s), differentiate the various ways in which religious ideas establish social values and expectations, elaborate a range of foundational cultural and social structures from a variety of different global regions, and skillfully discuss the religious roots from which these have been generated and derived. Students will demonstrate readiness to assimilate and assess divergent, anomalous, and difficult ideas and produce coherent, informed, well-organized and well-reasoned perspectives and propositions.
Students should demonstrate a level of skill and proficiency in analysis of different theories, content, and historical data with respect to the study of religions.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>Program Requirements</td>
<td>34-49</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>24</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- two 4-credit hour CC-SCI (p. 743) I laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- RELG 101 - must be passed with a grade of C or higher or any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106,
HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Nine hours of Fine Arts or Humanities

Note: 3 hours of Fine Arts or Humanities must be fulfilled by RELG 120 -with a minimum grade of C - if RELG 101 was not taken to fulfill the Carolina Core-GSS requirement

3. Program Requirements (34-49 hours)
Cognate or Minor (12-18 hours)
Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Cognates applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (16-37 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Note: 10-31 hours of electives will be needed to reach hours to graduate and Program Requirements will range from 28-43 hours, if completing the Intensive Major or the B.A. with Distinction in Religious Studies.

4. Major Requirements (24 hours)
A minimum grade of C is required in all major courses.

Major Courses (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELG 390</td>
<td>Theories of Religion</td>
<td>3</td>
</tr>
<tr>
<td>RELG 488</td>
<td>Perspective in Religious Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours: 6

Major Electives (18 hours)

- Select 2 introductory 200-level courses
- Select 2 intermediate 300-level courses
- Select 2 advanced 400-level courses; students may substitute 400-level courses for 300-level requirements with advisor approval

Intensive Major (30 hours)

- Complete all requirements for the General Major.
- One additional RELG course a 300-level or above or, with advisor approval, a course that relates directly to the research path selected from anthropology, classics, history, languages, or philosophy.
- RELG 498

B.A. with Distinction (30 hours)
Students who fulfill the requirements for the Intensive Major and earn a minimum major GPA of 3.75 and a cumulative GPA of 3.50 will be awarded the degree "With Distinction in Religious Studies" upon graduation.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Religious Studies, B.A.
ROTC

Department Website (https://www.sc.edu/study/colleges_schools/artsandsciences/rotc/)

Military Science

Army Reserve Officer Training Corps (ROTC) is a coeducational program dedicated to developing college-educated men and women to serve in challenging positions of leadership, responsibility, and varied managerial positions both as officers in the U.S. Army and civilians in corporate America.

Army ROTC requires from two to four years to complete, depending on student qualifications. This time is normally divided into a two-year, no-obligation basic program, composed of freshman and sophomore students; and a two-year contractual advanced program, for juniors and seniors. Students with prior military service, JROTC, or National Guard/Reserve service may qualify for direct placement in the advanced program. At the beginning of their junior year, students with two years remaining before graduation may also qualify for the advanced program by attending Leadership Training Course (LTC), a four-week course offered during the summer at Fort Knox, Kentucky. All students participate in a regular program of physical fitness and field training.

The Scholarship Program

The Army ROTC Scholarship Program awards four-, three-, and two-year scholarships to eligible students on a competitive basis. The Department of Military Science accepts applications for three-year and two-year ROTC scholarships year-round. Nursing students who have qualified for placement in the advanced course may also apply for two-year scholarships. Students do not have to be enrolled in ROTC to apply for three-year and two-year scholarships.

The scholarship amount is applied to the cost of tuition. An additional amount of $900 is awarded for books and supplies. The students also receive a tiered allowance of $300, $350, $450, or $500 per month for up to 10 months of each school year depending on their academic status, i.e., freshman, sophomore, junior, or senior. All students receive $700 while attending the five-week Leadership Development and Assessment Course at Fort Lewis, Washington, after their junior year.

Leadership Training Course (LTC) Two-Year Program

LTC is for students who missed the first and second years of ROTC. LTC is attended during the summer between the sophomore and junior years of college for four weeks at Fort Knox, Ky. The purpose of LTC is to provide instruction in basic leadership and technical skills that will prepare you for your junior and senior years of ROTC. During this camp, you have the opportunity to compete for a two-year scholarship. All travel expenses are paid and you are paid $700 while attending camp. Students attending this camp incur no military obligation.

Cadet Professional Development Training

Selected cadets may attend Air Assault School, Airborne School, Mountain Warfare School, Northern Warfare School, and/or Scuba School. All training is voluntary and conducted at Army posts throughout the United States during either summer or winter recesses.

Cadet Troop Leader Training

Selected cadets are sent to various Army units in the United States and overseas to develop leadership experience prior to the beginning of their senior year. Cadets are paid and receive all privileges and status of Army officers.

Simultaneous Membership Program (SMP)

The Simultaneous Membership Program is a program in which the individual is both a member of the Army National Guard (ARNG) or the U.S. Army Reserve (USAR) and the Army ROTC. Students receive entitlements from both the ARNG or USAR and the ROTC.

This is a required program for cadets who are in the ARNG or USAR and are in the advanced course. When cadets enter the SMP, they become officer trainees in their guard or reserve unit and are paid as sergeants (E-5), while performing duties commensurate with the grade of second lieutenant.

Professional Military Education Program

The Army ROTC Professional Military Education (PME) program exists to enhance the career development and performance of cadets as future Army officers. The PME guidelines for Army ROTC cadets are as follows:

1. All cadets must successfully complete a course in American military history prior to commissioning.
2. All cadets are encouraged to take a course from each of the following areas prior to commissioning: human behavior, math reasoning, management, and national security studies.

Students will meet with the professor of military science/class advisor before selecting these courses.

Naval Science

The Naval Reserve Officers’ Training Corps Program, offered by the Department of Naval Science, prepares selected students for commissioned service in the United States Navy and the United States Marine Corps. The program embodies moral, mental, and physical development and instills in midshipmen the highest ideals of duty, honor, and loyalty in order to commission college graduates as professionally qualified, well-educated officers in the Naval service.

Selection to the program is based on the potential for future development in mind, body, and character so that midshipmen may assume the highest responsibilities of command, citizenship, and government. Naval ROTC graduates are given equal rank, treatment, and opportunity with graduates of the United States Naval Academy.

Students may enter the Naval ROTC Program at any time during their first two years (three years for five-year curricula) of University work. Specific information on an individual basis may be obtained at the ROTC center, located on Pickens St. between Blossom St. and Wheat St., or via phone at 803-777-3451. Any student attending the University may enroll in naval science courses.

Naval ROTC Programs

Navy-Marine Scholarship Program

Naval ROTC scholarship students are selected through national competition and appointed midshipmen, U.S. Naval Reserve, upon enrollment in the University. Upon graduation, Midshipmen are commissioned as ensign, U.S. Navy, or second lieutenant, U.S. Marine Corps, and serve at the pleasure of the president of the United States. Currently, the required minimum active duty service period has been established at four years.
Costs of tuition and fees and a textbook allowance are paid by the government. Uniforms are also provided by the government and students receive subsistence pay for other expenses at the rates of $250, $300, $350, and $400 per month (depending on class) during the academic year and $375 per semester for books.

Scholarship midshipmen must complete summer training periods, lasting approximately four weeks, and are paid during these training periods. The second and third summer training periods consist of at-sea training; the first provides aviation, submarine, surface, and amphibious warfare orientation.

**Four-Year College Program**

The Naval ROTC College Program is a four-year sequence leading to a commission as ensign, U.S. Navy, or second lieutenant, U.S. Marine Corps. College-program requirements are similar to those of the scholarship program. Applicants are selected by the professor of naval science and must meet certain physical standards. Students may apply for the Naval ROTC College Program at the Naval ROTC administrative office located in the Naval ROTC armory.

College-program midshipmen, if selected for advanced standing, are required to participate in one summer cruise, normally between the junior and senior years, and receive subsistence pay at the rates of $350 and $400 per month during the junior and senior academic years, respectively, and $375 per semester for books.

College-program students are eligible for selection to the Scholarship Program. Most students with a GPA of approximately 3.00 or better are awarded full Naval ROTC scholarships for the remainder of their undergraduate education.

College-program graduates commissioned in the U.S. Navy or the U.S. Marine Corps are required to serve on active duty for four years.

**Two-Year College Program**

The Two-Year College Program is essentially the same as the Four-Year College Program. Applicants must be in the first or second year of college, or in the third year of a five-year curriculum. During the summer preceding the final two years of college, successful candidates attend a six-week Naval Science Institute (NSI) in Newport, Rhode Island. While at the NSI, the Naval ROTC candidate is exposed to various fundamentals of naval science and participates in a compressed review of naval science courses normally taken during the freshman and sophomore years. Upon returning to USC, the Naval ROTC students enroll in the naval science curriculum, commencing with upper-level (300) courses. While in attendance at the NSI, each student receives about $550 per month, room and board, and compensation for travel expenses. Initial application should be made at the Naval ROTC office in the ROTC center.

**Two-Year Scholarship Program**

The Two-Year Scholarship Program is similar to the Two-Year College Program, in that accepted students attend the NSI during the summer preceding their final two years. However, selectivees for this program are guaranteed a full scholarship (tuition, fees, books, allowance, and a $300 per month stipend) upon successful completion of the NSI. Initial application should be made at the Naval ROTC office in the Naval ROTC armory.

**Marine Corps Option Program**

The Marine-option student completes the naval science curriculum for the first year as prescribed for all midshipmen. Specialized Marine Corps naval science courses and summer field training are required during the final three years of Naval ROTC training. Scholarship, college-program benefits, and subsistence pay are the same for Marine and Navy options.

Students desiring a commission in the Marine Corps may elect to enter the Naval ROTC College Program as Marine-option Midshipmen. Upper division Navy-option midshipmen may change to Marine-option midshipmen by submitting a written application to the professor of naval science, preferably during their sophomore year, for designation as a Marine option.

**Other Programs**

Scholarships are available through the Tweedale Scholarship program for engineering-related majors. Students must have completed at least one but no more than four semesters of college with excellent performance and be capable of completing all other NROTC requirements. Scholarships are also available to nursing students. Requirements vary; contact the ROTC unit for specifics.

**General Requirements**

In addition to completing the academic requirements for an approved baccalaureate degree, Naval ROTC students must, either as a part of or in addition to their regular curriculum, complete the following:

1. **Navy-Option Scholarship Students.** Two semesters of calculus by the end of the sophomore year and two semesters of calculus-based physics by the end of the junior year. In addition, scholarship students shall complete one semester of Regional Studies/World Culture, one semester of American Military Affairs or National Security Policy, and two semesters of freshman English.

2. **Navy-Option College Program Students.** Two semesters of college-level mathematics and one semester of computer science by the completion of the junior year. In addition, college program students will complete two semesters of physical science and two semesters of freshman English prior to graduation.

All Naval ROTC students are required to participate in weekly professional training laboratories which include physical fitness, swimming, military drill, and class seminar/advisement. The Naval uniform must be worn all day on those days allocated for military drill, generally Thursdays.

Navy-option students must complete 26 semester hours in a standardized naval science curriculum. Marine-option students must complete 15 semester hours of naval science courses plus one elective approved in advance by the professor of naval science.

**Programs**

- Aerospace Studies Minor (p. 220)
- Military Science Minor (p. 220)
- Naval Science Minor (p. 220)

**Courses**

**AERO 101 - The Foundation of the U.S. Air Force I (1 Credit)**

Survey course introducing students to the U.S. Air Force and AFROTC. Topics include mission and organization of the Air Force, officership, professionalism, military customs and courtesies, and officer career opportunities.

**AERO 101L - Initial Military Training Cadet Leadership Laboratory I (0 Credits)**

Provides cadets the basic skills/knowledge to be functional members of the cadet corps, and activities to build camaraderie and esprit-de-corps. Includes mandatory physical fitness program.
AERO 102 - The Foundation of the U.S. Air Force II (1 Credit)
Continuation of AERO 101. Additional topics include Air Force core values, leadership principles, group leadership dynamics, and an introduction to verbal and written communications skills.

AERO 102L - Initial Military Training Cadet Leadership Laboratory II (0 Credits)
Continuation of AERO 101L. Exposure to additional information on an Air Force career. Scenarios and problems teach followership and leadership skills. Includes mandatory physical fitness program.

AERO 201 - The Evolution of the U.S. Air Force I (1 Credit)
Examines USAF air and space power from a historical perspective. Covers the earliest aircraft, both World Wars, the Korean and Vietnam conflicts, air and space employment during the Cold War.

AERO 201L - Field Training Preparation Cadet Leadership Laboratory I (0 Credits)
Preparation of students for summer training at an Air Force base; teaching drill and other leadership experiences. Includes mandatory physical fitness program.

AERO 202 - The Evolution of the U.S. Air Force II (1 Credit)
Continuation of AERO 201. This course continues to explore Air Force history, beginning with the Vietnam era and culminating with the application of air and space power in recent conflicts.

AERO 202L - Initial Field Training Preparation Cadet Leadership Laboratory II (0 Credits)
Continuation of AERO 201L. Focuses on AFROTC Honor Code, Field Training Manual/procedures, and expeditionary skills required at field training. Includes mandatory physical fitness program.

AERO 301 - Air Force Leadership Studies I (4 Credits)
Study of leadership, management fundamentals, the profession of arms, personnel evaluation systems, ethics, motivation, team building, change management, and communication skills. Analyses of leadership and management case studies. Corequisite: AERO 301L.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 301L - Intermediate Cadet Leader Leadership Laboratory I (0 Credits)
Provides cadets opportunities to develop leadership and followership skills, as well as sharpen their planning, organization, and communication ability. Includes mandatory physical fitness program. Corequisite: AERO 301.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 302 - Air Force Leadership Studies II (4 Credits)
Continuation of AERO 301. Topics include developing subordinates, conflict management, counseling, influence, authority and responsibility, accountability, and moral leadership. Includes case studies on effective supervision and accountability. Prerequisites: AERO 301.

Prerequisites: 302.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 302L - Intermediate Cadet Leader Leadership Laboratory II (0 Credits)
Continuation of AERO 301L. Allows intermediate cadets leaders to further develop leadership and management skills essential in Air Force officers. Includes mandatory physical fitness program. Prerequisites: AERO 301L.

Corequisite: AERO 302.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 401 - National Security/Leadership Responsibilities/Commissioning Preparation (4 Credits)
Study of U.S. Constitution, the Armed Forces, civilian control of the military, elements of national security, USAF doctrine, Total Force, the Joint environment, terrorism, and regional and cultural studies. Prerequisites: AERO 302.

Corequisite: AERO 401.

AERO 401L - Senior Cadet Leader Leadership Laboratory I (0 Credits)
 Provides senior cadet leaders opportunities to develop leadership and supervisory skills, and to effectively manage resources toward mission accomplishment. Includes mandatory physical fitness program. Prerequisites: AERO 302L.

Corequisite: AERO 401.

AERO 402 - Preparation for Active Duty (4 Credits)
Continuation of AERO 401. Topics include additional regional studies, military justice, personnel feedback, evaluation and promotion systems, the military profession, current issues affecting the military, and preparation for active duty. Prerequisites: AERO 401.

Corequisite: AERO 402.

AERO 402L - Senior Cadet Leader Leadership Laboratory II (0 Credits)
Continuation of AERO 401L. Allows senior cadet leaders advanced opportunities to hone their leadership in preparation for entering active duty. Includes mandatory physical fitness program. Prerequisites: AERO 401L.

Corequisite: AERO 402.

AERO 499L - Extended Cadet Leader Leadership Laboratory (0 Credits)
 Provides extended cadet leaders opportunities to continue developing leadership, managerial, and communication skills, and to mentor junior cadet corps members. Includes mandatory physical fitness program. Prerequisites: 402L.

ARMY 101 - Fundamentals of Military Science (2 Credits)
Development of leadership, management, and communication skills. Map reading, land navigation, and study/time management techniques.

ARMY 102 - Introduction to the Army (2 Credits)
History, organization, mission, and role of United States Army in national defense. Components of total Army structure. Emphasis on group dynamics and communication skills.
ARMY 201 - Fundamentals of Military Leadership (3 Credits)
Oral and written military communications, planning, and organizing techniques. Current military leadership doctrine and application. Combined arms concepts, organizations, and tactics.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ARMY 202 - Fundamentals of Military Decision Making (3 Credits)
Soldier skills, including map reading and land navigation. Introduces Army troop-leading procedures through practical exercises and principles of war using historical events.

ARMY 301 - Advanced Military Decision Making (4 Credits)
Small group leadership through practical applications. Individual leadership skills with emphasis on problem analysis, decision formulation, and steps of decision making.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ARMY 302 - Applied Military Leadership (4 Credits)
Continues development of leadership competencies and confidence. Tactical training exercises to enhance leadership development.
Prerequisites: ARMY 301.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ARMY 400 - Nurses Summer Training Program Clinical Elective (3 Credits)
A 3-week summer nursing experience conducted at an Army hospital in the United States, Europe, or Asia that orients the cadet nurse to the mission of the U.S. Army Medical Department and its health care delivery system. It provides a minimum of 120 hours of clinical experience to develop nursing, leadership, administrative, and interpersonal skills.
Prerequisites: completion of the Leadership Development Assessment Course [LDAC], NURS 412 or its equivalent, acceptance into any Army ROTC, and enrolled Army ROTC Nursing Cadets.

ARMY 401 - Leadership and Management Seminar I (4 Credits)
Current Army leadership, tactical, and training doctrine. Military law in context of peacekeeping/enforcement operations. Overview of Army's role in joint operations.
Prerequisites: ARMY 301.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ARMY 402 - Leadership and Management Seminar II (4 Credits)
Application of current Army leadership, tactical, and training doctrine. Evolution of military professionalism; civil-military relations, personal and professional ethics, and military justice system.
Prerequisites: ARMY 401.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ARMY 406 - American Military Experience (3 Credits)
Transformation of war and of the institutions for waging war from the American Revolution to the present.
Cross-listed course: HIST 468

NAVY 101 - Fundamentals of Naval Science (3 Credits)
The Naval Service with emphasis on the mission, organization, regulation, and components of the Navy and Marine Corps.

NAVY 102 - U.S. Military History (3 Credits)
A historical survey on the importance of military doctrine and the many roles of the United States Military covering from the American Revolution to present day. HIST 468 or ARMY 406 may be taken in lieu of this course to meet the Naval ROTC History requirement.

NAVY 111 - Naval Military Laboratory (0 Credits)
Military drill, cruise preparation, customs, traditions, and special areas of knowledge required of commissioned officers in the Navy and Marine Corps. Pass/Fail grading.

NAVY 201 - Naval Ships Systems I (3 Credits)

NAVY 202 - Naval Ships Systems II (3 Credits)
Fire control systems, weapons types, capabilities, and limitations. Physical aspects of radar and underwater sound for target acquisition, threat analysis, tracking, weapons selection, delivery, and guidance. Explosives, fusing, and naval ordnance.

NAVY 301 - Navigation/Naval Operations I (4 Credits)
Piloting and celestial navigation theory, principles, and procedures. Tides, current, weather, use of navigational instruments and equipments, and practicum. Laboratory required.

NAVY 301L - Navigation/Naval Operations Lab I (0 Credits)
Laboratory work in piloting and celestial navigation to complement Naval Science 301. One hour per week.

NAVY 302 - Navigation/Naval Operations II (4 Credits)
International and Inland Rules of the Road; relative motion-vector analysis; ship handling, employment, tactics, and afloat communications; and operations analysis. Laboratory required.

NAVY 302L - Navigation/Naval Operations II Lab (0 Credits)
Laboratory work in maneuvering board (vector analysis) and Rules of the Road to complement Naval Science 302. One hour per week.

NAVY 303 - Evolution of the Art of War (3 Credits)
A survey of military history emphasizing principles of warfare, strategy and tactics, and significant military leaders and organizations.

NAVY 401 - Naval Leadership and Management I (3 Credits)
Theory and principles of management, focusing on the officer-manager as an organizational decision maker. Includes interpersonal skills; behavior factors; group dynamics.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

NAVY 402 - Naval Leadership and Ethics (3 Credits)
Integration of professional military competencies and qualities of effective leadership with emphasis on moral and ethical responsibilities, accountability, communications, and military law for the junior officer.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

NAVY 403 - Fundamentals of Maneuver Warfare (3 Credits)
The history of Maneuver Warfare emphasizing doctrine and techniques while enabling students to become critical thinkers and better prepare them for future service.
Aerospace Studies Minor

Minor Requirements (20 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AERO 101</td>
<td>The Foundation of the U.S. Air Force I</td>
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</tr>
<tr>
<td>AERO 101L</td>
<td>Initial Military Training Cadet Leadership Laboratory I</td>
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</tr>
<tr>
<td>AERO 102</td>
<td>The Foundation of the U.S. Air Force II</td>
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<td>The Evolution of the U.S. Air Force I</td>
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<tr>
<td>AERO 201L</td>
<td>Field Training Preparation Cadet Leadership Laboratory I</td>
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<tr>
<td>AERO 202</td>
<td>The Evolution of the U.S. Air Force II</td>
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<tr>
<td>AERO 202L</td>
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Professional Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>AERO 301</td>
<td>Air Force Leadership Studies I</td>
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<tr>
<td>AERO 302</td>
<td>Air Force Leadership Studies II</td>
<td>4</td>
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<tr>
<td>AERO 401</td>
<td>National Security/Leadership Responsibilities/Commissioning Preparation</td>
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<tr>
<td>AERO 402</td>
<td>Preparation for Active Duty</td>
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Total Credit Hours 20

Military Science Minor

Minor Requirements

All students minoring in military science must complete designated required courses and professional military education courses. Students must earn a grade of C or better in all minor courses.

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ARMY 301</td>
<td>Advanced Military Decision Making</td>
<td>4</td>
</tr>
<tr>
<td>ARMY 302</td>
<td>Applied Military Leadership</td>
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</tr>
<tr>
<td>ARMY 401</td>
<td>Leadership and Management Seminar I</td>
<td>4</td>
</tr>
<tr>
<td>ARMY 402</td>
<td>Leadership and Management Seminar II</td>
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Professional Military Education (Military History Course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ARMY 406</td>
<td>American Military Experience</td>
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<tr>
<td>or HIST 468</td>
<td>American Military Experience</td>
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Professional Military Education (Computer Science Course)

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any baseline computer science course for your major that demonstrates basic computer proficiency</td>
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</table>

Total Credit Hours 22

Naval Science Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NAVY 101</td>
<td>Fundamentals of Naval Science</td>
<td>3</td>
</tr>
<tr>
<td>NAVY 102</td>
<td>U.S. Military History</td>
<td>3</td>
</tr>
<tr>
<td>NAVY 402</td>
<td>Naval Leadership and Ethics</td>
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Electives

Select three of the following:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NAVY 201</td>
<td>Naval Ships Systems I</td>
<td>9</td>
</tr>
<tr>
<td>NAVY 202</td>
<td>Naval Ships Systems II</td>
<td></td>
</tr>
<tr>
<td>NAVY 301</td>
<td>Navigation/Naval Operations I</td>
<td></td>
</tr>
<tr>
<td>NAVY 302</td>
<td>Navigation/Naval Operations II</td>
<td></td>
</tr>
<tr>
<td>NAVY 303</td>
<td>Evolution of the Art of War</td>
<td></td>
</tr>
<tr>
<td>NAVY 401</td>
<td>Naval Leadership and Management I</td>
<td></td>
</tr>
<tr>
<td>NAVY 403</td>
<td>Fundamentals of Maneuver Warfare</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 18

School of the Earth, Ocean and Environment

Department Website (https://www.sc.edu/study/colleges_schools/artsandsciences/earth_ocean_and_environment/)

Alicia Wilson, Director
Gwendelyn Geidel, Undergraduate Director
Joseph Quattro, Graduate Director

The School of the Earth, Ocean and Environment (SEOE) is a unit within the College of Arts and Sciences, and encompasses research and education in the geosciences and, marine sciences, as well as the environment and sustainability. Our focal academic areas span the range from the natural and social sciences to the environmental humanities. Unification of these areas under one umbrella encourages synergistic interactions and collaborations in both research and teaching. The Belle Baruch Institute for Marine and Coastal Sciences is housed within the SEOE, and provides unique facilities and resources on the coast of South Carolina.

Interdepartmental Majors

Specific programs for students who wish to develop interdepartmental majors will be determined after consultation between the student and faculty representatives of the departments involved. The School of the Earth, Ocean and Environment (SEOE) is a unit within the College of Arts and Sciences, and encompasses research and education in the geosciences and, marine sciences, as well as the environment and sustainability. Our focal academic areas span the range from the natural and social sciences to the environmental humanities. Unification of these areas under one umbrella encourages synergistic interactions and collaborations in both research and teaching. The Belle Baruch Institute for Marine and Coastal Sciences is housed within the SEOE, and provides unique facilities and resources on the coast of South Carolina.

Programs

- Environmental Science, B.S. (p. 229)
- Environmental Studies Minor (p. 233)
Courses

ENVR 101 - Introduction to the Environment (3 Credits)
Analysis of environmental issues and the role of science in their identification and resolution.
Carolina Core: SCI

ENVR 101L - Introduction to the Environment Lab (1 Credit)
Demonstrations, field trips, data analyses, and discussion relating to environmental issues, such as sustainability, resource management, and pollution control.
Prerequisite or Corequisite: ENVR 101.

ENVR 121 - Green Explorations (3 Credits)
Interdisciplinary seminar combining the intellectual exploration of ecological perspectives with the physical exploration of the local environment. First-year students only.
Cross-listed course: POLI 121

ENVR 122 - Green Engagements (3 Credits)
Interdisciplinary seminar on designing, researching, and implementing collaborative projects to promote ecological sustainability. First-year students only.
Cross-listed course: POLI 122
Graduation with Leadership Distinction: GLD: Community Service, GLD: Research

ENVR 200 - Natural History of South Carolina (4 Credits)
General review of plants, animals, and geological features of South Carolina, with an emphasis on connections to the natural world.
Carolina Core: SCI

ENVR 201 - Environmental Science and Policy I (4 Credits)
Introduction to interdisciplinary and multidisciplinary perspectives on environmental issues. Required for majors in the Environment and Sustainability Program. Integrative case studies address ways of understanding nature. Sophomore Standing.

ENVR 202 - Environmental Science and Policy II (4 Credits)
Continuing interdisciplinary and multidisciplinary exploration of relations between environment and society for majors in the Environment and Sustainability Program. Case studies raise issues, challenges, and strategies to achieving sustainability. Sophomore standing.
Prerequisites: ENVR 201.

ENVR 231 - Introduction to Sustainability Management and Leadership (3-4 Credits)
Introduction to development, establishment, and implementation of sustainability management systems and organizational leadership for achieving environmental, social, and economic goals.

ENVR 232 - Environmental Ethics (3 Credits)
Examination of principles and arguments surrounding moral issues involving the environment.
Cross-listed course: PHIL 322
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

ENVR 295 - Green Technology in Germany (3 Credits)
Examination of roots and culture of environmentalism and related technological innovation in Germany. Comparison of green practices around the world to practices within Europe and U.S.
Cross-listed course: GERM 295
Graduation with Leadership Distinction: GLD: Community Service

ENVR 321 - Environmental Pollution and Health (3 Credits)
A survey of pollution (chemical, biological, physical) effects on environmental quality and public health with emphases on how each pollutant class behaves and affects individual and community health over acute to chronic exposure periods.
Cross-listed course: ENHS 321

ENVR 322 - Environmental Ethics (3 Credits)
Examination of principles and arguments surrounding moral issues involving the environment.
Cross-listed course: PHIL 322
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

ENVR 323 - Global Environmental Health (3 Credits)
Concerns in global environmental health, with a focus on toxic pollution and disease burden in developing countries. Investigation of international treaties, corresponding environmental pollution processes, and human health effects.
Cross-listed course: ENHS 323

ENVR 331 - Environmental Anthropology: Cross-cultural Perspectives on Environmental Change (3 Credits)
Cross-cultural perspectives on environmental issues.
Cross-listed course: ANTH 342

ENVR 342 - Environmental Change (3 Credits)
Examination of roots and culture of environmentalism and related technological innovation in Germany. Comparison of green practices around the world to practices within Europe and U.S.
Cross-listed course: GERM 295
Graduation with Leadership Distinction: GLD: Community Service

ENVR 348 - Environmental Racism and Justice (3 Credits)
History of the environmental justice movement and the unequal distribution of environmental harms on low income, minority, and historically marginalized groups.
Cross-listed course: AFAM 348

ENVR 352 - Energy, Society and Sustainability (3 Credits)
The role of energy in shaping society and geographic settings, as well as how energy production and consumption are shaped by the societal values and norms in which it is extracted, produced, and consumed.

ENVR 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and dean of the School of the Environment is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

ENVR 460 - Congaree National Park: Field Investigations in Environmental Science (4 Credits)
Field research practices and analysis techniques in environmental science. Combines inquiry-based field investigations at Congaree National Park and laboratory sample analysis with integration of data and public policy concepts. Daily field trips required.
Prerequisites: ENVR 201 and ENVR 202.
ENVR 490 - Special Topics in Sustainability and the Environment (1-4 Credits)
Current developments in sustainability and global environmental issues selected to meet faculty and student interests. May be repeated as content varies.

ENVR 499 - Research in Environmental Science (1-3 Credits)
Independent student research in collaboration with faculty mentors. Contract approved by instructor, advisor, and department chair is required.
Graduation with Leadership Distinction: GLD: Research

ENVR 500 - Environmental Practicum (3 Credits)
Multidisciplinary research projects related to University or community environmental problems (e.g., energy, water conservation, solid waste, recycling).

ENVR 501 - Special Topics in the Environment (3 Credits)
An in-depth analysis course of a specific interdisciplinary environmental topic. Course content varies and will be announced in the schedule of classes by title.
Prerequisites: ENVR 101 or ENVR 201.

ENVR 531 - Sustainability Management and Leadership Strategies (3-4 Credits)
Integrated management system principles and advanced leadership strategies to create sustainable development initiatives.

ENVR 533 - Sustainability Projects Course (3 Credits)
Research, development and implementation of sustainability projects throughout the campus and community.

ENVR 538 - Global Food Politics (3 Credits)
Political, social, and cultural landscapes of food and farming around the world; issues of agricultural production, trade, consumption, and food security.
Cross-listed course: GEOG 538

ENVR 540 - Decolonizing the Environment: Race, Nature, Power (3 Credits)
Critical examination of the ways ideas about nature and racial difference are conceptually and materially entwined with the production of social and environmental inequalities.

ENVR 548 - Environmental Economics (3 Credits)
An analysis of the economics aspects of environmental decay, pollution control, and natural resource use. Analysis of the ability of the market system to allocate resources efficiently when economic activity is accompanied by environmental damage. Discussion of alternative public policy approaches to pollution control and natural resource conservation.
Prerequisites: ECON 221 and ECON 222, or ECON 224.
Cross-listed course: ECON 548

ENVR 571 - Conservation Biology (3 Credits)
Principles of conservation biology. Importance of biodiversity, causes of decline and extinction, and restoration and conversation policy in terrestrial and aquatic ecosystems.
Prerequisites: BIOL 301.
Cross-listed course: BIOL 571

ENVR 572 - Freshwater Ecology (3 Credits)
Quantitative study of the population, community and evolutionary ecology of freshwater habitats (lakes, ponds, rivers, streams, wetlands). Includes mandatory fieldtrips.
Prerequisites: BIOL 301.
Cross-listed course: BIOL 572

ENVR 590 - Environmental Issues Seminar (3 Credits)
Collaborative study of a contemporary environmental issue. Field trips may be required. Restricted to Environmental Science and Environmental Studies majors.
Prerequisites: BIOL 301.

GEOl 101 - Introduction to the Earth (4 Credits)
Origin and nature of the earth with emphasis on internal processes and phenomena such as earthquakes, volcanoes, and mountain building; surface processes, including landform evolution. Three lectures and three laboratory hours each week.
Carolina Core: SCI

GEOl 102 - Fossils and the Evolution of Life on Earth (4 Credits)
Basic overview of fossils, including dinosaurs, and their importance for understanding earth history and the evolution of life. Three lectures and three laboratory hours each week.

GEOl 103 - Environment of the Earth (4 Credits)
Analysis of basic energy cycles of the earth. Interaction of human activity with earth processes to affect the environment. Three lectures and three laboratory hours each week. Field trips required.
Carolina Core: SCI

GEOl 110 - Cultural Geology (3 Credits)
The growth of geological concepts, scientific and non-scientific. The impact of geological factors on human affairs. The role of time and evolution (biological and physical). Restricted to non-science majors.
Carolina Core: SCI

GEOl 201 - Observing the Earth (4 Credits)
An introduction to study of the earth through observation of ancient and modern earth systems in a field setting. Field trips required.

GEOl 205 - Earth Resources (3 Credits)
Mineral, energy, and water resources with emphasis on geological processes governing their distribution. Intended for non-science majors. Three lecture hours each week with occasional field trips.
Carolina Core: SCI

GEOl 215 - Coastal Environments of the Southeastern U.S. (3 Credits)
Coastal zones of South Carolina and neighboring states, including geologic history, geomorphology, stratigraphy, hydrogeology, shoreline processes, environmental issues, and effects of man. Not available for geology major credit. Three lecture hours each week plus optional field trips.
Carolina Core: SCI

GEOl 215L - Coastal Environments of the Southeastern U.S. (Laboratory) (1 Credit)
Exercises examining coastal ecology, geomorphology, hydrogeology, shoreline processes, environmental issues, and human impact. Two laboratory hours per week. Scheduled field trips required. Not available for marine science major credit.
Cross-listed course: MSCI 215L
Carolina Core: SCI
GEOL 230 - Geology of the National Parks (3 Credits)
Examination of the geologic setting and scientific significance of selected National Parks. Three lecture hours.

Carolina Core: SCI

GEOL 250 - Continental Drift and Ice Ages (3 Credits)
An introduction to geology and geophysics. The structure of the earth, core, mantle, and crust; problems of facies, plate motions, and their probable influence on climate and evolution. Future prospects.

GEOL 302 - Rocks and Minerals (4 Credits)
Chemical and physical processes of mineral formation in earth systems including an overview of igneous, sedimentary, and metamorphic rock-forming processes. Includes laboratory. Field trips required.
Prerequisites: GEOL 101 or GEOL 103 or GEOL 201; CHEM 111 recommended.

GEOL 305 - Earth Systems through Time (4 Credits)
Survey of earth history, the evolution of continents and oceans, the history of life, and geological dating methods. Includes laboratory and recitation. Required field trips. Taught alternate years.

GEOL 315 - Surface and Near Surface Processes (4 Credits)
Overview of groundwater, surface water hydrology, sediment transport, river systems, and coastal processes. Includes laboratory and recitation. Required field trips.
Prerequisites: PHYS 201 or PHYS 211.

Graduation with Leadership Distinction: GLD: Research

GEOL 318 - Field Studies in Geology (1 Credit)
Directed field studies of extraordinary geological locations in North America. Requires a seven- to nine-day field trip during spring break.
Prerequisites: GEOL 101, GEOL 103, or GEOL 201 and consent of instructor.

Graduation with Leadership Distinction: GLD: Research

GEOL 325 - Stratigraphy and Sedimentary Basins (4 Credits)
Overview of sedimentary basins, sediment transport, sedimentation, depositional environments, stratigraphy, seismic stratigraphy, eustacy, and sedimentary petrology. Includes laboratory and recitation. Required field trips.
Prerequisites: GEOL 302.

GEOL 335 - Processes of Global Environmental Change (4 Credits)
The science of global change, its relation to the hydrosphere, atmosphere, lithosphere, and biosphere. Global system science, biogeochemical cycles, paleoclimatology, glaciation, and eustacy.
Cross-listed course: MSCI 335

GEOL 345 - Igneous and Metamorphic Processes (4 Credits)
Prerequisites: GEOL 302; MATH 122 or MATH 141.

GEOL 355 - Structural Geology and Tectonics (4 Credits)
Geologic structures and deformation of Earth materials. Stress and strain, deformation mechanisms, P-T-t paths, geologic maps, and structural regimes in plate tectonics. Includes laboratory and recitation. Required field trips.
Prerequisites: GEOL 302; PHYS 201 or PHYS 211.

GEOL 371 - A View of the River (3 Credits)
Introduction to terrestrial and tidal river morphology and processes, with case studies of South Carolina. Field trips required.
Prerequisites: GEOL 101 or GEOL 103 or GEOL 201.

GEOL 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

GEOL 498 - Undergraduate Research (3 Credits)
Student research on problems of regional and fundamental significance, supervised by a faculty member of the student's choice. Emphasis is on the development of critical thinking and lucid scientific report writing.
Graduation with Leadership Distinction: GLD: Research

GEOL 499 - Undergraduate Research (3 Credits)
Student research on problems of regional and fundamental significance, supervised by a faculty member of the student's choice. Emphasis is on the development of critical thinking and lucid scientific report writing.
Graduation with Leadership Distinction: GLD: Research

GEOL 500 - Field Geology (4-6 Credits)
Geological field techniques including the use of field instruments and the preparation of geological maps. Written and oral reports required.
Prerequisites: GEOL 325 and GEOL 355.

Graduation with Leadership Distinction: GLD: Research

GEOL 501 - Principles of Geomorphology (3 Credits)
The process of earth denudation with emphasis on chemistry of weathering, stream and erosion hydraulics, quantitative analysis of land form evolution.
Prerequisites: GEOL 101 and GEOL 102.

Cross-listed course: MSCI 501

GEOL 502 - Principles of Coastal Geomorphology (4 Credits)
Geological and physical controls on the morphology, development, and stability of coastlines. Analysis of waves and erosional processes, and coastal zone morphodynamics. Several required field trips.
Prerequisite or Corequisite: MATH 122 or MATH 141.

Cross-listed course: MSCI 502

GEOL 503 - Regional Stratigraphy and Biostratigraphy of North America (3 Credits)
Sedimentologic, biostratigraphic, and tectonic history of North America, approached from paleogeographic considerations with emphasis on the Atlantic Coastal Plain and Continental Margin. Three hours lecture and three hours recitation per week. Required field trips.

GEOL 508 - Paleontology (3 Credits)
Fundamentals of pollen analysis including morphology of modern and fossil forms, use of pollen and spores for correlation, dating, establishing phylogenetic trends, and reconstruction of ancient environments. Two lectures plus one two-hour lab per week.

GEOL 510 - Organic Sedimentation and Coal Genesis (3 Credits)
Theories of origin of coal deposits and coal-forming ingredients. Basic concepts of coal composition and classification. Practical applications of coal petrographic techniques. Two lectures plus one two-hour lab. Two optional field trips.
GEOL 511 - Advanced Paleontology (3 Credits)
Systematic, ecologic, biogeographic, and evolutionary aspects of paleontology; lectures, practical exercises, field trips.
Prerequisites: GEOL 305.
Cross-listed course: MSCI 511

GEOL 515 - Marine Micropaleontology (4 Credits)
Marine microfossils; distribution, ecology, paleoecology, and biostratigraphy; use of microfossils in marine sediments to study oceanographic history. Three lectures and two laboratory hours per week.
Cross-listed course: MSCI 515

GEOL 516 - Sedimentology (4 Credits)
Modern concepts of sediment composition, sedimentary facies, depositional environments, and stratigraphy. Includes laboratory.
Prerequisites: GEOL 325.

GEOL 518 - Surface to Subsurface Stratigraphy (3 Credits)
Surface to subsurface stratigraphic interpretation and techniques; litho- and biostratigraphy; geophysical log interpretation and subsurface presentation.

GEOL 520 - Isotope Geology and Geochronology (3 Credits)
DATING TECHNIQUES FOR PLEISTOCENE DEPOSITS, SEDIMENTS, ARCHAEOLOGICAL MATERIALS, IGNEOUS AND METAMORPHIC ROCKS.

GEOL 521 - Introduction to Geochemistry (3 Credits)
Investigation of low temperature chemical reactions controlling the geochemistry of the earth's surface. Emphasis on CO2, carbonates, oxidation-reduction, thermodynamics, isotopes, biogeochemistry. Cross-listed course: MSCI 521

GEOL 524 - Environmental Radioisotope Geochemistry (3 Credits)
Introduction to radioactivity and the use of radionuclides to study environmental processes, including age-dating and biogeochemical cycling in aquatic systems. Two lectures per week.
Prerequisites: CHEM 111, CHEM 112, MATH 141.

GEOL 526 - Igneous Petrology (4 Credits)
Petrography and petrogenesis of igneous rocks; evolution of contrasting petrotectonic terranes. Three lectures and three laboratory hours per week.
Prerequisites: GEOL 202.

GEOL 527 - Metamorphic Petrology (4 Credits)
Petrography and petrogenesis of metamorphic rocks in orogenic belts. Three lectures and three laboratory hours per week.
Prerequisites: GEOL 202.

GEOL 531 - Plate Tectonics (3 Credits)
Geological and geophysical evidence for plate tectonics, detailed development of the plate tectonics model, and present areas of research, including measurements of plate motion using satellite geodesy.
Prerequisites: Must have passed two GEOL courses numbered 300 or above, or consent of instructor.

GEOL 537 - Field Methods in Geophysics (3 Credits)
Application of two or more geophysical field methods to a current geological problem. Independent study contract required.

GEOL 540 - Earth Science for Teachers I (3 Credits)
Survey of topics related to the origin, internal structure, and internal processes of the earth, including plate tectonics, earthquakes, volcanoes, and mountain building. Required field trips, two lectures, and three lab hours per week. Cannot be used in M.S. or PhD programs in geology.
Cross-listed course: EDSE 548

GEOL 541 - Earth Science for Teachers II (3 Credits)
Surface processes acting on the earth; introduction to weather and climate, weathering, erosion, and sedimentary processes; landform evolution; ocean currents and tides, near-shore geologic processes. Required field trips, two lecture and three lab hours per week. Cannot be used in MS or PhD programs in geology.
Prerequisites: EDSE 548/GEOL 540.
Cross-listed course: EDSE 549

GEOL 542 - Methods in Geoscience Education Research (3 Credits)
Introduction to methods used in discipline-based education research and their application to research questions in the geosciences.
Prerequisites: C or better in least one course in GEOL, ENVR, MSCI or GEOG.

GEOL 545 - Geological Oceanography (3 Credits)
A comprehensive study of the origin and development of the major structural features of the ocean basins and the continental margins. Discussion of the techniques used in obtaining geologic data and the interpretation of sedimentary processes, vulcanism, and the stratigraphy of the ocean basins.
Cross-listed course: MSCI 545

GEOL 546 - Marine Geophysics (3 Credits)
Introduction to the nature and structure of the ocean floor as revealed by geophysical techniques. Two hours lecture and three hours laboratory.

GEOL 548 - Environmental Geophysics (4 Credits)
Practical geophysical techniques for exploring the shallow subsurface. Seismic, resistivity, well log, gravity, magnetic method. Includes lectures and field exercises to collect and analyze data.
Prerequisites: MATH 141 and PHYS 201 or PHYS 211.

GEOL 550 - Sedimentary Simulations and Sequence Stratigraphy (4 Credits)
Problems of sequence stratigraphy resolved with graphic computer simulations. Sedimentary fill of basins by carbonates and/or clastics tracked as a function of rate of sediment accumulation, tectonic behavior, and sea level. Includes laboratory.
Prerequisites: GEOL 325.
Cross-listed course: MSCI 550

GEOL 553 - Marine Sediments (3 Credits)
Marine sedimentary environments; physical/biological factors which control the formation and distribution of modern marine sediments.
Prerequisites: GEOL 516.
Cross-listed course: MSCI 553

GEOL 554 - Applied Seismology (3 Credits)
Theory of seismic wave propagation. Seismic reflection data acquisition, processing, and interpretation.
Prerequisites: MATH 141; PHYS 201 or PHYS 211.

GEOL 555 - Elementary Seismology (3 Credits)
Basic elements of seismology. Mathematical development of seismic wave equations; measurement, description, and interpretation of seismic data.
Prerequisites: MATH 241.
GEOL 556 - Seismic Reflection Interpretation (3 Credits)
The interpretation of geologic structure using seismic sections. Recognition of apparent structure caused by velocity anomalies, multiples, and complex reflector geometry. Application to hydrocarbon exploration.

GEOL 557 - Coastal Processes (3 Credits)
Physical and geological processes controlling the formation and evolution of beach, barrier, and nearshore environments, including discussion of coastal management issues.
Cross-listed course: MSCI 557

GEOL 560 - Earth Resource Management (3 Credits)
An approach to problems of resource management by lecture and seminar using case studies in mineral, energy, hydrogeological, and environmental science.
Graduation with Leadership Distinction: GLD: Research
Experiential Learning: Experiential Learning Opportunity

GEOL 561 - Environmental Field Geology (6 Credits)
An introduction to field methods in sedimentology, structural geology, hydrogeology and geophysics with special reference to geological hazards and environmental problems.

GEOL 567 - Long-Term Environmental Change (3 Credits)
Climatic changes of the past and their impact on the physical landscape, with an emphasis on the Quaternary period.
Prerequisites: A 200-level course in physical geography or geology or equivalent.

Cross-listed course: GEOG 567

GEOL 568 - Introduction to Micrometeorology (3 Credits)
Small-scale processes in the atmospheric boundary layers, including energy budget, radiation, soil heat transfer, humidity, viscous flows, turbulence, momentum and heat exchanges, evaporation, and marine atmospheric boundary layer.
Prerequisites: PHYS 201 and MATH 141.

Cross-listed course: MSCI 568

GEOL 570 - Environmental Hydrogeology (3 Credits)
Environmental considerations of the hydrologic cycle, occurrence and movement of ground water, aquifer analysis, and water well emplacement and construction. Water quality, pollution parameters, and the geochemistry of selected natural systems. The effects of environmental problems, waste disposal, and urban development upon the aqueous geochemical regime.
Prerequisites: GEOL 101 and CHEM 111 or their equivalents.

GEOL 571 - Soil Hydrology (4 Credits)
Saturated and unsaturated water flow through soils, pore pressure development, runoff generation, and watershed response to rainfall. Three lecture and three laboratory hours per week.
Prerequisites: PHYS 202 and MATH 142.

GEOL 575 - Numerical Modeling for Earth Science Applications (3 Credits)
Finite difference and finite element methods for solving the diffusion equation and advection-dispersion equation, with applications in hydrogeology, geophysics, geology, and marine science.
Prerequisites: MATH 142; MATH 241 is recommended.

GEOL 579 - Air-Sea Interaction (3 Credits)
The physical mechanism responsible for interaction between the ocean and the atmosphere and the influence of air-sea interaction on atmospheric and oceanic dynamics and thermodynamics on a wide variety of spatial/temporal scales.
Cross-listed course: MSCI 579

GEOL 580 - Satellite Oceanography (3 Credits)
This course provides knowledge of various techniques used in satellite remote sensing of the oceans. Key skills will be developed in satellite data processing, image analysis, and hands-on research.
Cross-listed course: MSCI 580

GEOL 581 - Estuarine Oceanography (3 Credits)
Estuarine kinematics and dynamics; classification of estuaries; estuarine circulation and mixing. Scheduled field trips are required.
Prerequisites: differential equations, PHYS 201 or PHYS 211.

Cross-listed course: MSCI 581

GEOL 582 - Marine Hydrodynamics (3 Credits)
Basic principles of fluid statics and dynamics. Conservation of mass, momentum, and energy; viscosity, vorticity, and boundary layers with examples from the marine environment. Applications to and analysis of ocean currents and waves. Scheduled field trips are required.
Prerequisites: differential equations, PHYS 201 or PHYS 211.

Cross-listed course: MSCI 582

GEOL 583 - Geology and Geochemistry of Salt Marshes (3 Credits)
Geological and geochemical processes in salt marshes. Methods of geological research in marshes, including instrumental techniques, sampling design, and data analysis. Two lectures per week plus four weekends of project-oriented fieldwork and/or equivalent lab work. Scheduled field trips are required.
Cross-listed course: MSCI 583

GEOL 600 - Senior Seminar in Geology and Geophysics (2 Credits)
Advanced research topics in geology and geophysics; critical reading of literature, technical presentations, and written reports. Senior standing.

GEOL 650 - Electron Microscopy and Microanalysis (4 Credits)
SEM, ESEM, TEM, and EMPA, WDS quantitative analysis, EDS semi-quantitative analysis, EBSD, methods of sample preparation, and applications in varieties of disciplines. Two lecture and three laboratory hours per week.
Prerequisites: CHEM 111 or equivalent.

GEOL 699 - Senior Thesis (3-6 Credits)
Senior capstone experience, research on a problem on fundamental significance, supervised by faculty member; must include field study component, written final project report, and oral presentation at departmental seminar.

MSCI 101 - The Ocean Environment (4 Credits)
Origin and evolution of the oceans, plate tectonics, ocean circulation, waves and tides, seawater and sediment composition, and influences on biology. Three lecture and three laboratory hours per week. Scheduled field trips required.
Carolina Core: SCI

MSCI 102 - The Living Ocean (4 Credits)
Origin, evolution, and diversity of marine life, biological production, trophic dynamics, nutrient cycles, marine resources, and environmental concerns. Three lecture and three laboratory hours per week. Scheduled field trips required.
Carolina Core: SCI
MSCI 210 - Oceans and Society (3 Credits)
A nontechnical introduction to human interactions with the marine environment: marine organisms, marine systems, and the physical and chemical characteristics of oceans and estuaries. Not available for marine science major credit.

Carolina Core: SCI

MSCI 210L - Oceans and Society Laboratory (1 Credit)
Experiments and exercises which illustrate how specific components of marine environments are structured, function, and can be measured. Two laboratory hours per week. Not available for marine science major credit. Attendance on designated field trips may be required.

Prerequisite or Corequisite: MSCI 210.

Carolina Core: SCI

MSCI 215 - Coastal Environments of the Southeastern US (3 Credits)
Coastal zones of South Carolina and neighboring states, including geologic history, geomorphology, stratigraphy, hydrogeology, shoreline processes, environmental issues, and impact. Three lecture hours each week plus optional field trips. Not available for marine science major credit.

Carolina Core: SCI

MSCI 215L - Coastal Environments of the Southeastern U.S. (Laboratory) (1 Credit)
Exercises examining coastal ecology, geomorphology, hydrogeology, shoreline processes, environmental issues, and human impact. Two laboratory hours per week. Scheduled field trips required. Not available for marine science major credit.

Prerequisite or Corequisite: MSCI 215.

Cross-listed course: GEOL 215L

MSCI 305 - Ocean Data Analysis (3 Credits)
Instrumentation, oceanographic time series, spatial and directional data sets, and basic parametric modeling.

Prerequisites: MSCI 101 and MATH 141.

Graduation with Leadership Distinction: GLD: Research

MSCI 311 - Biology of Marine Organisms (4 Credits)
Biological concepts emphasizing adaptation to marine environments. Laboratory experiments emphasize principles and techniques of marine biological study. Three lecture and three laboratory hours per week. Scheduled field trips are required.

Prerequisites: MSCI 102 or BIOL 101.

MSCI 312 - Physical and Chemical Oceanography (4 Credits)
Properties of seawater, mass balances, biogeochemical cycles, circulation, mixing, waves and tides, continental shelf processes, estuarine dynamics. Three lecture and three laboratory hours per week. Scheduled field trips are required.

Prerequisites: MSCI 101, MSCI 102, MATH 142, CHEM 112, PHYS 201 or PHYS 211.

MSCI 313 - The Chemistry of the Sea (4 Credits)
Biogeochemical cycling, carbonate chemistry, climate change, hydrothermal vents, stable isotopes, trace metals, radioactive tracers, mass balance, and properties of sea water. Three lecture and three laboratory hours per week.

Prerequisites: MSCI 101, CHEM 111, MATH 141.

Prerequisite or Corequisite: CHEM 112.

MSCI 314 - Physical Oceanography (4 Credits)
Properties of seawater, mass and momentum balances, circulation, mixing, waves and other processes in the marine environment.

Prerequisites: MSCI 101, MATH 141 and PHYS 201 or PHYS 211.

MSCI 335 - Processes of Global Environmental Change (4 Credits)
The science of global change, its relation to the hydrosphere, atmosphere, lithosphere, and biosphere. Global system science, biogeochemical cycles, paleoclimatology, glaciation, and eustacy.

Cross-listed course: GEOL 335

MSCI 375 - The Deep Sea (3 Credits)
The Deep Sea is an interdisciplinary, scientific survey of the geology, biology, chemistry, and physical setting of the deep-sea (more than 1000 m depth).

MSCI 390 - Policy and Marine Science (3 Credits)
Analysis of past and current issues in global and national marine policy. Relationship between science and policymakers.

MSCI 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

MSCI 450 - Principles of Biological Oceanography (3 Credits)
Principles and methods of measuring production in the sea. Emphasis on the ocean's role in the global carbon budget. Three lecture hours per week. Scheduled field trips are required.

Prerequisites: MSCI 311, BIOL 301.

Cross-listed course: BIOL 450

MSCI 460 - Field and Laboratory Investigations in Marine Science (4 Credits)
Intensive inquiry-based investigations combining oceanographic field sampling with laboratory measurements of collected samples using modern analytical instrumentation, and with analysis and integration of data into a final research report. Course conducted in residence at a marine field site.

Prerequisites: MSCI 311, MSCI 313 and MSCI 314.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

MSCI 495 - Internship in Marine Science (0-6 Credits)
Internship experience that offers practical field or laboratory experience in oceanography and/or related marine sciences. Course content varies and will be announced by title in schedule of courses. Usually conducted off campus and student must be able to access internship on their own.

Prerequisites: C or better in MSCI 311, MSCI 313 and MSCI 314.

MSCI 496 - Undergraduate Research (3 Credits)
Student research on problems of fundamental significance in collaboration with faculty mentors. Emphasis on critical thinking, problem solving, proposal development, scientific writing, and professional presentation. Nine hours of laboratory, field, or library work per week.

Graduation with Leadership Distinction: GLD: Research

MSCI 497 - Undergraduate Research (3 Credits)
Student research on problems of fundamental significance in collaboration with faculty mentors. Emphasis on critical thinking, problem solving, proposal development, scientific writing, and professional presentation. Nine hours of laboratory, field, or library work per week.

Graduation with Leadership Distinction: GLD: Research
MSCI 498 - Undergraduate Research (3 Credits)
Student research on problems of fundamental significance in collaboration with faculty mentors. Emphasis on critical thinking, problem solving, proposal development, scientific writing, and professional presentation. Nine hours of laboratory, field, or library work per week.
Graduation with Leadership Distinction: GLD: Research

MSCI 499 - Undergraduate Research (3 Credits)
Student research on problems of fundamental significance in collaboration with faculty mentors. Emphasis on critical thinking, problem solving, proposal development, scientific writing, and professional presentation. Nine hours of laboratory, field, or library work per week.
Graduation with Leadership Distinction: GLD: Research

MSCI 501 - Principles of Geomorphology (3 Credits)
The process of earth denudation with emphasis on chemistry of weathering, stream and erosion hydraulics, quantitative analysis of land form evolution.
Prerequisites: GEOL 101 and GEOL 102.
Cross-listed course: GEOL 501

MSCI 502 - Principles of Coastal Geomorphology (4 Credits)
Geological and physical controls on the morphology, development, and stability of coastlines. Analysis of waves and erosional processes, and coastal zone morphodynamics. Several required field trips.
Prerequisite or Corequisite: MATH 122 or MATH 141.
Cross-listed course: GEOL 502

MSCI 503 - Environmental Microbiology (3 Credits)
An overview of the microbial world including a survey of the distribution, functioning, and diversity of microorganisms in natural systems. Discusses the crucial roles that microorganisms play in ecosystem function, biogeochemical cycles, and environmental quality.
Prerequisites: MSCI 102 or BIOL 102, CHEM 112.
Cross-listed course: BIOL 502

MSCI 505 - Senior Seminar (1 Credit)

MSCI 509 - MATLAB-Based Data Analysis in Ocean Sciences (3 Credits)
MATLAB-based course in processing, analysis, and visualization of large oceanographic data sets. Includes scalar and vector time series measured at fixed locations as well as shipboard surveys of oceanographic characteristics varying both in 3-D and in time. Methods and techniques are relevant to other geoscience disciplines.
Prerequisites: MATH 141.
Cross-listed course: BIOL 509

MSCI 510 - Invertebrate Zoology (4 Credits)
Phylogenetic and comparative aspects of anatomy, physiology, reproduction, and embryology of the invertebrates. Three lecture and one three-hour laboratory period per week.
Prerequisites: BIOL 301 or MSCI 311.
Cross-listed course: BIOL 510

Graduation with Leadership Distinction: GLD: Research

MSCI 511 - Advanced Paleontology (3 Credits)
Systematic, ecologic, biogeographic, and evolutionary aspects of paleontology. Lectures, practical exercises, occasional field trips.
Prerequisites: GEOL 311.
Cross-listed course: GEOL 511

MSCI 515 - Marine Micropaleontology (4 Credits)
Marine microfossils; distribution, ecology, paleoecology, and biostratigraphy; use of microfossils in marine sediments to study oceanographic history. Three lectures and two laboratory hours per week.
Cross-listed course: GEOL 515

MSCI 521 - Introduction to Geochemistry (3 Credits)
Investigation of low temperature chemical reactions controlling the geochemistry of the earth's surface. Emphasis on CO2, carbonates, oxidation reduction, thermodynamics, isotopes, biogeochemistry.
Cross-listed course: GEOL 521

MSCI 524 - Environmental Radioisotope Geochemistry (3 Credits)
Introduction to radioactivity and the use of radionuclides to study environmental processes, including age-dating and biogeochemical cycling in aquatic systems. Two lectures per week.
Prerequisites: CHEM 111, CHEM 112, MATH 141.

MSCI 525 - Marine Plants (4 Credits)
Diversity, distribution, physiology, ecology, evolution, and economic importance of marine algal, seagrass, and mangrove communities. Three lecture and three laboratory hours per week. Scheduled field trips are required.
Prerequisites: BIOL 301 or MSCI 311.
Cross-listed course: BIOL 525

MSCI 535 - Fishery Management (3 Credits)
Management and conservation of aquatic and marine resources, with emphasis on fisheries. Data procurement and analysis; commercial and recreational fisheries; sociological, political, legal, and environmental factors that affect fishery management; and fish biodiversity.
Prerequisites: BIOL 301.
Cross-listed course: BIOL 535

MSCI 536 - Ichthyology (4 Credits)
Phylogeny, morphology, behavior, and ecology of fishes. Three lecture and 3 laboratory hours plus three field trips to be arranged.
Prerequisites: BIOL 301 or MSCI 311.
Cross-listed course: BIOL 536

Graduation with Leadership Distinction: GLD: Research

MSCI 537 - Aquaculture (3 Credits)
Introduction to the practical and scientific aspects of the commercial culture of freshwater and marine organisms. Three lecture hours per week. One all-day field trip required.
Prerequisites: BIOL 301 or MSCI 311.

MSCI 538 - Behavior of Marine Organisms (4 Credits)
The identification of behavioral adaptations of estuarine and marine organisms: their ecology, physiology, development, and evolutionary history; field observations.
Prerequisites: BIOL 101 and BIOL 102 or MSCI 311.
Cross-listed course: BIOL 538

Graduation with Leadership Distinction: GLD: Research

MSCI 545 - Geological Oceanography (3 Credits)
A comprehensive study of the origin and development of the major structural features of the ocean basins and the continental margins. Discussion of the techniques used in obtaining geologic data and the interpretation of sedimentary processes, vulcanism, and the stratigraphy of the ocean basins.
Cross-listed course: GEOL 545
MSCI 550 - Sedimentary Simulations and Sequence Stratigraphy (4 Credits)
Problems of sequence stratigraphy resolved with graphic computer simulations. Sedimentary fill of basins by carbonates and/or clastics tracked as a function of rate of sediment accumulation, tectonic behavior and sea level. Includes laboratory.
Prerequisites: GEOL 301.
Cross-listed course: GEOL 550

MSCI 552 - Population Genetics (3 Credits)
An introduction to the principles of population genetics, with emphasis on the origin, maintenance, and significance of genetic variation in natural populations.
Prerequisites: BIOL 301, MSCI 311, and BIOL 303.
Cross-listed course: BIOL 552
Graduation with Leadership Distinction: GLD: Research

MSCI 553 - Marine Sediments (3 Credits)
Marine sedimentary environments; physical/biological factors which control the formation and distribution of modern marine sediments.
Prerequisites: GEOL 516.
Cross-listed course: GEOL 553

MSCI 555 - Conservation and Health in Marine Systems (3 Credits)
Introduces the field of conservation and explores the intersection between conservation and environmental health with a particular focus on coastal and marine case studies.

MSCI 557 - Coastal Processes (3 Credits)
Physical and geological processes controlling the formation and evolution of beach, barrier, and nearshore environments, including discussion of coastal management issues.
Cross-listed course: GEOL 557

MSCI 556 - Ecosystem Analysis (3 Credits)
The formulation and simulation of compartment models of marine and terrestrial ecosystems with complex nutrient cycling, food chains, and energy flow. Analog and digital simulation techniques. Ecosystem stability and sensitivity. Organization, structure, and diversity of an ecosystem.

MSCI 558 - Introduction to Micrometeorology (3 Credits)
Small-scale processes in the atmospheric boundary layers, including energy budget, radiation, soil heat transfer, humidity, viscous flows, turbulence, momentum and heat exchanges, evaporation, and marine atmospheric boundary layer.
Prerequisites: PHYS 201 and MATH 141.
Cross-listed course: GEOL 568

MSCI 574 - Marine Conservation Biology (3 Credits)
Exploration of how human activities affect marine natural populations, species, communities and ecosystems, including threats to biodiversity; approaches to marine conservation; and ecological and evolutionary responses to anthropogenic disturbance.
Prerequisites: BIOL 301.
Cross-listed course: BIOL 574

MSCI 575 - Marine Ecology (3 Credits)
Structure, dynamics, and interactions between populations and communities in marine ecosystems. Attendance at designated departmental seminars is required. Three lecture hours per week.
Prerequisites: CHEM 111 and BIOL 301 or MSCI 311.
Cross-listed course: BIOL 575

MSCI 575L - Marine Ecology Laboratory (1 Credit)
Laboratory and field exercises in coastal environments. Three hours per week plus field trips.
Prerequisite or Corequisite: MSCI 575.
Cross-listed course: BIOL 575L

MSCI 576 - Marine Fisheries Ecology (3 Credits)
Interdisciplinary examination of the distribution, reproduction, survival, and historical variation of the principal commercial marine fisheries.
Prerequisites: BIOL 301.
Cross-listed course: BIOL 576

MSCI 577 - Ecology of Coral Reefs (4 Credits)
Structure, productivity, and biodiversity of coral reefs, emphasizing their sensitivity, stability, and sustainability. Taught as an extended field experience with daily lectures and guided research activities.
Prerequisites: BIOL 301 or MSCI 311.
Cross-listed course: BIOL 577

MSCI 578 - Physiological and Pollution Ecology of Marine Organisms (3 Credits)
Functional adaptation of marine plants and animals to ecological stresses including pollution. Three lecture hours per week.
Prerequisites: MSCI 311 or equivalent.

MSCI 579 - Air-Sea Interaction (3 Credits)
The physical mechanism responsible for interaction between the ocean and the atmosphere and the influence of air-sea interaction on atmospheric and oceanic dynamics and thermodynamics on a wide variety of spatial/temporal scales.
Cross-listed course: GEOL 579

MSCI 580 - Satellite Oceanography (3 Credits)
This course provides knowledge of various techniques used in satellite remote sensing of the oceans. Key skills will be developed in satellite data processing, image analysis, and hands-on research.
Cross-listed course: GEOL 580

MSCI 581 - Estuarine Oceanography (3 Credits)
Estuarine kinematics and dynamics; classification of estuaries; estuarine circulation and mixing. Scheduled field trips are required.
Prerequisites: MSCI 314.
Cross-listed course: GEOL 581

MSCI 582 - Marine Hydrodynamics (3 Credits)
Basic principles of fluid statics and dynamics. Conservation of mass, momentum, and energy; viscosity, vorticity, and boundary layers with examples from the marine environment. Applications to and analysis of ocean currents and waves.
Prerequisites: differential equations, PHYS 201 or PHYS 211.
Cross-listed course: GEOL 582
MCSI 583 - Geology and Geochemistry of Salt Marshes (3 Credits)
Geological and geochemical processes in salt marshes. Methods of geological research in marshes including instrumental techniques, sampling design, and data analysis. Two lectures per week plus four weekends of project oriented fieldwork and/or equivalent lab work. Scheduled field trips are required. Cross-listed course: GEOL 583

MCSI 585 - Coastal Tropical Oceanography (4 Credits)
Descriptive oceanography of mangrove and coral reef coasts with emphasis on physical processes. Taught as an extended field experience with daily lectures and guided research activities. Prerequisites: MSCI 312.

MCSI 590 - Beach-Dune Interactions (3 Credits)
Influence of wind on coastal systems, with emphasis on nearshore currents, sediment transport and bedforms, aeolian transport, and dunes. Minimum Junior standing required. Cross-listed course: GEOG 590

MCSI 599 - Topics in Marine Science (1-3 Credits)
Current developments in marine science selected to meet faculty and student interests. Course content varies and will be announced by title in schedule of courses.

MCSI 624 - Aquatic Chemistry (3 Credits)
Study of the chemical reactions and processes affecting the distribution of chemical species in natural systems. Three lecture hours per week. Prerequisite or Corequisite: CHEM 321, MATH 142.

Cross-listed course: CHEM 624

MCSI 627 - Marine Phytoplankton (3 Credits)
Examines the physiology and ecology of phytoplankton, including environmental controls on community composition, primary productivity, and detection and characterization of water quality (eutrophication) and harmful algal blooms. Prerequisites: MSCI 102 or MSCI 450 or BIOL 450.

Cross-listed course: BIOL 627

Environmental Science, B.S.

Learning Outcomes
- Students will demonstrate their knowledge of fundamental concepts in environmental sciences.
- Students will be able to utilize information from more than one discipline related to environmental science, and be able to synthesize that information to analyze interdisciplinary environmental problems.
- Students will demonstrate strong analytical writing skills.
- Students will demonstrate strong oral communication skills.

Admission, Progression and Transfer Standards
1. Any student applying for transfer to the environmental science major from other programs within the University, or from accredited colleges and universities, is required to have a minimum grade point average of 2.80 on a 4.00 scale.
2. Environmental Science majors may enroll in an environmental science course a maximum of two times to earn the required grade of C or higher. For the purposes of this standard of progression, withdrawal with a W does not constitute enrollment.

Special Opportunities
The major endorses the use of independent study courses to further students’ intellectual pursuits in alternative ways. Before students may register for an independent study course, they must submit a completed independent study contract which has been approved by the major advisor and the Director of Undergraduate Studies. (No student may apply more than 6 hours of independent study credits toward the degree. A grade-point average of 2.5 or greater is required to enroll in independent study courses.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UoFSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UoFSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (128 hours)

Program of Study

<table>
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<tr>
<th>Requirements</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-46</td>
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<tr>
<td>2. College Requirements</td>
<td>15:18</td>
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<tr>
<td>3. Program Requirements</td>
<td>28-45</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>34-46</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (8 hours)

- MATH 141 must be passed with a grade of C or higher
- MATH 142
SCI – Scientific Literacy (8 hours)
- BIOL 101 & BIOL 101L or MSCI 101
- BIOL 102 & BIOL 102L or MSCI 102

Note: Must take either both BIOL or both MSCI.

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- POLI 201

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
- any overlay or stand-alone CC-CMS (p. 743) course

INF – Information Literacy (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)
- fulfilled through POLI 201, an overlay course with GSS, or may be filled by any overlay or stand-alone CC-VSR course

2. College Requirements (15-18 hours)
Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>STAT 515</td>
<td>Statistical Methods I (or higher)</td>
<td>3</td>
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<tr>
<td>CSCE 102</td>
<td>General Applications Programming ¹</td>
<td>3</td>
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<td>Total Credit Hours</td>
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¹ or a higher level CSCE course

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science (3 hours)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON 221</td>
<td>Principles of Microeconomics</td>
<td>3</td>
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<tr>
<td>ECON 223</td>
<td>Introduction to Economics</td>
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<td>ECON 224</td>
<td>Introduction to Economics</td>
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Fine Arts or Humanities (3 hours)
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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ENVR 322</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 312</td>
<td>Classical Origins of Western Medical Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 320</td>
<td>Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Medical Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 322</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 323</td>
<td>Ethics of Science and Technology</td>
<td></td>
</tr>
<tr>
<td>PHIL 324</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 325</td>
<td>Engineering Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 360</td>
<td>History and Philosophy of Science</td>
<td></td>
</tr>
<tr>
<td>PHIL 514</td>
<td>Ethical Theory</td>
<td></td>
</tr>
<tr>
<td>PHIL 550</td>
<td>Health Care Ethics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Program Requirements (28-45 hours)
Supporting Courses (27 hours)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>and General Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 112L</td>
<td>and General Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introduction to the Earth</td>
<td></td>
</tr>
<tr>
<td>GEOL 201</td>
<td>Observing the Earth</td>
<td></td>
</tr>
<tr>
<td>GEOG 201</td>
<td>Landform Geography</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; 201L</td>
<td>and General Physics Laboratory I</td>
<td></td>
</tr>
</tbody>
</table>
of Undergraduate Studies.

modifications to the program of study require the approval of the Director of C is required for all courses used to fulfill major requirements. Any program of study in consultation with their advisor. A minimum grade to the required 34-36 hours total. Students are required to develop a complete 17-18 additional hours in major elective courses to bring them which must include the core requirements of 17-18 hours. Majors must All majors must complete at least 34-36 hours of approved courses

4. Major Requirements (34-36 hours)

A minimum grade of C is required in all major courses.

Major Courses (17-18 hours)

All majors must complete at least 34-36 hours of approved courses which must include the core requirements of 17-18 hours. Majors must complete 17-18 additional hours in major elective courses to bring them to the required 34-36 hours total. Students are required to develop a program of study in consultation with their advisor. A minimum grade of C is required for all courses used to fulfill major requirements. Any modifications to the program of study require the approval of the Director of Undergraduate Studies.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 301</td>
<td>Ecology and Evolution</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 301L</td>
<td>and Ecology and Evolution Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENVR 590</td>
<td>Environmental Issues Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following: 10-11

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 580</td>
<td>Environmental Pollution and Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 582</td>
<td>Integrating Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 583</td>
<td>Energy, Society and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 587</td>
<td>Independent Study</td>
<td>1-6</td>
</tr>
<tr>
<td>ENVR 588</td>
<td>Congaree National Park: Field Investigations in Environmental Science</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 589</td>
<td>Special Topics in Sustainability and the Environment</td>
<td>1-4</td>
</tr>
<tr>
<td>ENVR 590</td>
<td>Research in Environmental Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ENVR 591</td>
<td>Environmental Practicum</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 592</td>
<td>Special Topics in the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 593</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 594</td>
<td>Freshwater Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>Environmental Pollution and Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>Principles of Ecology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 653</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 654</td>
<td>Marine Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 655</td>
<td>Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 656</td>
<td>Plant Responses to the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 657</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 658</td>
<td>Concepts of Environmental Health Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 659</td>
<td>Weather and Climate</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 660</td>
<td>Surface and Near Surface Processes</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 17-18

Major Electives (17-18 hours)

Students, in consultation with their assigned advisor, must develop a program of study which either provides a broad set environmental science courses or allows students to focus in a defined area. Given the current course offerings and faculty expertise at the University, if a student wanted to focus their elective course work, possible areas include: Natural Systems, Climate and Weather, Water Resources, Energy, or Humans and the Environment. All Students’ elective courses should include at least 6 hours taken at the 400 level or above. All courses may be selected from ENVR designator classes, but if not ENVR classes, then no more than 3 should be from a single discipline and no more than one Research Methods course.

Courses Acceptable for Major Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 302</td>
<td>Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 420</td>
<td>Survey of the Plant Kingdom</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 420L</td>
<td>Survey of the Plant Kingdom Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 460</td>
<td>Advanced Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 541</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 541L</td>
<td>Biochemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 549</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 570</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 570L</td>
<td>Principles of Ecology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 571</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 572</td>
<td>Freshwater Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 640</td>
<td>Marine Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 660</td>
<td>Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 671</td>
<td>Plant Responses to the Environment</td>
<td>3</td>
</tr>
</tbody>
</table>
Other BIOL courses may be selected as approved by student's advisor

CHEM 321 Quantitative Analysis 3
CHEM 321L Quantitative Analysis Laboratory 1
CHEM 333 Organic Chemistry I 3
CHEM 333L Comprehensive Organic Chemistry Laboratory I 2
CHEM 334 Organic Chemistry II 3
CHEM 334L Comprehensive Organic Chemistry Laboratory II 2
CHEM 623 Introductory Environmental Chemistry 3
CHEM 624 Aquatic Chemistry 3

From the Earth and Marine Sciences

GEOL 302 Rocks and Minerals 4
GEOL 305 Earth Systems through Time 4
GEOL 315 Surface and Near Surface Processes 4
GEOL 335 Processes of Global Environmental Change 4
GEOL 371 A View of the River 3
GEOL 524 Environmental Radioisotope Geochemistry 3
GEOL 548 Environmental Geophysics 4
GEOL 557 Coastal Processes 3
GEOL 560 Earth Resource Management 3
GEOL 570 Environmental Hydrogeology 3
GEOL 571 Soil Hydrology 4
GEOL 575 Numerical Modeling for Earth Science Applications 3
GEOL 581 Estuarine Oceanography 3

Other GEOL courses may be selected as approved by student's advisor

Msci 305 Ocean Data Analysis 3
Msci 311 Biology of Marine Organisms 4
Msci 313 The Chemistry of the Sea 4
Msci 450 Principles of Biological Oceanography 3
Msci 521 Introduction to Geochemistry 3
Msci 552 Population Genetics 3
Msci 566 Ecosystem Analysis 3
Msci 575 Marine Ecology 3
Msci 579 Air-Sea Interaction 3
Msci 582 Marine Hydrodynamics 3

From Geography

GEOG 202 Weather and Climate 4
GEOG 343 Environment and Society 3
GEOG 346 Climate and Society 3
GEOG 347 Water as a Resource 3
GEOG 348 Biogeography 3
GEOG 349 Cartographic Animation 3
GEOG 360 Geography of Wind 3
GEOG 363 Geographic Information Systems 3
GEOG 365 Hurricanes and Tropical Climatology 3
GEOG 371 Air Pollution Climatology 3
GEOG 530 Environmental Hazards 3
GEOG 545 Synoptic Meteorology 4
GEOG 546 Applied Climatology 4
GEOG 547 Fluvial Geomorphology 3
GEOG 549 Water and Watersheds 3

GEOG 551 Principles of Remote Sensing 3
GEOG 554 Spatial Programming 3
GEOG 562 Satellite Mapping and the Global Positioning System 3
GEOG 563 Advanced Geographic Information Systems 3
GEOG 564 GIS-Based Modeling 3
GEOG 567 Long-Term Environmental Change 3
GEOG 568 Human Dimensions of Global Environmental Change 3
GEOG 569 International Development and the Environment 3
GEOG 570 Geography of Public Land and Water Policy 3
GEOG 571 Microclimatology 4
GEOG 573 Climatic Change and Variability 3
GEOG 575 Digital Techniques and Applications in Remote Sensing 3

Other GEOG courses may be selected as approved by the student's advisor

From Mathematics, Statistics, and Engineering

CSCE 206 Scientific Applications Programming 3
CSCE 567 Visualization Tools 3
ECHE 300 Chemical Process Principles 3
ECHE 310 Introductory Chemical Engineering Thermodynamics 3
ECHE 311 Chemical Engineering Thermodynamics 3
ECHE 567 Process Safety, Health and Loss Prevention 3
ECHE 573 Next Energy 3
ECHE 589 Special Advanced Topics in Chemical Engineering 3
ECIV 350 Introduction to Environmental Engineering 3
ECIV 350L Introduction to Environmental Engineering Laboratory 1
ECIV 362 Introduction to Water Resources Engineering 3
ECIV 405 System Applications in Civil Engineering 3
ECIV 551 Elements of Water and Wastewater Treatment 3
ECIV 555 Principles of Municipal Solid Waste Engineering 3
ECIV 556 Air Pollution Control Engineering 3
ECIV 557 Sustainable Construction for Engineers 3
ECIV 558 Environmental Engineering Process Modeling 3
ECIV 560 Open Channel Hydraulics 3
ECIV 562 Engineering Hydrology 3
ECIV 563 Subsurface Hydrology 3
ECIV 570 Land Development for Engineers 3
EMCH 290 Thermodynamics 3
EMCH 529 Sustainable Design and Development 3
EMCH 553 Nuclear Fuel Cycles 3
EMCH 592 Introduction to Combustion 3
EMCH 594 Solar Heating 3
EMCH 597 Thermal Environmental Engineering 3
ENCP 290 Thermodynamic Fundamentals 3
ENCP 540 Environmentally Conscious Manufacturing 3
MATH 241 Vector Calculus 3
MATH 242 Elementary Differential Equations 3
MATH 523 Mathematical Modeling of Population Biology 3
STAT 516 Statistical Methods II 3
Environmental Science, B.S.

Environmental Studies Minor

The minor in Environmental Studies consists of a minimum of 18 hours.
Four courses (12-13 hours) make up the required core. The remaining
hours (six) must come from the approved course list. Students wishing
to enter the Environmental Studies minor must first complete
ENVR 101 and ENVR 101L as a prerequisite. A course in Statistics (STAT 110 or
equivalent) is strongly recommended. All prerequisite courses may be
used to meet general education requirements, if applicable. Students
enrolled in the College of Arts and Sciences and College of Engineering
and Computing must choose their remaining hours from the courses
listed below specifically for them. No courses will be allowed to count for both
the minor in Environmental Studies and the student’s major. South Carolina Honors
College students are encouraged to pursue this course of study, but
Honors Pro-seminars in environmentally related subjects used for
credit toward the major must be approved by the Environment and
Sustainability Undergraduate Committee.

A student may pursue a minor in Environmental Studies with the
academic advisor’s approval. The student must declare the selection of
the minor in the office of the student’s major academic dean.

Minor Requirements

Prerequisite

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 101</td>
<td>Introduction to the Environment</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 101L</td>
<td>Introduction to the Environment Lab</td>
<td></td>
</tr>
</tbody>
</table>

A score of 3 or better on the AP Environmental Science exam.

Core Requirements (12-13 Hours)

Select one course from each group:

<table>
<thead>
<tr>
<th>Group</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>ENVR 321</td>
<td>Environmental Pollution and Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOG 343</td>
<td>Environment and Society</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>GEOL 215</td>
<td>Coastal Environments of the Southeastern U.S.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOL 205</td>
<td>Earth Resources</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>POLI 477</td>
<td>Green Politics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>POLI 478</td>
<td>Environmental Policy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHIL 322</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENVR 548</td>
<td>Environmental Economics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 500</td>
<td>Urban Economics</td>
<td></td>
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<tr>
<td></td>
<td>ECON 508</td>
<td>Law and Economics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 12-13

Additional Requirements Selected from List of Approved Courses (6 Hours)

College of Arts and Sciences (B.S. degrees) or College of Engineering and Computing Majors

Selectives for students pursuing a Bachelor of Science degree in the College of Arts and Sciences or College of Engineering and Computing:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 565</td>
<td>Health and Disease in the Past</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 399</td>
<td>Independent Study</td>
<td>1-6</td>
</tr>
<tr>
<td>GEOG 346</td>
<td>Climate and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 347</td>
<td>Water as a Resource</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 360</td>
<td>Geography of Wind</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 516</td>
<td>Coastal Zone Management</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 530</td>
<td>Environmental Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 566</td>
<td>Social Aspects of Environmental Planning and Management</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 568</td>
<td>Human Dimensions of Global Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 569</td>
<td>International Development and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GERM 295</td>
<td>Green Technology in Germany</td>
<td>3</td>
</tr>
<tr>
<td>HIST 448</td>
<td>American Environmental History</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 507</td>
<td>Communicating Science, Health and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>POLI 368</td>
<td>Interest Groups and Social Movements</td>
<td>3</td>
</tr>
</tbody>
</table>
Environmental Studies, B.A.

Learning Outcomes

- Students will demonstrate their knowledge of fundamental concepts in environmental studies.
- Students will be able to utilize information from more than one discipline related to environmental studies, and be able to synthesize that information to analyze interdisciplinary environmental problems.
- Students will demonstrate effective writing skills.
- Students will demonstrate effective oral communication skills.

Admission, Progression and Transfer Standards

Environmental Studies majors may enroll in a course for major credit a maximum of twice to earn the required grade of C or higher. For the purposes of this standard of progression, withdrawal with a W does not constitute enrollment.

Special Opportunities

The major endorses the use of independent study courses to further students’ intellectual pursuits in alternative ways. Before students may register for an independent study course, they must submit a completed independent study contract which has been approved by their major advisor and the Director of Undergraduate Studies. No student may apply more than 6 hours of independent study credits toward the degree. A grade-point average of 2.50 or greater is required to enroll in independent study courses.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>21-37</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>36-37</td>
</tr>
</tbody>
</table>

1. Carolina Core (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher and completed in the first 60 hours

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/)

SCI – Scientific Literacy (8 hours)

Select two from the following:

- BIOL 101 & BIOL 101L or MSCI 102
- BIOL 102 & BIOL 102L
- CHEM 111 & CHEM 111L
- GEOL 101
- GEOL 103
- MSCI 101

College of Arts and Sciences (B.A. degrees) and all other Schools and Colleges

Selectives for students pursuing a Bachelor of Arts degree in the College of Arts and Sciences and all other majors except those in the College of Engineering and Computing:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 301</td>
<td>Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 570</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 399</td>
<td>Independent Study</td>
<td>1-6</td>
</tr>
<tr>
<td>GEOG 436</td>
<td>Climate and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 360</td>
<td>Geography of Wind</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 347</td>
<td>Water as a Resource</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 371</td>
<td>Air Pollution Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 560</td>
<td>Source Materials for Geographic Instruction</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 561</td>
<td>Contemporary Issues in Geography Education</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 570</td>
<td>Geography of Public Land and Water Policy</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 390</td>
<td>Policy and Marine Science</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 350</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 551</td>
<td>Elements of Water and Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 540</td>
<td>Environmentally Conscious Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ENHS 660</td>
<td>Concepts of Environmental Health Science</td>
<td>3</td>
</tr>
<tr>
<td>STAT 519</td>
<td>Sampling</td>
<td>3</td>
</tr>
</tbody>
</table>
• MSCl 210
• PHYS 201 & PHYS 201L or PHYS 211 & PHYS 211L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)

• any overlay or stand-alone CC-CMS (p. 743) course

INF – Information Literacy ¹ (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)

• any overlay or stand-alone CC-VSR course (https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/)

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

• only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)

- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
- Select 3 hours of Social Science
- Select 9 hours of Fine Arts or Humanities

3. Program Requirements (21-37 hours)

Supporting Courses (4 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101 &amp; 101L</td>
<td>Biological Principles I and Biological Principles I Laboratory or MSCI 102 The Living Ocean</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 102 &amp; 102L</td>
<td>Biological Principles II and Biological Principles II Laboratory or MSCI 311 Biology of Marine Organisms</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 111 &amp; 111L</td>
<td>General Chemistry I and General Chemistry I Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 101 &amp; 101L</td>
<td>Introduction to the Environment and Introduction to the Environment Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introduction to the Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 103</td>
<td>Environment of the Earth</td>
<td>4</td>
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<tr>
<td>GEOL 201</td>
<td>Observing the Earth</td>
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<tr>
<td>MSCI 101</td>
<td>The Ocean Environment</td>
<td>4</td>
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<tr>
<td>MSCI 210</td>
<td>Oceans and Society</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 201 &amp; 201L</td>
<td>General Physics I and General Physics Laboratory I or PHYS 211 Essentials of Physics I</td>
<td>4</td>
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</table>

Total Credit Hours 4

Note: BIOL 301 is required for MSCI 311

Minor (18 hours) Optional

A student in the Environmental Studies major may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.
The minor is intended to develop a coherent basic preparation in a second area of study. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (13-30 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (36-37 hours)

a minimum grade of C is required in all major courses

Major Courses (27 hours)

All majors must complete at least 36-37 hours of approved courses, including the core requirements of 27 hours. Majors must complete enough additional hours from the selected courses to bring them to the required 36-37 hours total. Students are required to develop a program of study in consultation with their advisor. A minimum grade of C is required for all courses used to fulfill major requirements.

Please see current University of South Carolina undergraduate course catalog for information about prerequisites required to enroll in many of these courses.

<table>
<thead>
<tr>
<th>Course</th>
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<td>Environmental Science and Policy I</td>
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<td>Environmental Science and Policy II</td>
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<td>ENVR 590</td>
<td>Environmental Issues Seminar</td>
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Environmental and Society- Select two from the following: 6

<table>
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<td>ENVR/ENHS 321</td>
<td>Environmental Pollution and Health</td>
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<td>ENVR/PHIL 322</td>
<td>Environmental Ethics</td>
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<td>ENVR 331</td>
<td>Integrating Sustainability</td>
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<tr>
<td>ENVR/ANTH 342</td>
<td>Environmental Anthropology: Cross-cultural</td>
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<tr>
<td></td>
<td>Perspectives on Environmental Change</td>
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<tr>
<td>ENVR 348</td>
<td>Environmental Racism and Justice</td>
<td></td>
</tr>
<tr>
<td>ENVR 352</td>
<td>Energy, Society and Sustainability</td>
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<tr>
<td>ENVR 540</td>
<td>Decolonizing the Environment: Race, Nature, Power</td>
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<tr>
<td>ENVR 548</td>
<td>Environmental Economics</td>
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<tr>
<td>ENVR/GEOG 538</td>
<td>Global Food Politics</td>
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<tr>
<td>HIST 360</td>
<td>Into the Wild: Global Conservation since 1800</td>
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<td>HIST 448</td>
<td>American Environmental History</td>
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<td>POLI 478</td>
<td>Environmental Policy</td>
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<td>MSCI 390</td>
<td>Policy and Marine Science</td>
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<tr>
<td>ENGL 434</td>
<td>Environmental Literature</td>
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<tr>
<td>GEOG 321</td>
<td>Sustainable Cities</td>
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<td>GEOG 343</td>
<td>Environment and Society</td>
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<tr>
<td>GEOG 347</td>
<td>Water as a Resource</td>
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<tr>
<td>GEOL 560</td>
<td>Earth Resource Management</td>
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<tr>
<td>ANTH 525</td>
<td>Ethnoecology</td>
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Laboratory Science-Select one of the following: 4

<table>
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<tr>
<td>BIOL 301</td>
<td>Ecology and Evolution</td>
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<tr>
<td>&amp; 301L</td>
<td>and Ecology and Evolution Laboratory (Advising</td>
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<td></td>
<td>note: BIOL/MSCI prerequisites</td>
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<tr>
<td>GEOL/MSCI 335</td>
<td>Processes of Global Environmental Change</td>
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<tr>
<td>GEOL 315</td>
<td>Surface and Near Surface Processes (Advising</td>
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</tr>
<tr>
<td></td>
<td>note: PHYS prerequisite)</td>
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</tr>
<tr>
<td>GEOG 202</td>
<td>Weather and Climate</td>
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</table>

Skills-Select one of the following 3-4

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>ENVR 460</td>
<td>Congaree National Park: Field Investigations in</td>
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<tr>
<td></td>
<td>Environmental Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 363</td>
<td>Geographic Information Systems</td>
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<tr>
<td>GEOG 551</td>
<td>Principles of Remote Sensing</td>
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</tr>
<tr>
<td>JOUR 507</td>
<td>Communicating Science, Health and the</td>
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<tr>
<td></td>
<td>Environment</td>
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<tr>
<td>MART 371</td>
<td>The Moving Image (Advising note: this course</td>
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</tr>
<tr>
<td></td>
<td>has prerequisites which should be taken as AIU</td>
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<tr>
<td></td>
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<tr>
<td>POLI 475</td>
<td>Survey Research</td>
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<tr>
<td>SOCY 303</td>
<td>Sociological Research Methods</td>
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</table>

Total Credit Hours 24-25

Major Electives (minimum 12 hours)

Students, in consultation with their advisor, will develop a program of study to meet their educational goals in environmental studies courses.

- Students should select four courses from the list of major courses.
- At least six hours must be at 400-level or above.
- At least six hours must have an ENVR designator above ENVR 230.

Course   | Title                                           | Credits |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>ENVR 231</td>
<td>Introduction to Sustainability Management and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leadership</td>
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</tr>
<tr>
<td>ENVR 295</td>
<td>Green Technology in Germany</td>
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</tr>
<tr>
<td>ENVR/ENHS 321</td>
<td>Environmental Pollution and Health</td>
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<tr>
<td>ENVR/PHIL 322</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>ENVR/ENHS 323</td>
<td>Global Environmental Health</td>
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</tr>
<tr>
<td>ENVR 331</td>
<td>Integrating Sustainability</td>
<td></td>
</tr>
<tr>
<td>ENVR/ANTH 342</td>
<td>Environmental Anthropology: Cross-cultural</td>
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<td></td>
<td>Perspectives on Environmental Change</td>
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<tr>
<td>ENVR 348</td>
<td>Environmental Racism and Justice</td>
<td></td>
</tr>
<tr>
<td>ENVR 352</td>
<td>Energy, Society and Sustainability</td>
<td></td>
</tr>
<tr>
<td>ENVR 399</td>
<td>Independent Study</td>
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<tr>
<td>ENVR 399</td>
<td>Independent Study</td>
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Select four courses from the following (in consultation with advisor): 12

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<tbody>
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<td>Energy, Society and Sustainability</td>
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</tr>
<tr>
<td>ENVR 399</td>
<td>Independent Study</td>
<td></td>
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</tbody>
</table>

Course   | Title                                           | Credits |
<table>
<thead>
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<tbody>
<tr>
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<td>Leadership</td>
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<td>Environmental Ethics</td>
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<tr>
<td>ENVR/ENHS 323</td>
<td>Global Environmental Health</td>
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<td>ENVR 331</td>
<td>Integrating Sustainability</td>
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<td></td>
</tr>
<tr>
<td>ENVR 399</td>
<td>Independent Study</td>
<td></td>
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</tbody>
</table>
ENVR 460  Congaree National Park: Field Investigations in Environmental Science
ENVR 490  Special Topics in Sustainability and the Environment
ENVR 499  Research in Environmental Science
ENVR 500  Environmental Practicum
ENVR 501  Special Topics in the Environment
ENVR 533  Sustainability Projects Course
ENVR 538  Global Food Politics
ENVR 540  Decolonizing the Environment: Race, Nature, Power
ENVR/ECON 548  Environmental Economics
ENVR/BIOL 571  Conservation Biology
ENVR/BIOL 572  Freshwater Ecology
AFAM/ENVR 348  Environmental Racism and Justice
ANTH 208  Anthropology of Globalization and Development
ANTH 212  Food and Culture
ANTH 213  Ethnobotany: Plants and Peoples
ANTH 513  Anthropological Ethnobotany
ANTH 525  Ethnoecology
ANTH 569  International Development and the Environment
BIOL 301  Ecology and Evolution
BIOL 525  Marine Plants
BIOL 526  The Fall Flora
BIOL 527  The Spring Flora
BIOL 528  The Summer Flora
BIOL 534  Animal Behavior
BIOL 570  Principles of Ecology
BIOL/ENVR 571  Conservation Biology
BIOL/ENVR 572  Freshwater Ecology
ECHE 573  Next Energy
ECON 500  Urban Economics
ECON 508  Law and Economics
ECON 509  Economics of Sustainable Development
ECON 548  Environmental Economics
ECON 594  Introduction to Econometrics
ENGL 434  Environmental Literature
ENGL 462  Technical Writing
ENHS/ENVR 321  Environmental Pollution and Health
ENHS 592  Advanced Special Topics in Environmental Health
ENHS 660  Concepts of Environmental Health Science
ENHS 665  Biofilms in Environmental Health and Disease
ENHS 670  Environmental Pollutants and Human Health
GEOG 202  Weather and Climate
GEOG 313  Economic Geography
GEOG 321  Sustainable Cities
GEOG 330  The Geography of Disasters
GEOG 343  Environment and Society
GEOG 345  Interpretation of Aerial Photographs
GEOG 346  Climate and Society
GEOG 347  Water as a Resource
GEOG 348  Biogeography
GEOG 360  Geography of Wind
GEOG 363  Geographic Information Systems
GEOG 365  Hurricanes and Tropical Climatology
GEOG 370  America's National Parks
GEOG 371  Air Pollution Climatology
GEOG 510  Special Topics in Geographic Research
GEOG 516  Coastal Zone Management
GEOG 530  Environmental Hazards
GEOG 545  Synoptic Meteorology
GEOG 546  Applied Climatology
GEOG 547  Fluvial Geomorphology
GEOG 549  Water and Watersheds
GEOG 551  Principles of Remote Sensing
GEOG 552  LiDARgrammetric and Photogrammetric Digital Surface Mapping
GEOG 563  Advanced Geographic Information Systems
GEOG 564  GIS-Based Modeling
GEOG 566  Social Aspects of Environmental Planning and Management
GEOG 567  Long-Term Environmental Change
GEOG 568  Human Dimensions of Global Environmental Change
GEOG 569  International Development and the Environment
GEOG 570  Geography of Public Land and Water Policy
GEOG 571  Microclimatology
GEOG 573  Climatic Change and Variability
GEOL 302  Rocks and Minerals
GEOL 315  Surface and Near Surface Processes
GEOL 335  Processes of Global Environmental Change
GEOL 371  A View of the River
GEOL 501  Principles of Geomorphology
GEOL 520  Isotope Geology and Geochronology
GEOL 560  Earth Resource Management
GEOL 570  Environmental Hydrogeology
GERM/ENVR 295  Green Technology in Germany
HIST 360  Into the Wild: Global Conservation since 1800
HIST 398  Sustainability in World History from Early Times to the Anthropocene
HIST 448  American Environmental History
HRTM 383  Ecotourism
HRTM 428  Sustainable Foodservice Systems
HRTM 482  Sustainable Tourism Planning and Policy
HRTM 485  Sustainable Tourism
JOUR 205  History and Philosophy of the Mass Media
JOUR 303  Law and Ethics of Mass Communications
JOUR 306  Theories of Mass Communications


<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>JOUR/WGST 311</td>
<td>Minorities, Women, and the Mass Media</td>
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<tr>
<td>JOUR 501</td>
<td>Freedom, Responsibility, and Ethics of the Mass Media</td>
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<tr>
<td>JOUR 542</td>
<td>Public Opinion and Persuasion</td>
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<td>JOUR 507</td>
<td>Communicating Science, Health and the Environment</td>
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<tr>
<td>MART 321</td>
<td>Media Writing</td>
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<td>MART 371</td>
<td>The Moving Image</td>
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<td>MART 380</td>
<td>New Media Art</td>
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<td>Biology of Marine Organisms</td>
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<td>MSCI/GEOL 335</td>
<td>Processes of Global Environmental Change</td>
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<td>MSCI 390</td>
<td>Policy and Marine Science</td>
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<td>PHIL 320</td>
<td>Ethics</td>
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<td>PHIL 323</td>
<td>Ethics of Science and Technology</td>
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<td>PHIL 324</td>
<td>Business Ethics</td>
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<td>PHIL 535</td>
<td>Ecofeminism</td>
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<td>POLI 365</td>
<td>State Government</td>
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<td>POLI 368</td>
<td>Interest Groups and Social Movements</td>
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<td>POLI 370</td>
<td>Introduction to Public Administration</td>
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<td>POLI 373</td>
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<td>POLI 431</td>
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<td>POLI 465</td>
<td>Psychology and Politics</td>
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<td>POLI 470</td>
<td>Federalism and Intergovernmental Relations</td>
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<td>POLI 477</td>
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<td>POLI 478</td>
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<td>PSYC 487</td>
<td>Community Psychology</td>
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<td>SOCY 308</td>
<td>Community Organization</td>
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<td>SOCY 310</td>
<td>Social Demography</td>
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<td>SOCY 311</td>
<td>Ecology of Human Social Systems</td>
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<td>SOCY 315</td>
<td>Global Population Issues</td>
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<td>SOCY 514</td>
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<td>SPCH 331</td>
<td>Organizational Communication</td>
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<tr>
<td>SPCH 464</td>
<td>Speechwriting</td>
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Total Credit Hours: 12

### Geographical Sciences Minor

#### Minor Requirements

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</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introduction to the Earth</td>
<td></td>
</tr>
<tr>
<td>GEOL 103</td>
<td>Environment of the Earth</td>
<td></td>
</tr>
<tr>
<td>GEOL 201</td>
<td>Observing the Earth</td>
<td></td>
</tr>
<tr>
<td>GEOL 302</td>
<td>Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>CHEM 111 &amp; 111L</td>
<td>General Chemistry I &amp; General Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>PHYS 201 &amp; 201L</td>
<td>General Physics I &amp; General Physics Laboratory I</td>
<td></td>
</tr>
<tr>
<td>PHYS 211 &amp; 211L</td>
<td>Essentials of Physics I &amp; Essentials of Physics I Lab</td>
<td></td>
</tr>
<tr>
<td>Upper-level Geology Courses</td>
<td>Select three upper-level Geological Sciences courses, with at least two selected from the following:</td>
<td>12</td>
</tr>
<tr>
<td>GEOL 305</td>
<td>Earth Systems through Time</td>
<td></td>
</tr>
<tr>
<td>GEOL 315</td>
<td>Surface and Near Surface Processes</td>
<td></td>
</tr>
<tr>
<td>GEOL 325</td>
<td>Stratigraphy and Sedimentary Basins</td>
<td></td>
</tr>
<tr>
<td>GEOL 335</td>
<td>Processes of Global Environmental Change</td>
<td></td>
</tr>
<tr>
<td>GEOL 345</td>
<td>Igneous and Metamorphic Processes</td>
<td></td>
</tr>
<tr>
<td>GEOL 355</td>
<td>Structural Geology and Tectonics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours: 24

Note: PHYS 201 or PHYS 211 required for GEOL 355 and see MATH requirement for GEOL 345.

### Geographical Sciences, B.S.

The Bachelor of Science degree in Geographical Sciences concerns the study of the dynamics and physical history of the Earth, the rocks of which it is composed, and its physical, chemical, and biological changes.

#### Learning Outcomes

- Students will demonstrate their knowledge of fundamental concepts and laboratory skills in the geosciences by responding to written and laboratory-practical exam questions in at least one of the following courses: GEOL 302, GEOL 305, GEOL 315, GEOL 325, GEOL 335, GEOL 345, and GEOL 355.
- Students will demonstrate knowledge of geological field skills by demonstrating a competency at the proficiency level on a geologic mapping exercise, preferably the Sheep Mountain project, in GEOL 500.

### Admissions

#### Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of

Environmental Studies, B.A.
Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirement (34-46 hours)</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>24-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27-43</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirement (34-46 hours)

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- any CC-CMW courses (p. 743)

**ARP – Analytical Reasoning and Problem Solving (6-8 hours)**

- MATH 122 or MATH 141
- MATH 170 or MATH 142

**SCI – Scientific Literacy (8 hours)**

- CHEM 111 & CHEM 111L
- PHYS 201 & PHYS 201L or PHYS 211 & PHYS 211L

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

**Foreign Language (0-3 hours)**

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

- STAT 201 or STAT 509 or STAT 515
- CSCE 102 (or equivalent) or higher

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.
- or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.
Social Science and Fine Arts or Humanities (6 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Three hours of Fine Arts or Humanities

3. Program Requirements (24-46 hours)
Supporting Courses (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 101</td>
<td>Introduction to the Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEO 103</td>
<td>Environment of the Earth</td>
<td></td>
</tr>
<tr>
<td>GEO 201</td>
<td>Observing the Earth</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 202</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 202L</td>
<td>General Physics Laboratory II</td>
<td></td>
</tr>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II</td>
<td></td>
</tr>
<tr>
<td>&amp; 212L</td>
<td>Essentials of Physics Laboratory II</td>
<td></td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 112L</td>
<td>General Chemistry Laboratory II</td>
<td></td>
</tr>
<tr>
<td>BIOL 101</td>
<td>Biological Principles I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 101L</td>
<td>Biological Principles Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 102</td>
<td>Biological Principles II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 102L</td>
<td>Biological Principles Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 12

Cognate (12 hours)
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

Minor (18 hours) optional
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major.

Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

Minors are available in participating departments of the College of Arts and Sciences and in other colleges. For descriptions of specific minors, students should see the appropriate sections of the bulletin.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (0-22 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (27-43 hours)

a minimum grade of C is required in all major courses

Choose one of the following concentrations:

General Geology (28-30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 302</td>
<td>Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 325</td>
<td>Stratigraphy and Sedimentary Basins</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 345</td>
<td>Igneous and Metamorphic Processes</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 355</td>
<td>Structural Geology and Tectonics</td>
<td>4-6</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 305</td>
<td>Earth Systems through Time</td>
<td>8</td>
</tr>
<tr>
<td>GEOL 315</td>
<td>Surface and Near Surface Processes</td>
<td></td>
</tr>
<tr>
<td>GEOL 335</td>
<td>Processes of Global Environmental Change</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 28-30

General Geology Major in Environmental Geosciences (27-30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 302</td>
<td>Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 315</td>
<td>Surface and Near Surface Processes</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 325</td>
<td>Stratigraphy and Sedimentary Basins</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 335</td>
<td>Processes of Global Environmental Change</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 355</td>
<td>Structural Geology and Tectonics</td>
<td>4</td>
</tr>
</tbody>
</table>
Geological Sciences, BS

study and course selection and planning for upcoming semesters. For assistance in the application of specific coursework to a program of study, please contact your academic advisor. Major maps are only a suggested or recommended sequence of courses to ensure a clear path to graduation.

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation. Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Requirements:
- A minimum GPA of 3.5 in the major and 3.3 institutional.
- A written sponsorship agreement from the faculty mentor on file in the department.
- Public presentation of the Senior Thesis research accompanied by a written document approved by the faculty mentor and a second reader that follows the guidelines of the School of the Earth, Ocean and Environment.
- 3 courses (9 hours) in addition to the general major requirements, including:
  - GEOL 498 or GEOL 499
  - GEOL 699
  - A minimum of one GEOL 500-level course appropriate to the research

Degree with Distinction in Geological Sciences

Available to students majoring in Geological Sciences who wish to participate in significant research activities in their major field under the supervision of a faculty mentor. Students who successfully fulfill all of these requirements will be awarded their degree with “Distinction in Geological Sciences” upon graduation. South Carolina Honors College students taking this route would graduate with both Honors in SCHC and “Distinction in Geological Sciences”.

Requirements:
- A minimum GPA of 3.5 in the major and 3.3 institutional.
- A written sponsorship agreement from the faculty mentor on file in the department.
- Public presentation of the Senior Thesis research accompanied by a written document approved by the faculty mentor and a second reader that follows the guidelines of the School of the Earth, Ocean and Environment.
- 3 courses (9 hours) in addition to the general major requirements, including:
  - GEOL 498 or GEOL 499
  - GEOL 699
  - A minimum of one GEOL 500-level course appropriate to the research

Geophysics Minor

Designed for students interested in obtaining an in-depth background in the geophysical techniques and how they apply to the study of the Earth. It targets students interested in expanding their quantitative skills to the understanding of the environment, land and ocean resources, natural hazards, and mountain building.

Minor Requirements

Core Courses
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 101</td>
<td>Introduction to the Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 103</td>
<td>Environment of the Earth</td>
<td></td>
</tr>
<tr>
<td>GEOL 201</td>
<td>Observing the Earth</td>
<td></td>
</tr>
<tr>
<td>PHYS 201</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 201L</td>
<td>and General Physics Laboratory I</td>
<td></td>
</tr>
<tr>
<td>or PHYS 211</td>
<td>Essentials of Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; 211L</td>
<td>and Essentials of Physics I Lab</td>
<td></td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper-Level Geology Courses
Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 345</td>
<td>Igneous and Metamorphic Processes</td>
<td>9-12</td>
</tr>
<tr>
<td>GEOL 355</td>
<td>Structural Geology and Tectonics</td>
<td></td>
</tr>
<tr>
<td>GEOL 531</td>
<td>Plate Tectonics</td>
<td></td>
</tr>
<tr>
<td>GEOL 548</td>
<td>Environmental Geophysics</td>
<td></td>
</tr>
<tr>
<td>GEOL 554</td>
<td>Applied Seismology</td>
<td></td>
</tr>
<tr>
<td>GEOL 555</td>
<td>Elementary Seismology</td>
<td></td>
</tr>
<tr>
<td>GEOL 556</td>
<td>Seismic Reflection Interpretation</td>
<td></td>
</tr>
<tr>
<td>GEOL 575</td>
<td>Numerical Modeling for Earth Science Applications</td>
<td></td>
</tr>
<tr>
<td>GEOL 582</td>
<td>Marine Hydrodynamics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 25-28

Geophysics, B.S.

The Bachelor of Science degree in Geophysics concentrates on the branch of geology that deals with the physics of the earth, including oceanography, seismology, volcanology, and geomagnetism.

Learning Outcomes

- Students will demonstrate their knowledge of fundamental concepts and laboratory skills in the geosciences by responding to written and laboratory-practical exam questions in at least one of the following GEOL 302, GEOL 325, GEOL 345, GEOL 355, GEOL 531, GEOL 556, GEOL 554, GEOL 555, GEOL 575 and GEOL 582.
- Students will demonstrate knowledge of geological field skills by showing a competency at the proficiency level on a geologic field exercise. In the Geophysics courses GEOL 548 and GEOL 554, the field exercise will include a class field project using seismic data and solving a particular geologic problem, such as fault identifications or
the presence of sinkholes. For students enrolling in GEOL 500, the field exercise will be a mapping exercise, the Sheep Mountain project.

- Students will demonstrate their preparation for careers or graduate studies in the geosciences.

**Admissions**

**Entrance Requirements**

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

**Degree Requirements (128 hours)**

<table>
<thead>
<tr>
<th>Program of Study</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>Program Requirements</td>
<td>30-45</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>34</td>
</tr>
</tbody>
</table>

1. **Carolina Core Requirements (34-46 hours)**

   **CMW − Effective, Engaged, and Persuasive Communication: Written (6 hours)**
   
   *must be passed with a grade of C or higher*
   
   - any CC-CMW courses (p. 743)

   **ARP − Analytical Reasoning and Problem Solving (8 hours)**
   
   *must be passed with a grade of C or higher*
   
   - MATH 141
   - MATH 142

   **SCI − Scientific Literacy (8 hours)**
   
   - PHYS 211 & PHYS 211L
   - PHYS 212 & PHYS 212L

2. **College Requirements (15-18 hours)**

   **Foreign Language (0-3 hours)**
   
   *only if needed to meet 122-level proficiency*

   **GFL − Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**
   
   Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
   
   - CC-GFL courses (p. 743)

   It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

   **GHS − Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**
   
   - any CC-GHS course (p. 743)

   **GSS − Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**
   
   - any CC-GSS course (p. 743)

   **AIU − Aesthetic and Interpretive Understanding (3 hours)**
   
   - any CC-AIU course (p. 743)

   **CMS − Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)**
   
   - any overlay or stand-alone CC-CMS course (p. 743)

   **INF − Information Literacy (0-3 hours)**
   
   - any overlay or stand-alone CC-INF course (p. 743)

   **VSR − Values, Ethics, and Social Responsibility (0-3 hours)**
   
   - any overlay or stand-alone CC-VSR course (p. 743)

   **1 Carolina Core Stand Alone or Overlay Eligible Requirements**

   Requirements − Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

   2. **Course Title Credits**
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 515</td>
<td>Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>CSCE 206</td>
<td>Scientific Applications Programming</td>
<td>3</td>
</tr>
</tbody>
</table>
History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or

- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Three hours of Fine Arts or Humanities

3. Program Requirements (30-45 hours)
Supporting Courses (12 hours)
Select one of the following:

Course | Title | Credits
--- | --- | ---
GEO 101 | Introduction to the Earth | 4
GEO 103 | Environment of the Earth | 4
GEO 201 | Observing the Earth | 4

CHEM 111 & 111L | General Chemistry I and General Chemistry I Lab | 4
CHEM 112 & 112L | General Chemistry II and General Chemistry II Lab | 4

Total Credit Hours | 12

Cognate (13-14 hours)

must be passed with a grade of C or higher

Course | Title | Credits
--- | --- | ---
MATH 241 | Vector Calculus | 3
MATH 242 | Elementary Differential Equations | 3
MATH 344 & 344L | Applied Linear Algebra and Applied Linear Algebra Lab | 4

Select one of the following:

MATH 520 | Ordinary Differential Equations | 3-4
MATH 521 | Boundary Value Problems and Partial Differential Equations | 3
MATH 522 | Wavelets | 3
MATH 524 | Nonlinear Optimization | 3
MATH 525 | Mathematical Game Theory | 3
MATH 526 | Numerical Linear Algebra | 3

Total Credit Hours | 4-20

Electives (4-20 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Note: No electives will be needed to reach hours to graduate if completing the Degree with Distinction.

4. Major Requirements (34 hours)
a minimum grade of C is required in all major courses

Major Courses (34 hours)
Course | Title | Credits
--- | --- | ---
GEO 302 | Rocks and Minerals | 4

Select one of the following:

- GEO 315 | Surface and Near Surface Processes | 4
- GEO 325 | Stratigraphy and Sedimentary Basins | 3
- GEO 345 | Igneous and Metamorphic Processes | 3
- GEO 355 | Structural Geology and Tectonics | 4
- GEO 531 | Plate Tectonics | 3
- GEO 548 | Environmental Geophysics | 4
- GEO 554 | Applied Seismology | 3
- GEO 555 | Elementary Seismology | 3
- GEO 556 | Seismic Reflection Interpretation | 3
- GEO 575 | Numerical Modeling for Earth Science Applications | 3
- GEO 546 | Marine Geophysics | 3
- GEO 582 | Marine Hydrodynamics | 3

Total Credit Hours | 34

1 An approved field course may substitute as the Capstone Experience.

Degree with Distinction in Geophysics
Available to students majoring in Geophysics who wish to participate in significant research activities in their major field under the supervision of a faculty mentor. Students who successfully fulfill all of these requirements will be awarded their degree with “Distinction in Geophysics” upon graduation. South Carolina Honors College students taking this route would graduate with both Honors in SCHC and “Distinction in Geophysics”.

Requirements:
- A minimum GPA of 3.5 in the major and 3.3 overall.
- A written sponsorship agreement from the faculty mentor on file in the department.
- Public presentation of the Senior Thesis research accompanied by a written document approved by the faculty mentor and a second reader that follows the guidelines of the School of the Earth, Ocean and Environment.
- 2 courses (6 hours) in addition to the general major requirements, including:
• GEOL 498 or GEOL 499
• GEOL 699

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Geophysics, B.S.

Marine Science Minor

Minor Requirements (18 Hours)

Prerequisite Courses (8 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 101</td>
<td>The Ocean Environment</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 102</td>
<td>The Living Ocean</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credit Hours: 8

Required Courses (12 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 311</td>
<td>Biology of Marine Organisms</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 313</td>
<td>The Chemistry of the Sea</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 314</td>
<td>Physical Oceanography</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credit Hours: 12

Additional Courses (6 Hours)

• An additional 6 credit hours of Marine Science Major Courses must also be completed for a total of 18 credit hours numbered 301 and above. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better.

Marine Science, B.S.

Learning Outcomes

• Students will demonstrate that they understand the scientific process by testing hypotheses related to Marine Science in an inquiry based, hands on setting.
• Students will demonstrate critical thinking skills using the scientific method.
• Students will demonstrate the ability to conduct independent research.
• Students will demonstrate effective oral communication of Marine Science topics by giving an oral presentation.
• Students will communicate and summarize their research findings effectively in writing (such as on a poster or in an abstract) on Marine Science topics.

Progression Requirement
Marine Science majors may enroll in the following courses a maximum of twice to earn the required grade of C or higher: MATH through MATH 142, CHEM 111, CHEM 111L, CHEM 112, CHEM 112L, PHYS 201/PHYS 201L or PHYS 211/PHYS 211L, PHYS 202/PHYS 202L or PHYS 212/PHYS 212L. For the purposes of this standard of progression, withdrawal with a W does not constitute enrollment. These courses must be completed before the beginning of the student’s third academic year (fifth major semester) as a marine science major.

Transfer Requirement
Any student applying for transfer to the marine science major from other programs within the University, or from other accredited colleges and universities, is required to have a minimum overall grade point average of 2.50 on a 4.00 scale.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (128 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>28-43</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>36</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher
• any CC-CMW courses (p. 743)

**ARP – Analytical Reasoning and Problem Solving (8 hours)**
*must be passed with a grade of C or higher*

- MATH 141
- MATH 142

**SCI – Scientific Literacy (8 hours)**
*must be passed with a grade of C or higher*

- MSCI 101
- MSCI 102

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

*It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.*

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**
- any CC-GHS course (p. 743)

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**
- any CC-GSS course (p. 743)

**AIU – Aesthetic and Interpretive Understanding (3 hours)**
- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component**¹ (0-3 hours)
- any overlay or stand-alone CC-CMS (p. 743) course

**INF – Information Literacy**¹ (0-3 hours)
- any overlay or stand-alone CC-INF (p. 743) course

**VSR – Values, Ethics, and Social Responsibility**¹ (0-3 hours)
- any overlay or stand-alone CC-VSR (p. 743) course

¹ Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

**2. College Requirements (15-18 hours)**

**Foreign Language (0-3 hours)**
- only if needed to meet 122-level proficiency

**Analytical Reasoning (6 hours)**
*must be passed with a grade of C or higher*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 515</td>
<td>Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>a higher level CSCE course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**History (3 hours)**
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  - or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

**Social Science and Fine Arts or Humanities (6 hours)**
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Three hours of Fine Arts or Humanities

**3. Program Requirements (28-43 hours)**

**Supporting Courses (16 hours)**
*must be passed with a grade of C or higher*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 201 &amp; 201L</td>
<td>General Physics I and General Physics Laboratory I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 211 &amp; 211L</td>
<td>Essentials of Physics I and Essentials of Physics I Lab</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.
Major Courses (13 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 311</td>
<td>Biology of Marine Organisms</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 313</td>
<td>The Chemistry of the Sea</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 314</td>
<td>Physical Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 505</td>
<td>Senior Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Required Field Experience</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours</td>
<td>13</td>
</tr>
</tbody>
</table>

Minor (18 hours) optional

A student in the Marine Science major may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (12-27 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (36 hours)

a minimum grade of C is required in all major courses

<table>
<thead>
<tr>
<th>Major Courses (13 hours)</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 311</td>
<td>Biology of Marine Organisms</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MSCI 313</td>
<td>The Chemistry of the Sea</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MSCI 314</td>
<td>Physical Oceanography</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MSCI 505</td>
<td>Senior Seminar</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Required Field Experience</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>

1 Students in the Physical Oceanography concentration must take PHYS 211 & PHYS 211L.
2 Students in the Physical Oceanography concentration must take PHYS 212 & PHYS 212L.

Major Electives (23 hours)

Students, in consultation with a faculty advisor, must select 23 hours of major electives. Preferred courses available for major credit are listed below; however, any course which is eligible for cognate credit in the College of Arts and Sciences can potentially be a major course with consent of faculty advisor. Hours used to fulfill an optional concentration count toward the fulfillment of the 23 hours of major electives, e.g., students selecting Biological Oceanography would fulfill 13 hours of the 23 hours of required major electives.

Courses Acceptable for Major Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI courses numbered 300 and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCI 399</td>
<td>Independent Study</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 495</td>
<td>Internship in Marine Science</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 496</td>
<td>Undergraduate Research</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 497</td>
<td>Undergraduate Research</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 498</td>
<td>Undergraduate Research</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 499</td>
<td>Undergraduate Research</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 505</td>
<td>Senior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Ecology and Evolution</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 301L</td>
<td>and Ecology and Evolution Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Cell and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 302L</td>
<td>and Cell and Molecular Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 303</td>
<td>Fundamental Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 450</td>
<td>Principles of Biological Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 460</td>
<td>Advanced Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 460L</td>
<td>and Advanced Human Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 497</td>
<td>Undergraduate Seminar in Biological Sciences</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 505</td>
<td>Developmental Biology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 505L</td>
<td>and Developmental Biology Lab I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 534</td>
<td>Animal Behavior</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 534L</td>
<td>and Animal Behavior Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 541</td>
<td>Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 541L</td>
<td>and Biochemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 543</td>
<td>Comparative Physiology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 543L</td>
<td>and Comparative Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 549</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 550</td>
<td>Bacteriology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 550L</td>
<td>and Bacteriology Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

1 All MSCI majors are required to undertake a minimum of three weeks of marine science field effort. Possibilities include MSCI 460, semester or summer internship, REU, semester at sea, or faculty-sponsored field research or cruise. Students who do not select MSCI 460, must submit a petition for an alternative field experience to the Undergraduate Director. If the alternative is approved, the student must submit a short (2-3 page minimum) report at the completion of the experience to the Undergraduate Director for approval. Upon approval, the Undergraduate Director will notify the Dean’s office of the substitution. Students will not normally receive course credit hours for their alternative field experience, but may combine this requirement with independent study credit as appropriate. If no course credit hours are associated with the field experience, the student will be required to take an additional Marine Science elective (300-level and above). Some students may complete MSCI 460 in the summer following senior year & graduate in August.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 570 &amp; 570L</td>
<td>Principles of Ecology and Principles of Ecology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 599</td>
<td>Topics in Biology ¹</td>
<td>1-3</td>
</tr>
<tr>
<td>BIOL 640</td>
<td>Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 652</td>
<td>Evolutionary Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 654</td>
<td>Speciation</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 670</td>
<td>Plant Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 690</td>
<td>Ultramicroscopy</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321 &amp; 321L</td>
<td>Quantitative Analysis and Quantitative Analysis Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 331L</td>
<td>Essentials of Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Essentials of Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333L</td>
<td>Organic Chemistry I and Comprehensive Organic Chemistry Laboratory I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 334L &amp; 334L</td>
<td>Organic Chemistry II and Comprehensive Organic Chemistry Laboratory II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541 &amp; 541L</td>
<td>Physical Chemistry and Physical Chemistry Laboratory ¹</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 542 &amp; 542L</td>
<td>Physical Chemistry and Physical Chemistry Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 621</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 561</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 548</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 548</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 571</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 572</td>
<td>Freshwater Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 590</td>
<td>Environmental Issues Seminar ¹</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 341</td>
<td>Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 345</td>
<td>Interpretation of Aerial Photographs</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 363</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 365</td>
<td>Hurricanes and Tropical Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 510</td>
<td>Special Topics in Geographic Research</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 516</td>
<td>Coastal Zone Management</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 541</td>
<td>Advanced Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 545</td>
<td>Synoptic Meteorology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 546</td>
<td>Applied Climatology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 551</td>
<td>Principles of Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 554</td>
<td>Spatial Programming</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 556</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>GIS-Based Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 575</td>
<td>Digital Techniques and Applications in Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 305</td>
<td>Earth Systems through Time</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 315</td>
<td>Surface and Near Surface Processes</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 325</td>
<td>Stratigraphy and Sedimentary Basins</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 335</td>
<td>Processes of Global Environmental Change</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 345</td>
<td>Igneous and Metamorphic Processes</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 371</td>
<td>A View of the River</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 500</td>
<td>Field Geology</td>
<td>4-6</td>
</tr>
<tr>
<td>GEOL 503</td>
<td>Regional Stratigraphy and Biostratigraphy of North America</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 508</td>
<td>Palynology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 516</td>
<td>Sedimentology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 541</td>
<td>Earth Science for Teachers II</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 545</td>
<td>Geological Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 546</td>
<td>Marine Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 555</td>
<td>Elementary Seismology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 570</td>
<td>Environmental Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 507</td>
<td>Communicating Science, Health and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344</td>
<td>Applied Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344L</td>
<td>Applied Linear Algebra Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 521</td>
<td>Boundary Value Problems and Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 526</td>
<td>Numerical Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 527</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 544</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>NAVY 301 &amp; 301L</td>
<td>Navigation/Naval Operations Lab I</td>
<td>4</td>
</tr>
<tr>
<td>NAVY 302 &amp; 302L</td>
<td>Navigation/Naval Operations Lab II</td>
<td>4</td>
</tr>
<tr>
<td>POLI 370</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POLI 399A</td>
<td>Independent Study in Political Science</td>
<td>1-6</td>
</tr>
<tr>
<td>POLI 399B</td>
<td>Independent Study in International Studies</td>
<td>1-6</td>
</tr>
<tr>
<td>POLI 420</td>
<td>International Law</td>
<td>3</td>
</tr>
<tr>
<td>POLI 431</td>
<td>Science, Technology, and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLI 477</td>
<td>Green Politics</td>
<td>3</td>
</tr>
<tr>
<td>SCHC 390-SCHC 398 ¹</td>
<td>Senior Thesis/Project ¹</td>
<td>1-15</td>
</tr>
<tr>
<td>SCHC 499</td>
<td>HNRS: Senior Thesis/Project ¹</td>
<td>1-15</td>
</tr>
<tr>
<td>SOCY 310</td>
<td>Social Demography</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 315</td>
<td>Global Population Issues</td>
<td>3</td>
</tr>
<tr>
<td>STAT 506</td>
<td>Introduction to Experimental Design</td>
<td>3</td>
</tr>
<tr>
<td>STAT 511</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>STAT 512</td>
<td>Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 513</td>
<td>Theory of Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>STAT 516</td>
<td>Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 518</td>
<td>Nonparametric Statistical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ A maximum of 10 hours of independent study, seminar, and undergraduate research courses may count in the 23 hours of major electives required for the Marine Science major.

Note: Credit for a degree will not be given for both CHEM 340 and CHEM 541.

**Concentrations (12-15 hours)**

Students may elect to have a Concentration specified directly on their academic transcript upon graduation from the Marine Science Program. In order to earn a Concentration certification, students must take the following courses, with an additional course(s) to be decided upon by the student and his or her Faculty Advisor. These courses may also be included in the 36 major credit hours required for graduation.
### Biological Oceanography (13 hours minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 301 &amp; 301L</td>
<td>Ecology and Evolution and Ecology and Evolution Laboratory (Lab not required)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 302 or BIOL 302L or BIOL 303</td>
<td>Cell and Molecular Biology (Lab not required)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Cell and Molecular Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fundamental Genetics</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Select two additional courses (six hours minimum)</strong> from the following list of marine biology, ecology, biology courses or similar courses as approved by advisor:</td>
<td>6</td>
</tr>
<tr>
<td>MSCI/BIOL 450</td>
<td>Principles of Biological Oceanography</td>
<td></td>
</tr>
<tr>
<td>MSCI 503/ BIOL 502</td>
<td>Environmental Microbiology</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 510</td>
<td>Invertebrate Zoology</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 525</td>
<td>Marine Plants</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 535</td>
<td>Fishery Management</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 536</td>
<td>Ichthyology</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 537</td>
<td>Aquaculture</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 538</td>
<td>Behavior of Marine Organisms</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 552</td>
<td>Population Genetics</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 574</td>
<td>Marine Conservation Biology</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 575</td>
<td>Marine Ecology</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 576</td>
<td>Marine Fisheries Ecology</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 577</td>
<td>Ecology of Coral Reefs</td>
<td></td>
</tr>
<tr>
<td>MSCI/BIOL 627</td>
<td>Marine Phytoplankton</td>
<td></td>
</tr>
<tr>
<td>MSCI 496</td>
<td>Undergraduate Research (if biology oriented)</td>
<td></td>
</tr>
<tr>
<td>MSCI 497</td>
<td>Undergraduate Research (if biology oriented)</td>
<td></td>
</tr>
<tr>
<td>MSCI 498</td>
<td>Undergraduate Research (if biology oriented)</td>
<td></td>
</tr>
<tr>
<td>MSCI 499</td>
<td>Undergraduate Research (if biology oriented)</td>
<td></td>
</tr>
<tr>
<td>MSCI 599</td>
<td>Topics in Marine Science (if biology oriented)</td>
<td></td>
</tr>
<tr>
<td>MSCI 566</td>
<td>Ecosystem Analysis</td>
<td></td>
</tr>
<tr>
<td>MSCI 578</td>
<td>Physiological and Pollution Ecology of Marine Organisms</td>
<td></td>
</tr>
<tr>
<td>BIOL 302 or BIOL 303</td>
<td>Cell and Molecular Biology ²</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 460 or BIOL 460L</td>
<td>Advanced Human Physiology (Lab not required)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 505 or BIOL 505L</td>
<td>Developmental Biology (Lab not required)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 534 or BIOL 534L</td>
<td>Animal Behavior (Lab not required)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours: 13**

¹ CHEM 333 is a prerequisite for BIOL 302 and is recommended for those intending to complete postgraduate work in this area of emphasis.

² BIOL 302L is optional.

### Chemical Oceanography (13 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Quantitative Analysis Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I (Lab not required)</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 333L</td>
<td>Comprehensive Organic Chemistry Laboratory I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II (Lab not required)</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 334L</td>
<td>Comprehensive Organic Chemistry Laboratory II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One more Chemical Oceanography course at the 400-level or above</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours: 13**

### Coastal Resource Management & Marine Policy (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 390</td>
<td>Policy and Marine Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 516</td>
<td>Coastal Zone Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 548</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One more Coastal Resource Management &amp; Marine Policy course at the 400-level or above</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours: 12**

¹ ENVR 548 requires a prerequisite of ECON 221 and ECON 222 or ECON 224.

### Geological Oceanography (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 302</td>
<td>Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 305</td>
<td>Earth Systems through Time</td>
<td>4</td>
</tr>
<tr>
<td>or GEOL 335</td>
<td>Processes of Global Environmental Change</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 315</td>
<td>Surface and Near Surface Processes</td>
<td>4</td>
</tr>
<tr>
<td>or GEOL 325</td>
<td>Stratigraphy and Sedimentary Basins</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>One more Geological Oceanography course at the 300-level or above</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours: 15**
Physical Oceanography (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>MSCI 557</td>
<td>Coastal Processes</td>
<td></td>
</tr>
<tr>
<td>MSCI 579</td>
<td>Air-Sea Interaction</td>
<td></td>
</tr>
<tr>
<td>MSCI 581</td>
<td>Estuarine Oceanography</td>
<td></td>
</tr>
<tr>
<td>MSCI 582</td>
<td>Marine Hydrodynamics</td>
<td></td>
</tr>
<tr>
<td>MSCI 590</td>
<td>Beach-Dune Interactions</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

1 Courses are taught alternate years. Please check teaching schedule.
2 Students in the Physical Oceanography concentration must take PHYS 211 & PHYS 211L and PHYS 212 & PHYS 212L.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Marine Science, B.S. No Concentration

Marine Science, B.S. Biological Oceanography Concentration

Marine Science, B.S. Chemical Oceanography Concentration

Marine Science, B.S. Coastal Resource Mgmt. & Marine Policy Concentration

Marine Science, B.S. Geological Oceanography Concentration

Marine Science, B.S. Physical Oceanography Concentration

School of Visual Art and Design
Website Department (http://www.cas.sc.edu/art/)

Laura Kissel, Director

Degree Programs

The Bachelor of Arts degree is available with majors in art history, art studio, and media arts. A Bachelor of Fine Arts degree is offered in art studio and art education. The art education BFA is designed for students who seek certification to teach art in K-12 settings. The Bachelor of Fine Arts in art studio offers concentrations in: ceramics, drawing, graphic design, painting, photography, printmaking, and 3D/sculpture.

The School of Visual Art and Design offers four major areas of study and several degrees in the fields of ART EDUCATION, ART HISTORY, ART STUDIO, and MEDIA ARTS.

Students pursuing a degree in ART EDUCATION receive broad exposure to studio art, art history, education, critical perspectives and aesthetics, and can earn certification to teach art in K-12 schools.

The ART HISTORY program offers courses in art and architecture across cultures and from antiquity to the present. Students develop skills in research, analysis, criticism, and theory.

ART STUDIO encompasses seven areas of studio specialization within the BFA degree: ceramics, drawing, graphic design, painting, photography, printmaking, and 3D/sculpture.

Students pursuing a degree in MEDIA ARTS study media practices and global media cultures in courses where they analyze and produce media such as films, video games, manga, animations, internet art, mobile applications, screenplays, and more.

Interested in film production? (https://sc.edu/study/majors_and_degrees/media_arts.php)

Interested in film studies? (https://sc.edu/study/majors_and_degrees/media_arts.php)

Honors Sections
The School of Visual Art and Design participates in the University’s Honors College. Each year, one or more sections of art, media, or art history courses are generally offered for honors students.

Scholarships
A limited number of competitive scholarships are available for School of Visual Art and Design majors, including incoming freshmen. Contact the department office or visit the School of Visual Art and Design website for further information.

Class Attendance
Students are obligated to complete all assigned work promptly, to attend class regularly, and to participate in whatever class discussion may occur. The instructor’s attendance policy should be ascertained by the student at the beginning of the semester. Faculty members should notify classes specifically of the attendance policy which they intend to follow in each class.

Programs

- Art Education, B.F.A. (p. 258)
- Art History Minor (p. 261)
- Art History, B.A. (p. 261)
- Art Studio Minor (p. 263)
- Art Studio, B.A. (p. 263)
- Art Studio, B.F.A. (p. 266)
- Media Arts Minor (p. 271)
- Media Arts, B.A. (p. 271)

Courses

ARTE 101 - Introduction to Art (3 Credits)
Introduction to art appreciation. Elements and principles of the visual arts, with examples from the history of art.

Carolina Core: AIU

ARTE 201 - Special Topics in Art Education (3 Credits)
Topics selected by the instructor for specialized study. Course content may include a variety of new, contemporary, and emerging art-related issues that are not regularly included in the general art education curriculum. May be repeated.
ARTE 560 - Interdisciplinary Relationships in the Arts (3 Credits)
The study of relationships among visual arts, music, theatre, and dance.
Carolina Core: AIU

ARTE 345 - Art Evaluation (3 Credits)
The language of art is taught through viewing, interpreting, producing, and appreciating art. Historical and contemporary art criticism; methods of teaching art criticism to children and young adults.

ARTE 399 - Independent Study (3-9 Credits)
Graduation with Leadership Distinction: GLD: Research

ARTE 520 - Art for Elementary Schools (3 Credits)
Methods of teaching art to elementary and preschool children. Major emphasis will be given to relevant studio experiences.

ARTE 525 - Elementary Methods for K-12 Art Certification (3 Credits)
Curriculum, methods, and materials for teaching art to elementary and preschool children.

ARTE 525P - Elementary Methods for K-12 Art Certification Practicum (1 Credit)
Experiential practice and learning in elementary schools.
Corequisite: ARTE 525.

ARTE 530 - Art of Children (3 Credits)
A study of prominent theories of the artistic development of children from infancy through adolescence. Students will examine children's art from various age groups and apply theoretical explanations to these observations.

ARTE 540 - The School Art Program (3 Credits)
An introduction to art education as a profession. The history, curricular development, and current issues are examined. Students practice proven teaching techniques.
Prerequisites: ARTE 520.

ARTE 540P - Practicum in Art Education (1 Credit)
A sequence of supervised practicum experiences in middle and secondary school art education settings. Seminars and group discussions.
Corequisite: ARTE 540.

ARTE 550 - Incorporating New Media in Art Education (3 Credits)
Applications new media such as digital photography, sound, and other interactive hypermedia for the art classroom. Emphasis on integrating art production with art history, criticism, and aesthetics.

ARTE 560 - Secondary Methods for K-12 Art Certification (3 Credits)
Curriculum, methods, and materials for teaching art to secondary school students.
Corequisite: ARTE 560P.

ARTE 560P - Secondary Methods for K-12 Art Certification Practicum (1 Credit)
Experiential curriculum, methods, and materials for teaching secondary schoolchildren.
Corequisite: ARTE 560.

ARTE 565 - Field Experience Seminar (3 Credits)
Corequisite: EDSE 471.

ARTE 571 - Directed Teaching in Art (12 Credits)
Students seeking K-12 certification in art participate in directed teaching in elementary and secondary art programs while being supervised by an art education faculty member. Students are evaluated using a state-mandated assessment tool. Completion of course work in art education, admission to professional program, College of Education, and FBI check are required.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ARTE 595 - Art Education Workshop (1-6 Credits)
A workshop especially for teachers and prospective teachers, featuring practical art experiences and projects for elementary and secondary school. Topic varies by title.

ARTH 105 - History of Western Art (3 Credits)
The visual arts from Paleolithic times to the Renaissance.
Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 106 - History of Western Art (3 Credits)
The visual arts from the Renaissance to the present.
Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 107 - History of Asian Art (3 Credits)
Art and culture of India, China, and Japan from prehistory to the present.
Carolina Core: GHS

ARTH 313 - History of Roman Art (3 Credits)
An examination of the development of architecture, painting, and sculpture until the end of the Roman Empire.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 315 - History of Medieval Art (3 Credits)
A survey of architecture, painting, and sculpture in Europe during the Middle Ages.

ARTH 320 - History of Italian Renaissance Art (3 Credits)
The origins and development of Renaissance painting, sculpture, and architecture in Italy during the 15th and 16th centuries.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 321 - History of Northern Renaissance Art (3 Credits)
The arts of Northern Europe during the 15th and 16th centuries with particular emphasis on the developments in the Low Countries, Germany, and France.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 325 - History of Southern Baroque Art (3 Credits)
The art and architecture of Italy and Spain in the 17th century.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 326 - History of Northern Baroque Art (3 Credits)
The art and architecture of Holland, Flanders, France, England, Germany, and Austria in the 17th century.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 327 - History of 18th-Century European Art (3 Credits)
A survey of eighteenth-century European painting and sculpture, following the lives and works of major artists, changes in style and taste against the backdrop of a broader cultural and historical context.

ARTH 330 - History of 19th-Century European Art (3 Credits)
A survey of nineteenth-century European painting and sculpture, following the lives and works of major artists, changes in style and taste against the backdrop of a broader cultural and historical context.
ARTH 519 - Topics in Ancient Art (3 Credits)
Topic varies by title.

ARTH 514 - Topics in Medieval Art (3 Credits)
Topic varies by title.

ARTH 504 - Topics in Modern Art (3 Credits)
Topic varies by title.

ARTH 503 - Internship in Art History (1-6 Credits)
Supervised experience in the field of art history, including museums, galleries, art dealers and auction houses. Requires a university internship contract and is subject to approval by advisor. May be repeated. 

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ARTH 511 - Etruscan Art and Archaeology (3 Credits)
Seminar in the art and civilization of the pre-Roman Etruscan peoples of Italy. Slide lectures, discussion sessions, and some examination of archaeological field methods and pottery classification.

ARTH 512 - Topics in Modern Architecture (3 Credits)
Topic varies by title.

ARTH 499 - Independent Study (3 Credits)
Graduation with Leadership Distinction: GLD: Research

Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 498 - Independent Study (3 Credits)
Graduation with Leadership Distinction: GLD: Research

Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 497 - Independent Study (3 Credits)
Graduation with Leadership Distinction: GLD: Research

Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 501 - Methodologies of Art History (3 Credits)
A seminar for art history majors and graduate students in the history and various methodologies of the discipline.

ARTH 500 - History of Renaissance Painting (3 Credits)
An analysis of the paintings and painters of importance during the period of the Renaissance in Europe.

ARTH 521 - History of Renaissance Sculpture (3 Credits)
A survey of the major developments in the art of sculpture associated with the European Renaissance.

ARTH 522 - History of Renaissance Architecture (3 Credits)
European architecture and architectural theory during the 15th and 16th centuries.

ARTH 523 - Florentine Art (3 Credits)
The artistic development of Florence from the age of Giotto to that of Michelangelo as seen in the context of social and cultural developments.

ARTH 524 - Topics in Renaissance Art (3 Credits)
Topic varies by title.

ARTH 525 - History of Baroque Painting (3 Credits)
17th-century European painting. 
Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 526 - History of Baroque Sculpture (3 Credits)
17th and 18th-century European sculpture. 
Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 527 - History of Baroque Architecture (3 Credits)
The architecture of Europe in the 17th century with special attention to the major architects of Italy, France, Germany, and England. Topics to be included are: the church, the palace, the garden, and city planning. 
Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 528 - Topics in 18th-Century Art (3 Credits)
Topic varies by title. 
Prerequisites: ARTH 106 or ARTH 327.

ARTH 529 - Topics in 19th-Century Art (3 Credits)
Topic varies by title. 
Prerequisites: ARTH 106 or ARTH 330.

ARTH 530 - History of Modern Painting (3 Credits)
A detailed examination of 20th century painting.

ARTH 536 - History of Modern Sculpture (3 Credits)
The development of sculpture in the 19th and 20th centuries with special attention to contemporary tendencies. 

ARTH 537 - Topics in Modern Architecture (3 Credits)
Topic varies by title. 
Prerequisites: ARTH 106 or ARTH 337.

ARTH 538 - Topics in Modern Art (3 Credits)
Topic varies by title.

ARTH 540 - History of American Painting (3 Credits)
Important aspects of American painting with emphasis on the 19th and 20th centuries. 

ARTH 542 - History of American Architecture (3 Credits)
A consideration of the evolution of architecture in America including aspects of town and city planning. 

ARTH 543 - The History of American Antiques and Decorative Arts (3 Credits)
A survey of our material culture concentrating upon the evolution of styles. 

ARTH 544 - Topics in American Art (3 Credits)
Topic varies by title.
ARTH 545 - Special Topics in Modern Chinese Art (3 Credits)
Topics in modern Chinese art selected for specialized study. May be repeated as content varies by title.

ARTH 546 - Special Topics in Asian Art (3 Credits)
Topics in Asian art selected for specialized study. May be repeated as content varies by title.

ARTH 549 - Topics in Non-Western Art (3 Credits)
Topic varies by title.

ARTH 550 - Trends in Art History (3 Credits)
A critical examination of the development of the discipline of art history and an analysis of its major trends and theoretical positions.

ARTH 551 - Special Topics in Film and Media Studies (3 Credits)
Intensive study of a specific topic in film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: FAMS 511, MART 591

ARTH 557 - History of Printmaking (3 Credits)
Technical, aesthetical, and historical study of the development of printmaking.

ARTH 560 - Museology I (3 Credits)
The history and theory of museums and an introduction to museum practices in the setting of a multi-disciplinary institution. Practical experience provided through the various units of the University Museums.

ARTH 561 - Museology II (3 Credits)
Museum practices emphasizing the conservation, installation, and interpretation of the object in the context of an art museum. Practical experience provided through the Columbia Museum of Art.

ARTH 562 - Art Conservation (3 Credits)
History, theory, practices, ethics, and procedures of modern art conservation. Practical experience provided through the South Carolina Institute of Archaeology and Anthropology.

ARTH 569 - Special Topics in Film and Media Histories (3 Credits)
Intensive study of a specific topic in film and media history. May be repeated as content varies by title.
Prerequisites: FAMS 300.

ARTH 590 - Topics in Art History (3 Credits)
Topic varies by title.
Prerequisites: ARTH 105 or ARTH 106 or any ARTH 300.

ARTH 599 - Independent Study (1-6 Credits)
Independent study for advanced undergraduate majors and graduate students in art history. Approved independent study contract required for enrollment. May be repeated, but no more than 12 credits of Independent Study may be applied to the degree.

ARTS 102 - Introduction to Visual Arts Computing (3 Credits)
A foundations level course in the use of personal computers and discipline-related software as aids in visual design.

ARTS 103 - Fundamentals of Art (3 Credits)
Introduction to visual thinking and principles of two-dimensional design.
Carolina Core: AIU

ARTS 104 - 3-Dimensional Design I (3 Credits)
Introduction to visual thinking and principles of three-dimensional design.
Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Research

ARTS 107 - Color and Composition (3 Credits)
Color, color theory, and compositional systems.
Prerequisites: ARTS 103.

ARTS 111 - Basic Drawing I (3 Credits)
Introduction to the materials and basic techniques of drawing.

ARTS 210 - Introduction to Painting (4 Credits)
An introductory course in the materials and techniques of painting.
Carolina Core: AIU

ARTS 211 - Beginning Painting II (4 Credits)
Exploration of materials and techniques of painting with emphasis on individual creative expression.

ARTS 215 - Introduction to Printmaking (4 Credits)
An introductory course in printmaking with emphasis on monotype, relief, and intaglio processes.

ARTS 220 - Beginning Ceramics (4 Credits)
An introduction to the materials and techniques of ceramics through hand-building and throwing on the wheel.

ARTS 225 - Introduction to Three-Dimensional Studies (4 Credits)
An introductory course in the concepts, materials, and techniques of three-dimensional media.
Prerequisites: C or better in ARTS 104.

ARTS 230 - Introduction to Drawing (4 Credits)
Building on foundational skills acquired in ARTS 111, this course further develops skills in observation, composition, spatial awareness, drawing technique and critical language.
Prerequisites: C or better in ARTS 111.

ARTS 232 - Figure Structure I (4 Credits)
The structural nature of figure, with emphasis on the translation of form in space onto a two-dimensional surface.
Prerequisites: C or better in ARTS 230.

ARTS 233 - Figure Structure II (4 Credits)
Drawing from the human figure.
Prerequisites: C or better in ARTS 230.

ARTS 235 - Introduction to Fiber Arts (4 Credits)
An introductory course in the materials and processes of fiber arts.

ARTS 241 - Color for Design (4 Credits)
Color theory, systems, and applications in visual communications.
Graduation with Leadership Distinction: GLD: Research

ARTS 245 - Graphic Design I (4 Credits)
The basics of visual communication, including formal issues, fundamental communication principles, image development, and relevant digital applications.
Prerequisites: C or better in ARTS 102.

ARTS 246 - Graphic Design II (4 Credits)
Typography, word/image relationships, relevant digital applications.
Prerequisites: C or better in ARTS 102.

ARTS 255 - Introduction to Jewelry Making (4 Credits)
Introduction to concepts and design of jewelry objects in a variety of metals and other materials.

ARTS 260 - Photography for Non-Majors (3 Credits)
Photographic history, theory, and practice with emphasis on developing a personal vision through the use of digital still cameras.
ARTS 261 - Introduction to Photography (4 Credits)
A thorough grounding in 35mm black and white photography using both digital and traditional output, as well as the aesthetics of the photograph as a personal artistic expression.

Prerequisites: C or better in ARTS 102 and ARTS 111.

ARTS 266 - Illustration II (4 Credits)
Illustration projects emphasizing principles of visual communication, development of resource material, composition and preparation of sketches, comprehensives, and finished illustrations in a variety of media.

Prerequisites: C or better in ARTS 102 and ARTS 111.

ARTS 301 - Intermediate Painting I (4 Credits)
An exploration of painting as a means of multi-sensory expression through visual experience.

ARTS 302 - Intermediate Painting II (4 Credits)
An exploration of the depiction of space and form in painting with a continued emphasis on materials and techniques combined with individual creative expression.

ARTS 305 - Intermediate Printmaking I: Relief (4 Credits)
Linoleum, woodblock printing, and other relief techniques including the execution of original works in these media.

ARTS 306 - Intermediate Printmaking II: Screen (4 Credits)
Screen printing techniques including the execution of original works in these media.

ARTS 310 - Intermediate Ceramics I (4 Credits)
Concentration on development of throwing skills. Experimentation with clay and glaze chemistry.

ARTS 311 - Intermediate Ceramics II (4 Credits)
Concentration on hand-building skills. Glaze experimentation and ceramic materials will be researched.

ARTS 320 - Intermediate Three-Dimensional Studies I (4 Credits)
Contemporary principles in various three-dimensional media.

Prerequisites: C or better in ARTS 225.

ARTS 321 - Intermediate Three-Dimensional Studies II (4 Credits)
Further study of various three-dimensional media.

Prerequisites: C or better in ARTS 225.

ARTS 330 - Intermediate Drawing I (4 Credits)
Enhancing graphic richness in drawings with intellectual and visual perception as content.

Prerequisites: C or better in ARTS 230.

ARTS 331 - Intermediate Drawing II (4 Credits)
Contemporary cultural stimuli as the content for drawing projects. Emphasis on intellectual and emotive approaches.

Prerequisites: C or better in ARTS 230.

ARTS 335 - Intermediate Fiber Arts I (4 Credits)
Exploration of fiber constructions such as weaving, spinning, and felting.

Prerequisites: C or better ARTS 235.

ARTS 336 - Intermediate Fiber Arts II (4 Credits)
Exploration of fiber surface design techniques such as batik, tie dye, and block printing.

Prerequisites: C or better in ARTS 335.

ARTS 345 - Visual and Verbal Interaction (4 Credits)
Intermediate level exploration of type and image in a variety of visual communication problems employing a variety of media. Graphic design majors only. Portfolio Review Acceptance.

Prerequisites: C or better in ARTS 246, and C or better in ARTS 260 or ARTS 261.

ARTS 346 - Series Development and Practice (4 Credits)
Development of complex visual communication projects that involve problem-seeking and problem-solving and result in works with multiple elements. Discussion of current visual communication issues. Graphic design majors only.

Prerequisites: C or better in ARTS 345.

ARTS 347 - Photographics (4 Credits)
Creative use of contemporary photographic equipment and techniques in solving graphic design problems.

Prerequisites: C or better in ARTS 261.

ARTS 355 - Intermediate Jewelrymaking I (4 Credits)
Jewelry fabrication using the centrifugal casting methods.

Prerequisites: C or better in ARTS 255.

ARTS 356 - Intermediate Jewelrymaking II (4 Credits)
Jewelry fabrication using the electroforming method.

Prerequisites: C or better in ARTS 355.

ARTS 360 - Advanced Black & White Photography (4 Credits)
Continuation of black and white photographic techniques introduced in ARTS 261. Introduction to advanced exposure and film development, exhibition quality printing and presentation, medium and large-format cameras, b&w digital output and darkroom experimentation.

Prerequisites: C or better in ARTS 261.

ARTS 361 - Digital Photography (4 Credits)
Exploration of digital imaging techniques including image adjustment and printing methods with an emphasis on color photography.

ARTS 390 - Special Topics in Art Studio (3 Credits)
Investigation and analysis of various thematic concepts, processes, and techniques in a variety of media. Content varies by course title.

ARTS 399 - Independent Study (3-9 Credits)
Graduation with Leadership Distinction: GLD: Research

ARTS 410 - Advanced Painting I (4 Credits)
Advanced development of individual direction in painting the human figure from a live model. Special emphasis on material selection and formal principles of painting as applied toward individual goals.

Prerequisites: C or better in ARTS 310 or ARTS 311.

ARTS 411 - Advanced Painting II (4-6 Credits)
Advanced development of individual direction in painting and skills in the representation of the human figure working observationally from the live model. Special emphasis on material selection and formal principles of painting as applied toward individual goals.

Prerequisites: C or better in ARTS 310 or ARTS 311.

ARTS 415 - Advanced Printmaking I: Intaglio (4 Credits)
Intaglio techniques, such as drypoint, etching and collagraph, including the execution of original works in these media.
ARTS 416 - Advanced Printmaking II: Lithography (4-6 Credits)
Lithography techniques, including the execution of original works in these media.

Prerequisites: C or better in ARTS 210, ARTS 211, ARTS 310, and ARTS 311.

ARTS 420 - Advanced Ceramics I (4 Credits)
Further development of throwing and hand-building skills. Introduction to kiln firing and continued glaze and clay experimentation.
Prerequisites: C or better in ARTS 320 or ARTS 321.

ARTS 421 - Advanced Ceramics II (4-6 Credits)
Prerequisites: C or better in ARTS 420.

ARTS 425 - Advanced Three-Dimensional Studies I (4 Credits)
The development of fabrication skills and creative expression in various three-dimensional media.
Prerequisites: C or better in ARTS 325 or ARTS 326.

ARTS 426 - Advanced Three-Dimensional Studies II (4-6 Credits)
Further development of fabrication skills and creative expression in various three-dimensional media.
Prerequisites: C or better in ARTS 325 or ARTS 326.

ARTS 430 - Advanced Drawing I (4 Credits)
Development of a thematic approach to drawing in a series of individual and group generated artworks.
Prerequisites: C or better in ARTS 330 or ARTS 331.

ARTS 431 - Advanced Drawing II (4-6 Credits)
Development of highly individualized content in a series of drawings.
Prerequisites: C or better in ARTS 430.

ARTS 435 - Advanced Fiber Arts I (4 Credits)
Advanced study of materials and techniques of fiber arts with emphasis on individual creative expression.
Prerequisites: C or better in ARTS 336.

ARTS 436 - Advanced Fiber Arts II (4 Credits)
Advanced study of materials and techniques of fiber arts with emphasis on individual creative expression.
Prerequisites: C or better in ARTS 435.

ARTS 445 - Time and Sequence (4 Credits)
Advanced visual communication projects involving time and sequencing with both visual and verbal elements using a variety of media.
Prerequisites: C or better in ARTS 346.

ARTS 446 - Structures (4 Credits)
Advanced exploration of visual structures, both 2D and 3D, in visual communication problems.
Prerequisites: C or better in ARTS 445.

ARTS 447 - Senior Project I (4 Credits)
Individual final project in graphic design.
Prerequisites: C or better in ARTS 445.

Graduation with Leadership Distinction: GLD: Research

ARTS 448 - Senior Graphic Design Portfolio Preparation (4-6 Credits)
Advanced studies in professional presentations of visual communication projects, professional interviews, and graphic design business topics.
Prerequisites: C or better in ARTS 346.

ARTS 449 - Graphic Design Practicum (4 Credits)
Practical design experience for students through design or publicity problems in non profit organizations.
Prerequisites: C or better in ARTS 345 or ARTS 346.

ARTS 450 - Intermedia Studio I (4 Credits)
Advanced intermedia; formal and conceptual problems associated with combining multiple forms of imaging processes.

ARTS 451 - Intermedia Studio II (4 Credits)
Advanced intermedia; creation of portfolio work combining multiple forms of imaging processes.

ARTS 455 - Advanced Jewelymaking I (4 Credits)
Advanced problems and individual investigation in jewelymaking techniques.
Prerequisites: C or better in ARTS 356.

ARTS 456 - Advanced Jewelymaking II (4 Credits)
Advanced problems and individual investigation in jewelymaking techniques.
Prerequisites: C or better in ARTS 455.

ARTS 460 - Photography Portfolio (4 Credits)
Advanced techniques and career practices in photography. The development of personal vision through the production of a fine arts portfolio. Students may work with any photographic process (digital or analog) towards the completion of a cohesive body of work.
Prerequisites: C or better in ARTS 360 or ARTS 361.

ARTS 461 - Photography Exhibition (4-6 Credits)
Advanced concepts in photography. The development of personal vision culminating in a collaborative exhibition. Students may work with any photographic process (analog or digital).
Prerequisites: C or better in ARTS 360 or ARTS 361.

ARTS 465 - Advanced Illustration (4 Credits)
Projects in advertising and editorial illustration. Further development of style, media, and technique.
Prerequisites: C or better in ARTS 265.

ARTS 466 - Advanced Illustration II (4 Credits)
Projects in commercial illustration. Further development of style, media, and technique with emphasis in development of commercial portfolio.
Prerequisites: C or better in ARTS 265 or ARTS 266.

ARTS 498 - Independent Study (3-9 Credits)
Culminating in a collaborative exhibition. Students may work with any photographic process (digital or analog) towards the completion of a cohesive body of work.
Prerequisites: C or better in ARTS 345 or ARTS 346.

ARTS 499 - Independent Study (3-9 Credits)
Graduation with Leadership Distinction: GLD: Research

ARTS 500 - Visual Meaning (4 Credits)
The analysis, structuring, and production of individual works of art using traditional and non-traditional approaches.

ARTS 501 - Art Business (3 Credits)
Business practices for the studio artist. Contracts, portfolio preparation, promotion, alternate professions, museums, galleries, copyright, and shipping will be discussed.

ARTS 510 - Painting I (6 Credits)
BFA Painting Capstone course stressing focus on further development of individual approaches to painting culminating in a cohesive body of work and a written thesis defense.
Prerequisites: ARTS 210, ARTS 211, ARTS 310, and ARTS 311.
ARTS 511 - Painting II (6 Credits)
BFA Painting Capstone course focusing on further development of individual approaches to painting culminating in a BFA Senior Thesis Exhibition and defense.
Prerequisites: ARTS 510.

ARTS 512 - Introduction to Watercolor (3 Credits)
Introduction to traditional and experimental transparent watercolor technique. Encompasses field work at off campus locations.

ARTS 513 - Advanced Watercolor (3 Credits)
Advanced study of watercolor and water-based media with emphasis on individual creative expression. Encompasses field work at off campus locations.

ARTS 514 - Workshop: Painting (4 Credits)
Advanced study in various painting problems, content varies by title.

ARTS 515 - Printmaking I (3 Credits)
Further development of individual approaches to printmaking.
Prerequisites: ARTS 416.

ARTS 516 - Capstone Printmaking I: Professional Practices (3-6 Credits)
Professional development practices including preparing a portfolio and oral presentation of work, researching career options, and preparing applications for exhibition and funding opportunities.
Prerequisites: ARTS 215 and one ARTS 300 - ARTS 400 level print course.

ARTS 517 - Capstone Printmaking II: Exhibition (3-6 Credits)
Preparing for an exhibition.
Prerequisites: ARTS 215 and one ARTS 300 - ARTS 400 level print course.

ARTS 519 - Workshop: Printmaking (3 Credits)
Advanced investigation and analysis of various printmaking techniques. Topic varies by title.

ARTS 520 - Ceramics I (6 Credits)
Further development of a personal approach to the ceramic process, supported by an investigation of ceramic history.
Prerequisites: ARTS 421.

ARTS 521 - Ceramics II (6 Credits)
Further development of a personal approach to the ceramic process, supported by an investigation of ceramic history.
Prerequisites: ARTS 520.

ARTS 524 - Workshop: Ceramics (3 Credits)
Advanced investigation and analysis of problems and methods in ceramics. Topics vary by title.

ARTS 525 - Three-Dimensional Studies I (3-6 Credits)
Personal concepts and expressions in various three-dimensional media.
Prerequisites: C or Better in ARTS 425 or ARTS 426.

ARTS 526 - Three-Dimensional Studies II (3-6 Credits)
Personal concepts and expressions in various three-dimensional media.
Prerequisites: C or better in ARTS 425 or ARTS 426.

ARTS 529 - Workshop: Three-Dimensional Studies (3 Credits)
Investigation and analysis of various three-dimensional concepts, processes, and techniques. Content varies by title.

ARTS 530 - Drawing Capstone I (3-6 Credits)
Further development of individual approaches to drawing with emphasis on intellectual and visual perception as content.
Prerequisites: ARTS 431.

ARTS 531 - Drawing Capstone II (6 Credits)
Further development of individual drawing with emphasis on intellectual and emotive approaches.
Prerequisites: ARTS 530.

ARTS 532 - Advanced Life Drawing (3 Credits)
Human anatomy and instruction in drawing and painting the model from life in a variety of media.
Prerequisites: ARTS 232 or ARTS 233.

ARTS 535 - Fiber Arts I (3 Credits)
Advanced study in the processes and materials of fiber arts.
Prerequisites: ARTS 436.

ARTS 536 - Fiber Arts II (3 Credits)
Advanced study in the processes and materials of fiber arts.
Prerequisites: ARTS 535.

ARTS 537 - Papermaking (3 Credits)
The art and techniques of handmade paper.

ARTS 539 - Workshop: Fiber Arts (3 Credits)
Advanced study in various technical aspects of fiber arts. Topic varies by title.

ARTS 545 - Internship in Graphic Design (4 Credits)
Work experience at a visual communication place of business.
Prerequisites: C or better in ARTS 346.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ARTS 546 - Graphic Design II (3 Credits)
Advanced individual projects in graphic design.
Prerequisites: ARTS 545.

ARTS 555 - Jewelrymaking I (4 Credits)
The development of individual directions in jewelrymaking.
Prerequisites: C or better in ARTS 456.

ARTS 556 - Jewelrymaking II (3 Credits)
The development of individual directions in jewelrymaking.
Prerequisites: ARTS 555.

ARTS 558 - Crafts (3 Credits)
Contemporary applications of traditional craft media, emphasizing the design and conceptual development of works of art.

ARTS 559 - Workshop: Jewelrymaking (3 Credits)
Advanced study in various technical aspects of jewelrymaking. Topic varies by title.

ARTS 560 - Photography Thesis: Portfolio (6 Credits)
Further development of individual approaches to photography.
Prerequisites: ARTS 460.

ARTS 561 - Photography Thesis: Exhibition (6 Credits)
Further development of individual approaches to photography.
Prerequisites: ARTS 461.

ARTS 564 - Workshop: Photography (4 Credits)
Advanced investigation and analysis of problems in photography. Topic varies by title.

ARTS 570 - Visual Arts Computing (3 Credits)
Advanced visual arts computing techniques on using software such as Photoshop, Studio Pro, and Netscape.
Prerequisites: ARTS 102.
ARTS 590 - Video Art: Theory and Practice (3 Credits)
Television as a medium; small format video systems are used in the creation of individual projects.

ARTS 595 - Independent Study (3 Credits)
Independent study for advanced undergraduate majors and graduate students in art studio. Approved independent study contract required for enrollment.

FAMS 110 - Media Culture (3 Credits)
Introduction to the critical study of film, video, photography, audio, and new media.
Cross-listed course: MART 110
Carolina Core: AIU

FAMS 180 - Film Culture (3 Credits)
How the film industry developed and the impact the movies have had on global popular culture. Does not count toward the film studies major.
Carolina Core: AIU

FAMS 240 - Film and Media Analysis (3 Credits)
Introduction to the critical study of film and media. Students will closely analyze moving images and develop written arguments about film and media.
Carolina Core: AIU

FAMS 300 - Film and Media History (3 Credits)
Surveys the development of cinema and related media from the 1820s to the present. Attention to the relations among key technological, cultural, and industrial changes, their causes, and consequences.
Carolina Core: GHS

FAMS 301 - Media, Power & Everyday Life (3 Credits)
Foundational approaches to media as a means of defining and distributing social power in everyday life.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 308 - Global Media Industries (3 Credits)
Provides the foundation for the study of globalized film and media industries.
Cross-listed course: GLST 308

FAMS 310 - Special Topics In Popular Media (3 Credits)
Intensive study of a specific topic in popular film and media. May be repeated up to three times for a total of nine credit hours as content varies by title.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 311 - Classical Hollywood Cinema (3 Credits)
Survey of Classical Hollywood Cinema in aesthetic, cultural, political, and economic contexts.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 316 - Music and the Hollywood Film (3 Credits)
Examination of how music guides audience interpretation and shapes Hollywood film style.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 325 - Superheroes across Media (3 Credits)
Examination of the superhero within and across media, industries, and eras addressing topics such as genre, style, seriality, remediation, franchising, and fandom.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 350, or ENGL 350.

FAMS 328 - The Blockbuster (3 Credits)
Examination of the post-1975 blockbuster film phenomenon with an emphasis on marketing, finance, and reception.
Prerequisite or Corequisite: C or better in FAMS 308.

FAMS 330 - Special Topics in Non-Film Media (3 Credits)
Intensive study of a specific topic concerning a medium or mediums other than film. May be repeated up to three times for a total of nine credit hours as content varies by title.
Prerequisites: C or better in FAMS 240 or FAMS 300.

FAMS 332 - American Television (3 Credits)
Examination of American television as an industry, art form, medium of social representation, and set of viewer practices.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 338 - Contemporary British Television Industry (3 Credits)
Examination of industrial structures, network histories, production cultures, and regulation contexts of contemporary British television.
Prerequisite or Corequisite: C or better in FAMS 308.

FAMS 350 - Introduction to Comics Studies (3 Credits)
Scholarly study of the formal and aesthetic evolutions of graphic novels, comic books, and other related forms.
Cross-listed course: ENGL 350

FAMS 360 - Special Topics in Global Media (3 Credits)
Intensive study of a specific topic in film and media centered outside the U.S. May be repeated up to three times for a total of nine credit hours as content varies by title.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 361 - Middle East on Screen (3 Credits)
Examines representations of the Middle East on screen within multiple media-making traditions and considers their aesthetic, political, and ethical dimensions.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 363 - Hong Kong Action Cinema (3 Credits)
Survey of the transnational history of Hong Kong action cinema and introduction to critical approaches through which it has been studied.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 365 - Screening China (3 Credits)
Survey of Chinese language cinema. Chinese film history and vocabulary with which to discuss film texts. Covers classic leftwing cinema, Hong Kong martial arts films, as well as the Hong Kong, Taiwan, and PRC New Waves. Taught in English. Films subtitled.
Cross-listed course: CHIN 365

FAMS 380 - Special Topics in Alternative Media (3 Credits)
Intensive study of a specific topic concerning film and media forms and/or practices outside the commercial mainstream. May be repeated as many as three times for a total of nine credit hours as content varies by title.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 381 - History of Experimental Film (3 Credits)
Survey of key examples and tendencies in the history of experimental film.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 383 - Documentary Studies (3 Credits)
History, theory, and practices of documentary film and media.
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.
FAMS 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and program director is required.
Graduation with Leadership Distinction: GLD: Research

FAMS 470 - Genre Studies Film & Media (3 Credits)
Critical study of a popular genre (e.g., horror, science fiction, melodrama), or set of genres, in film and media. Course content varies and will be announced in the schedule of courses by title. May be repeated as topics vary.

FAMS 499 - Internship in Film and Media Studies (3 Credits)
Internship in Film and Media Studies. (Variable) Supervised professional experience working with media production, distribution, exhibition, archiving, and/or education.
Prerequisite or Corequisite: C or better in FAMS 308.

FAMS 510 - Topics in Film Media Histories (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

FAMS 511 - Special Topics in Film and Media Studies (3 Credits)
Intensive study of a specific topic in film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: ARTH 551, MART 591

FAMS 566 - Topics in US Film and Media (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

FAMS 581 - Critical Interactives (3 Credits)
Foundational techniques in multidisciplinary software development, specifically of applications designed to present sensitive, sometimes controversial, materials in ways to engender empathic awareness of the interactor.
Cross-listed course: CSCE 571

FAMS 598 - Special Topics in Global Film and Media (3 Credits)
Intensive study of a specific topic in film, video, photography, audio, and video, while emphasizing the histories and theories that led to and support the current state of the media arts.
Prerequisites: FAMS 240.

Cross-listed course: FORL 598, MART 594
Graduation with Leadership Distinction: GLD: Global Learning

MART 101 - Making Media That Matters (3 Credits)
Introductory media arts creation and study for non-majors. Developing an individual aesthetic for the screen and related media by becoming proficient in the conception, creation, and refinement of graphics, audio, and video, while emphasizing the histories and theories that led to and support the current state of the media arts.

MART 100 - Media Culture (3 Credits)
Introduction to the critical study of film, video, photography, audio, and new media.
Cross-listed course: FAMS 110
Carolina Core: AIU

MART 201 - Foundations of Media Arts Production (3 Credits)
Fundamental conceptual and technical aspects of media.
Carolina Core: AIU

MART 210 - Digital Media Arts Fundamentals (3 Credits)
Introduction to theory and practice of origination, sequencing, and processing of screen-based and related media art.
Carolina Core: AIU

MART 262 - Digital Imaging (3 Credits)
Aesthetic and communicative elements of the production of digital images, including capture, processing, and output.

MART 321 - Media Writing (3 Credits)
Storytelling forms and formats for screen-based and related media arts.

MART 341 - Sound Design (3 Credits)
Aesthetic and communicative elements of audio design for screen-based and related media arts.
Prerequisites: MART 210.

MART 371 - The Moving Image (3 Credits)
Introduction to the theory and practice of motion picture production.
Prerequisites: MART 201 and MART 210.

MART 380 - New Media Art (3 Credits)
Introduction to the design and development of new media art, including internet-based art, media performance, installation, and interactivity.
Prerequisites: MART 210 or ARTS 102.

MART 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

MART 490 - Special Topics in Media Arts (3 Credits)
May be repeated once for credit as topic varies by title.

MART 495 - Research Seminar (3 Credits)
Research in a selected area of media arts.
Prerequisites: junior status

Graduation with Leadership Distinction: GLD: Research

MART 499 - Internship in Media Arts (3-6 Credits)
Supervised experience in media productions and media production facilities. Contract approved by instructor, advisor, and department head is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

MART 521A - Media Writing Advanced: Screenwriting (3 Credits)
Advanced study of screenwriting. Content varies by course title: 521A Screenwriting; 521B Feature Film; 521C Manga and Anime; 521D Television Writing. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 321.

MART 521B - Media Writing Advanced: Feature Film (3 Credits)
Advanced study of feature film writing. Content varies by course title: 521A Screenwriting; 521B Feature Film; 521C Manga and Anime; 521D Television Writing. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 321.
MART 521C - Media Writing Advanced: Manga and Anime (3 Credits)
Advanced study of Manga and Anime. Content varies by course title: 521A Screenwriting; 521B Feature Film; 521C Manga and Anime; 521D Television Writing. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 321.

MART 521D - Media Writing Advanced: Television Writing (3 Credits)
Advanced study of television writing. Content varies by course title: 521A Screenwriting; 521B Feature Film; 521C Manga and Anime; 521D Television Writing. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 321.

MART 571A - Moving Image Advanced: Narrative (3 Credits)
Narrative for motion picture.
Prerequisites: MART 371.

MART 571B - Moving Image Advanced: Documentary (3 Credits)
Documentary production.
Prerequisites: MART 371.

MART 571C - Moving Image Advanced: Animation (3 Credits)
Animation production.
Prerequisites: MART 371.

MART 571D - Moving Image Advanced: Experimental (3 Credits)
Experimental motion picture production.
Prerequisites: MART 371.

MART 571E - Moving Image Advanced: Cinematography (3 Credits)
Motion picture cinematography.
Prerequisites: MART 371.

MART 571F - Moving Image Advanced: Sound for Motion Picture (3 Credits)
Sound production for motion picture.
Prerequisites: MART 371.

MART 581A - New Media Advanced: Site-based and Installation Art (3 Credits)
Art and practice of site-based and installation art. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 581B - New Media Advanced: Mobile Platforms (3 Credits)
Art and practice of mobile platforms. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 581C - New Media Advanced: Media Performance (3 Credits)
Art and practice of media performance. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 581D - New Media Advanced: Video Game Design (3 Credits)
Art and practice of video game design. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 581E - New Media Advanced: Sound Art (3 Credits)
Art and practice of sound art. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 590 - Special Topics in Media Arts (3 Credits)
Selected topics in media arts. Course content varies and will be announced in the schedule of classes by title.

MART 591 - Special Topics in Film and Media Studies (3 Credits)
Intensive study of a specific topic in film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: ARTH 551, FAMS 511

MART 592 - Special Topics in Film and Media Histories (3 Credits)
Intensive study of a specific topic in film and media history. May be repeated as content varies by title.
Prerequisites: FAMS 300.

MART 593 - Special Topics in U.S. Film and Media (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

MART 594 - Special Topics in Global Film and Media (3 Credits)
Intensive study of a specific topic concerning films produced in a country other than the United States. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: FAMS 598, FORL 598

MART 598 - Media Management and Distribution (3 Credits)
Research in media management and distribution.
Prerequisites: MART 110 and MART 210.

Art Education, B.F.A.

Learning Outcomes

- Students will demonstrate the ability to make art using two and three-dimensional materials appropriate for use in elementary and early childhood settings.
- Students will demonstrate the ability to make art using two and three-dimensional materials appropriate for use in secondary settings.
- Students will write an arts unit of instruction centered on relevant themes and demonstrates the ability to write learning outcomes that match assessment.
- Students will recall the kinds of assessment used in the elementary and secondary art classroom and demonstrate its use in the arts unit of instruction by creating various assessment tools.
- Students will recall various teaching strategies used for challenging different kinds of learners and integrative learning.
• Students will develop communication skills and motivational strategies for teaching.
• Students will gain expertise in curriculum development and lesson planning.
• Students will successfully develop and teach two demonstration lessons as part of the Young Artists Workshop.
• Students will begin to master successful teaching skills and behaviors and become aware of how such skills and behaviors are measured through the ADEPT assessment instrument, which student teachers and all first year teachers in South Carolina must successfully master.
• Students will gain knowledge of the Collaborative Educational Leader and be able to describe each element of the framework.
• Students will observe or practice teaching in a school setting for at least 3 hours each week for a total of 30 hours.
• Students will record observations of teaching content, interaction patterns, classroom management, use of technology, use of time and space, and knowledge of students.
• Students will write reflective papers and or a case study on a specific issue or situation that they observe between K-12 students and the teacher.
• The student will discuss appropriate dispositions that underlie the knowledge and practice required of candidates: Integrity, Intellectual Spirit, Justice, and Stewardship.
• Students will create digital artworks by utilizing contemporary interactive technologies.
• Students write original scripts for their animation and video films.
• Students will develop curriculum outlines for integrating digital technologies into the K-12 art curriculum.
• Students will analyze and respond to assigned course readings in writing.
• Students will present assigned course readings to class.
• Students will analyze historical and contemporary approaches to children’s artistic development through written responses.
• Students will demonstrate a grasp of course readings via midterm test.
• Students will develop research skills by conducting art projects in an after school setting and documenting observations of children’s art making with field notes.
• Students will write a research paper based on their observations of children’s art making.
• Students will pass the praxis II exam and qualify for certification in the state of South Carolina.
• Students will develop ways to apply the art curriculum to the public school classroom utilizing interdisciplinary approaches to plan and initiate a K-12 sequential curriculum that incorporates art production, art criticism, aesthetics, art history and art assessment, and conforms to National, State and local Visual and Performing Arts Standards for each grade level or course they teach.
• Students will develop and use effective classroom management strategies.
• Students will write and teach age/grade appropriate lesson plans for the grade levels assigned.
• Students will successfully complete the requirements of the ADEPT evaluation system for Adept Performance Standards one, two, three and ten.
• Document the student teaching experience through self-evaluation checklists, journal entries, lesson plans, and a visual record of student art making and art making processes (photographs).

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (123-140 hours)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core (32-46 hours)</td>
<td>32-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0-3</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>42</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>51</td>
</tr>
</tbody>
</table>

1. Carolina Core (32-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*must be passed with a grade of C or higher*

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
Students must choose one course from:
• ENGL 270
• ENGL 282
• ENGL 283
• ENGL 284
• ENGL 285
• ENGL 286
• ENGL 287
• ENGL 288

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. At least one of these requirements must be satisfied by a course not applied elsewhere in general education. (3-9 Hours)

2. College Requirements (0-3 hours)
• Foreign language course (0-3 hours) - only if needed to meet 122-level proficiency

3. Program Requirements (42 hours)
Supporting Courses (42 hours)
The following professional courses in education are required for all students preparing to teach art in K-12 settings:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 525</td>
<td>Elementary Methods for K-12 Art Certification</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 525P</td>
<td>Elementary Methods for K-12 Art Certification Practicum</td>
<td>1</td>
</tr>
<tr>
<td>ARTE 530</td>
<td>Art of Children</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 540</td>
<td>The School Art Program</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 540P</td>
<td>Practicum in Art Education</td>
<td>1</td>
</tr>
<tr>
<td>ARTE 550</td>
<td>Incorporating New Media in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 560</td>
<td>Secondary Methods for K-12 Art Certification</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 560P</td>
<td>Secondary Methods for K-12 Art Certification Practicum</td>
<td>1</td>
</tr>
<tr>
<td>ARTE 565</td>
<td>Field Experience Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 571</td>
<td>Directed Teaching in Art</td>
<td>12</td>
</tr>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDPY 401</td>
<td>Learners and the Diversity of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDRD 500</td>
<td>Content Area Literacy PK-12</td>
<td>3</td>
</tr>
<tr>
<td>or EDEX 581</td>
<td>Teaching Reading in the Content Area to Adolescents with Reading Disabilities</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 42

1 ARTE 525 & ARTE 525P are corequisites.
2 ARTE 540 & ARTE 540P are corequisites.
3 ARTE 560 & ARTE 560P are corequisites.
4 Block courses: ARTE 571 and ARTE 565 are taken in the last year of study.

4. Major Requirements (49 hours)
A minimum grade of C is required in all major courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 103</td>
<td>Fundamentals of Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 104</td>
<td>3-Dimensional Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 111</td>
<td>Basic Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a 200-400 level Drawing course from the following: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 230</td>
<td>Introduction to Drawing</td>
<td></td>
</tr>
<tr>
<td>ARTS 232</td>
<td>Figure Structure I</td>
<td></td>
</tr>
<tr>
<td>ARTS 233</td>
<td>Figure Structure II</td>
<td></td>
</tr>
<tr>
<td>ARTS 330</td>
<td>Intermediate Drawing I</td>
<td></td>
</tr>
<tr>
<td>ARTS 331</td>
<td>Intermediate Drawing II</td>
<td></td>
</tr>
<tr>
<td>ARTS 430</td>
<td>Advanced Drawing I</td>
<td></td>
</tr>
<tr>
<td>ARTS 431</td>
<td>Advanced Drawing II</td>
<td></td>
</tr>
</tbody>
</table>

Select a 200 or above Painting course from the following: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 210</td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td>ARTS 211</td>
<td>Beginning Painting II</td>
<td></td>
</tr>
<tr>
<td>ARTS 310</td>
<td>Intermediate Painting I</td>
<td></td>
</tr>
<tr>
<td>ARTS 311</td>
<td>Intermediate Painting II</td>
<td></td>
</tr>
<tr>
<td>ARTS 410</td>
<td>Advanced Painting I</td>
<td></td>
</tr>
<tr>
<td>ARTS 411</td>
<td>Advanced Painting II</td>
<td></td>
</tr>
<tr>
<td>ARTS 500</td>
<td>Visual Meaning</td>
<td></td>
</tr>
<tr>
<td>ARTS 514</td>
<td>Workshop: Painting</td>
<td></td>
</tr>
</tbody>
</table>

Select a 200-400 level Printmaking course from the following: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 215</td>
<td>Introduction to Printmaking</td>
<td></td>
</tr>
<tr>
<td>ARTS 315</td>
<td>Intermediate Printmaking I: Relief</td>
<td></td>
</tr>
</tbody>
</table>
Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Art History, B.A.

Learning Outcomes

- Upon completion of the B.A. in Art History majors should be able to demonstrate in writing an ability to conduct a visual analysis of a work of art in order to determine meaning.
- Upon completion of the art history program majors should be able to demonstrate the mastery of a basic vocabulary of art terms.
- Upon completion of the Art History B.A. majors should be able to write coherently and persuasively about works of art.
- Upon completion of the Art History B.A. students should demonstrate in writing their ability to conduct basic research on a work of art in terms of resources at both the library and online.
- Upon completion of the Art History B.A. degree students should be able to identify and date the basic periods in the history of art and to distinguish works of art according to the basic period to which they belong.
- Upon completion of the Art History B.A. degree a student will be able to identify, describe, and explain the applications of the basic art history methodologies currently in use in the profession.
- Upon completion of the Art History B.A. degree students should have a working knowledge and appreciation of the creative process in at least one medium.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.
Degree Requirements (120 hours)

Program of Study

Requirements Credit Hours
1. Carolina Core 32-44
2. College Requirements 15-18
3. Program Requirements 34-49
4. Major Requirements 24

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)

any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or

- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)

Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (3 hours of Social Science and 9 hours of Fine Arts or Humanities)

If only 1 of the following courses was taken to fulfill a Carolina Core requirement, then a second course below must be taken as a Fine Arts or Humanities: (must be passed with a grade of C or higher)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 105</td>
<td>History of Western Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 106</td>
<td>History of Western Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 107</td>
<td>History of Asian Art</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 9
3. Program Requirements (34-49 hours)

Cognate or Minor (12-18 hours)

Cognate

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (16-37 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (24 hours)

Must be passed with a grade of C or higher.

Major Courses (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 501</td>
<td>Methodologies of Art History</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 3

Major Electives (21 hours)

- Select 12 hours from ARTH at the 200-level or above
- Select an additional 6 hours from ARTH at the 500-level
- Select 3 hours ARTS

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Art History, B.A.

Art Studio Minor

Minor Requirements (18 Hours)

Foundations Courses (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 102</td>
<td>Introduction to Visual Arts Computing</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 103</td>
<td>Fundamentals of Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 104</td>
<td>3-Dimensional Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 107</td>
<td>Color and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 111</td>
<td>Basic Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Additional Courses (12 Hours)

Choose three 200+ level 4-credit ARTS courses. It is recommended that students follow the discipline-specific Advisement Tracks when choosing their courses, to focus in Graphic Design, Drawing, Painting, Printmaking, Photography, Ceramics, Sculpture, Jewelrymaking, or Generalist 2D or 3D Studio. These Advisement Tracks are available through the School of Visual Art and Design.

Art Studio, B.A.

Learning Outcomes

- Students must possess the technical skills, perceptual development, and understanding of principles of visual organization sufficient to achieve basic visual communication and expression in multiple media.
- Demonstrate technical proficiency in each discipline.
- Conceptualize ideas through visual media.
- Articulate the relevance of critical theory and art historical precedents.
• B.A. Studio Art undergraduate students will demonstrate their aesthetic literacy through their 2D and 3D artwork.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

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2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>19-34</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>39</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
* must be passed with a grade of C or higher
  • any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)
  • any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)
Two 4-credit hours CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
  • CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
  • any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  • any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
* must be passed with a grade of C or higher
  • ARTH 105

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
  • any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)
  • any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)
  • any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
  • only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or

• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106,
HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)

- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (3 hours of Social Science & 3 hours in Fine Arts or Humanities)
- ARTH 1061
- 300-level or above ARTH elective1

1 Must be passed with a grade of C or higher.

3. Program Requirements (19-34 hours)

Cognate or Minor (12-18 hours)

Cognate

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (1-22 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (39 hours)

Must be passed with a grade of C or higher.

Foundations Requirements (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 102</td>
<td>Introduction to Visual Arts Computing</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 103</td>
<td>Fundamentals of Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 104</td>
<td>3-Dimensional Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 107</td>
<td>Color and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 111</td>
<td>Basic Drawing I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Major Electives (24 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three of the following:</td>
<td></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td>ARTS 210</td>
<td>Introduction to Painting</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 215</td>
<td>Introduction to Printmaking</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 220</td>
<td>Beginning Ceramics</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 225</td>
<td>Introduction to Three-Dimensional Studies</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 230</td>
<td>Introduction to Drawing</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 245</td>
<td>Graphic Design I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 261</td>
<td>Introduction to Photography</td>
<td>4</td>
</tr>
<tr>
<td>Select two 200-level or above ARTS electives</td>
<td></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td>Select one 300-level or above ARTS elective</td>
<td></td>
<td><strong>4</strong></td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

Note: Students must complete at least one course from the following list of approved Carolina Core Integrative (INT) courses when choosing courses in the major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 310</td>
<td>Intermediate Painting I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 311</td>
<td>Intermediate Painting II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 315</td>
<td>Intermediate Printmaking I: Relief</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 316</td>
<td>Intermediate Printmaking II: Screen</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 320</td>
<td>Intermediate Ceramics I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 321</td>
<td>Intermediate Ceramics II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 325</td>
<td>Intermediate Three-Dimensional Studies I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 326</td>
<td>Intermediate Three-Dimensional Studies II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 330</td>
<td>Intermediate Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 331</td>
<td>Intermediate Drawing II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 360</td>
<td>Advanced Black &amp; White Photography</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 361</td>
<td>Digital Photography</td>
<td>4</td>
</tr>
</tbody>
</table>
Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Art Studio, B.A.

Art Studio, B.F.A.

Learning Outcomes

• All BFA Studio Art undergraduate students will define and explain development of art, within their own and other cultures, from pre-history to the present.
• All BFA Studio Art undergraduate students will critically analyze aspects of the design and art making process and evaluate theories, philosophies, and research in the practice of the studio arts.
• All BFA Studio Art undergraduate students will, through their artwork, demonstrate their competency of aesthetic literacy.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>0-10</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>63</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (8 hours)

• any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

• Two 4-credit hours CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

must be passed with a grade of C or higher

• ARTH 106

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)

• any overlay or stand-alone CC-VSR course (p. 743)
1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (3 hours of Social Science)
- One course selected from Modern Art History (must be passed with a grade of C or higher)
- Two additional courses selected from Art History, including one at the 500-level selected from Art History (must be passed with a grade of C or higher)

3. Program Requirements (0-10 hours)

Cognate or Minor (0 hours)
A cognate or minor is not required for the BFA with a major in Art Studio.

Electives (0-10 hours)
No courses of remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (63 hours)
A minimum grade of C is required in all major courses.

Foundations Requirements (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 102</td>
<td>Introduction to Visual Arts Computing</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 103</td>
<td>Fundamentals of Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 104</td>
<td>3-Dimensional Design I</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentrations (48 hours)
Select one concentration from the following:

Ceramics Concentration (48 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 220</td>
<td>Beginning Ceramics</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 225</td>
<td>Introduction to Three-Dimensional Studies</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 325</td>
<td>Intermediate Three-Dimensional Studies I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 320</td>
<td>Intermediate Ceramics I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 321</td>
<td>Intermediate Ceramics II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 420</td>
<td>Advanced Ceramics I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 421</td>
<td>Advanced Ceramics II (6 hours required)</td>
<td>6</td>
</tr>
<tr>
<td>ARTS 520</td>
<td>Ceramics I</td>
<td>6</td>
</tr>
</tbody>
</table>
Select ARTS electives - 200-level or above 12

Total Credit Hours 48

Graphic Design Concentration (48 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 245</td>
<td>Graphic Design I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 246</td>
<td>Graphic Design II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 260</td>
<td>Photography for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 265</td>
<td>Illustration</td>
<td>4</td>
</tr>
<tr>
<td>or ARTS 266</td>
<td>Illustration II</td>
<td></td>
</tr>
</tbody>
</table>
Select one of the following: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 345</td>
<td>Visual and Verbal Interaction</td>
<td></td>
</tr>
<tr>
<td>300-level or higher course in Drawing, Painting, or Printmaking</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Select one of the following: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 346</td>
<td>Series Development and Practice</td>
<td></td>
</tr>
<tr>
<td>300-level or higher course in Drawing, Painting, or Printmaking</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ARTS 445 | Time and Sequence            | 4       |
Select one of the following: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 446</td>
<td>Structures</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 465</td>
<td>Advanced Illustration</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 466</td>
<td>Advanced Illustration II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 448</td>
<td>Senior Graphic Design Portfolio Preparation (5 hours required)</td>
<td>5</td>
</tr>
</tbody>
</table>
Select one of the following: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 545</td>
<td>Internship in Graphic Design</td>
<td></td>
</tr>
<tr>
<td>400-level ARTS course in Drawing, Painting, or Printmaking</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Select ARTS electives - 200-level or above 8

Total Credit Hours 48

Drawing Concentration (48 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 230</td>
<td>Introduction to Drawing</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 232</td>
<td>Figure Structure I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 233</td>
<td>Figure Structure II</td>
<td>4</td>
</tr>
<tr>
<td>or ARTS 265</td>
<td>Illustration</td>
<td></td>
</tr>
</tbody>
</table>
ARTS 330 | Intermediate Drawing I       | 4       |
ARTS 331 | Intermediate Drawing II      | 4       |
### Film and Media Studies Minor

**Minor Requirements (18 Hours)**

- **Required Courses (6 Hours)**
  - Develop core competencies in Film and Media Studies through these foundations courses.
  - 
    | Course  | Title                  | Credits |
    |---------|------------------------|---------|
    | FAMS 240 | Film and Media Analysis | 3       |
    | FAMS 300 | Film and Media History  | 3       |

  - **Total Credit Hours**: 6

- **Electives (12 Hours)**
  - Broaden and focus your understanding of film and media by selecting 4 additional FAMS courses numbered 301 or above.

  - Additional (non-FAMS) courses may used as electives when approved by the Director of Film and Media Studies.

  - **Total Credit Hours**: 12

---

### Sculpture Concentration (48 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 220</td>
<td>Beginning Ceramics</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 225</td>
<td>Introduction to Three-Dimensional Studies</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 320</td>
<td>Intermediate Ceramics I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 325</td>
<td>Intermediate Three-Dimensional Studies I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 326</td>
<td>Intermediate Three-Dimensional Studies II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 425</td>
<td>Advanced Three-Dimensional Studies I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 426</td>
<td>Advanced Three-Dimensional Studies II (6 hours required)</td>
<td>6</td>
</tr>
<tr>
<td>ARTS 525</td>
<td>Three-Dimensional Studies I (6 hours required)</td>
<td>6</td>
</tr>
</tbody>
</table>

- **Total Credit Hours**: 48

---

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

---

### Sculpture Concentration (48 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 220</td>
<td>Beginning Ceramics</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 225</td>
<td>Introduction to Three-Dimensional Studies</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 320</td>
<td>Intermediate Ceramics I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 325</td>
<td>Intermediate Three-Dimensional Studies I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 326</td>
<td>Intermediate Three-Dimensional Studies II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 425</td>
<td>Advanced Three-Dimensional Studies I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 426</td>
<td>Advanced Three-Dimensional Studies II (6 hours required)</td>
<td>6</td>
</tr>
<tr>
<td>ARTS 525</td>
<td>Three-Dimensional Studies I (6 hours required)</td>
<td>6</td>
</tr>
</tbody>
</table>

- **Total Credit Hours**: 48

---

### Film and Media Studies Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAMS 240</td>
<td>Film and Media Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 300</td>
<td>Film and Media History</td>
<td>3</td>
</tr>
</tbody>
</table>

- **Total Credit Hours**: 6

- **Electives (12 Hours)**
  - Broaden and focus your understanding of film and media by selecting 4 additional FAMS courses numbered 301 or above.

  - Additional (non-FAMS) courses may used as electives when approved by the Director of Film and Media Studies.

  - **Total Credit Hours**: 12

---

### Sculpture Concentration (48 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 220</td>
<td>Beginning Ceramics</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 225</td>
<td>Introduction to Three-Dimensional Studies</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 320</td>
<td>Intermediate Ceramics I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 325</td>
<td>Intermediate Three-Dimensional Studies I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 326</td>
<td>Intermediate Three-Dimensional Studies II</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 425</td>
<td>Advanced Three-Dimensional Studies I</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 426</td>
<td>Advanced Three-Dimensional Studies II (6 hours required)</td>
<td>6</td>
</tr>
<tr>
<td>ARTS 525</td>
<td>Three-Dimensional Studies I (6 hours required)</td>
<td>6</td>
</tr>
</tbody>
</table>

- **Total Credit Hours**: 48

---

### Film and Media Studies Minor

**Minor Requirements (18 Hours)**

- **Required Courses (6 Hours)**
  - Develop core competencies in Film and Media Studies through these foundations courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAMS 240</td>
<td>Film and Media Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 300</td>
<td>Film and Media History</td>
<td>3</td>
</tr>
</tbody>
</table>

  - **Total Credit Hours**: 6

- **Electives (12 Hours)**
  - Broaden and focus your understanding of film and media by selecting 4 additional FAMS courses numbered 301 or above.

  - Additional (non-FAMS) courses may used as electives when approved by the Director of Film and Media Studies.

  - **Total Credit Hours**: 12
### Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

### Degree Requirements (120 hours)

#### Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>31-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

#### 1. Carolina Core Requirements (32-44 hours)

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- any CC-CMW courses (p. 743)

**ARP – Analytical Reasoning and Problem Solving (6-8 hours)**

- any CC-ARP courses (p. 743)

**SCI – Scientific Literacy (8 hours)**

- Two 4-credit hour CC-SCI courses (p. 743)

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

*It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.*

### Film and Media Studies, B.A.

#### Learning Outcomes

Upon completion of the major students will be able to: write compelling arguments that are supported by evidence; identify key precedents for their own arguments about media; apply moving image analysis to explain how specific media examples communicate to audiences, and with what implications and effects; and evaluate specific media works and events in a global, historical context. The foundational courses indicated below focus on the development of these skills.

- Upon completion of FAMS 301 students will be able to identify key precedents for their own arguments about media.
- Upon completion of FAMS 240 students will be able to apply moving image analysis to explain how specific media examples communicate to audiences and with what implications and effects.
- Upon completion of FAMS 300 students will be able to evaluate specific media works and events in an historical context.
- Upon completion of FAMS 308 students will be able to evaluate specific media works and events in a global context.

#### Admissions

**Entrance Requirements**

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of

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<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAMS 308</td>
<td>Global Media Industries</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 310</td>
<td>Special Topics In Popular Media</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 311</td>
<td>Classical Hollywood Cinema</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 316</td>
<td>Music and the Hollywood Film</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 325</td>
<td>Superheroes across Media</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 328</td>
<td>The Blockbuster</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 330</td>
<td>Special Topics in Non-Film Media</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 332</td>
<td>American Television</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 338</td>
<td>Contemporary British Television Industry</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 350</td>
<td>Introduction to Comics Studies</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 360</td>
<td>Special Topics in Global Media</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 361</td>
<td>Middle East on Screen</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 363</td>
<td>Hong Kong Action Cinema</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 365</td>
<td>Screening China</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 380</td>
<td>Special Topics in Alternative Media</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 381</td>
<td>History of Experimental Film</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 389</td>
<td>Independent Study</td>
<td>3-9</td>
</tr>
<tr>
<td>FAMS 470</td>
<td>Genre Studies Film &amp; Media</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 499</td>
<td>Internship in Film and Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 510</td>
<td>Topics in Film Media Histories</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 511</td>
<td>Special Topics in Film and Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 566</td>
<td>Topics in US Film and Media</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 581</td>
<td>Critical Interactives</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 598</td>
<td>Special Topics in Global Film and Media</td>
<td>3</td>
</tr>
</tbody>
</table>
GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
   • any CC-GHS course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category or FAMS 300

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
   • any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
   • FAMS 240

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
   • any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
   • any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
   • any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible
   Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
   • only if needed to meet 122-level proficiency

History (3 hours)
   • GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category and FAMS 300. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement.

Social Science and Fine Arts or Humanities (12 hours)
   • Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
     • Three hours of Social Science
     • Nine hours of Fine Arts or Humanities

3. Program Requirements (31-46 hours)

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.)

The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (13-34 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (27 hours)

Must be passed with a grade of C or higher.
### Major Courses (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAMS 301</td>
<td>Media, Power &amp; Everyday Life</td>
<td>3</td>
</tr>
<tr>
<td>FAMS 308</td>
<td>Global Media Industries</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours**: 6

### Major Electives (21 hours)

In choosing their electives, majors are expected to individualize their programs of study while becoming broadly knowledgeable about the diverse and increasingly interconnected global media landscape. Students are encouraged to pursue internships, study abroad opportunities, and graduation with leadership distinction.

### Production Requirement (3 hours)

Majors are expected to cultivate an understanding of the media they study by learning about the production process.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MART 201</td>
<td>Foundations of Media Arts Production</td>
<td>3</td>
</tr>
<tr>
<td>MART 210</td>
<td>Digital Media Arts Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MART 371</td>
<td>The Moving Image</td>
<td>3</td>
</tr>
<tr>
<td>MART 380</td>
<td>New Media Art</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours**: 3

### 300-level Electives (12 hours)

Electives at this level provide a breadth of knowledge while allowing students to focus on topics of interest to them.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select at least one course focusing on popular narrative forms in mainstream commercial media (FAMS 310-FAMS 319):</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FAMS 310</td>
<td>Special Topics In Popular Media</td>
<td></td>
</tr>
<tr>
<td>FAMS 311</td>
<td>Classical Hollywood Cinema</td>
<td></td>
</tr>
<tr>
<td>FAMS 316</td>
<td>Music and the Hollywood Film</td>
<td></td>
</tr>
<tr>
<td>FAMS 325</td>
<td>Superheroes across Media</td>
<td></td>
</tr>
<tr>
<td>FAMS 328</td>
<td>The Blockbuster</td>
<td></td>
</tr>
<tr>
<td>Select at least one course focusing specifically on media other than film (e.g., photography, television, games, comics, and/or emerging media—FAMS 330-FAMS 339):</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FAMS 330</td>
<td>Special Topics in Non-Film Media</td>
<td></td>
</tr>
<tr>
<td>FAMS 332</td>
<td>American Television</td>
<td></td>
</tr>
<tr>
<td>FAMS 338</td>
<td>Contemporary British Television Industry</td>
<td></td>
</tr>
<tr>
<td>FAMS 350</td>
<td>Introduction to Comics Studies</td>
<td></td>
</tr>
<tr>
<td>Select at least one course that emphasizes global media (FAMS 360-FAMS 379):</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FAMS 360</td>
<td>Special Topics in Global Media</td>
<td></td>
</tr>
<tr>
<td>FAMS 361</td>
<td>Middle East on Screen</td>
<td></td>
</tr>
<tr>
<td>FAMS 363</td>
<td>Hong Kong Action Cinema</td>
<td></td>
</tr>
<tr>
<td>FAMS 365</td>
<td>Screening China</td>
<td></td>
</tr>
<tr>
<td>JAPA 350</td>
<td>Japanese Culture and Society through Film</td>
<td></td>
</tr>
<tr>
<td>Select at least one course focusing on media forms outside the commercial mainstream (FAMS 380-FAMS 398):</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FAMS 380</td>
<td>Special Topics in Alternative Media</td>
<td></td>
</tr>
<tr>
<td>FAMS 381</td>
<td>History of Experimental Film</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**: 12

### Additional Electives (6 hours)

To complete the major, students should select two courses from the following that will develop skills and deepen knowledge acquired through their previous selection of courses. At least one of these must be a FAMS Carolina Core Integrative (CC-INT) course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select at least two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Any FAMS course numbered FAMS 310-FAMS 398</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAMS 399</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>FAMS 470</td>
<td>Genre Studies Film &amp; Media</td>
<td></td>
</tr>
<tr>
<td>FAMS 499</td>
<td>Internship in Film and Media Studies</td>
<td></td>
</tr>
<tr>
<td>FAMS 510</td>
<td>Topics in Film Media Histories (CC-INT)</td>
<td></td>
</tr>
<tr>
<td>FAMS 511</td>
<td>Special Topics in Film and Media Studies (CC-INT)</td>
<td></td>
</tr>
<tr>
<td>FAMS 566</td>
<td>Topics in US Film and Media (CC-INT)</td>
<td></td>
</tr>
<tr>
<td>FAMS 581</td>
<td>Critical Interactives</td>
<td></td>
</tr>
<tr>
<td>FAMS 598</td>
<td>Special Topics in Global Film and Media (CC-INT)</td>
<td></td>
</tr>
<tr>
<td>Another course approved by the program director</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**: 6

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

### Media Arts Minor

### Minor Requirements (18 Hours)

Students must complete courses with a grade of “C” or higher.

### Required Courses (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MART 201</td>
<td>Foundations of Media Arts Production</td>
<td>3</td>
</tr>
<tr>
<td>MART 210</td>
<td>Digital Media Arts Fundamentals</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours**: 6

### Selected Courses (12 Hours)

- Select four additional MART courses from 200 level or above, two of which must be at the 400 level or above. MART 499 and MART 399 may not apply to the minor in Media Arts.

### Media Arts, B.A.

### Learning Outcomes

- Media Arts students will demonstrate proficiency of technique across a variety of platforms and processes for the creation of media artworks.
• Media Arts students will be able to work individually and in teams to create aesthetically and conceptually sophisticated works of media art.
• Media Arts students will publicly present their work at and beyond the University in screenings, festivals, galleries, conferences, and other forums.
• Media Arts students will be able to identify and analyze the impact of media art as it relates to global media practices and culture.
• Media Arts students will be able to describe and evaluate the relationship between their own artwork and its place in the larger community of artists and practitioners.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

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<tr>
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</thead>
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<td>1. Carolina Core</td>
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</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>28-43</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>30</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW course (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP course (p. 743)

SCI – Scientific Literacy (8 hours)

• two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

• only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:
• One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.

or

• One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)

• Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
  - Three hours of Social Science
  - Nine hours of Fine Arts or Humanities

3. Program Requirements (28-43 hours)

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (10-31 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (30 hours)

must be passed with a grade of C or higher

Core Major Courses (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MART 110</td>
<td>Media Culture</td>
<td>3</td>
</tr>
<tr>
<td>MART 201</td>
<td>Foundations of Media Arts Production</td>
<td>3</td>
</tr>
<tr>
<td>MART 210</td>
<td>Digital Media Arts Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MART 499</td>
<td>Internship in Media Arts</td>
<td>3</td>
</tr>
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</table>

Total Credit Hours 12

Major Electives (18 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Intermediate Courses (9 hours):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any FAMS course from 300-398</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>MART 262</td>
<td>Digital Imaging</td>
<td></td>
</tr>
<tr>
<td>MART 321</td>
<td>Media Writing</td>
<td></td>
</tr>
<tr>
<td>MART 341</td>
<td>Sound Design</td>
<td></td>
</tr>
<tr>
<td>MART 371</td>
<td>The Moving Image</td>
<td></td>
</tr>
<tr>
<td>MART 380</td>
<td>New Media Art</td>
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</tbody>
</table>

Advanced Courses 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MART 521A</td>
<td>Media Writing Advanced: Screenwriting</td>
<td></td>
</tr>
<tr>
<td>MART 521B</td>
<td>Media Writing Advanced: Feature Film</td>
<td></td>
</tr>
<tr>
<td>MART 521C</td>
<td>Media Writing Advanced: Manga and Anime</td>
<td></td>
</tr>
<tr>
<td>MART 521D</td>
<td>Media Writing Advanced: Television Writing</td>
<td></td>
</tr>
<tr>
<td>MART 571A</td>
<td>Moving Image Advanced: Narrative</td>
<td></td>
</tr>
<tr>
<td>MART 571B</td>
<td>Moving Image Advanced: Documentary</td>
<td></td>
</tr>
<tr>
<td>MART 571C</td>
<td>Moving Image Advanced: Animation</td>
<td></td>
</tr>
<tr>
<td>MART 571D</td>
<td>Moving Image Advanced: Experimental</td>
<td></td>
</tr>
<tr>
<td>MART 571E</td>
<td>Moving Image Advanced: Cinematography</td>
<td></td>
</tr>
<tr>
<td>MART 571F</td>
<td>Moving Image Advanced: Sound for Motion Picture</td>
<td></td>
</tr>
<tr>
<td>MART 581A</td>
<td>New Media Advanced: Site-based and Installation Art</td>
<td></td>
</tr>
<tr>
<td>MART 581B</td>
<td>New Media Advanced: Mobile Platforms</td>
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</tr>
<tr>
<td>MART 581C</td>
<td>New Media Advanced: Media Performance</td>
<td></td>
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<tr>
<td>MART 581D</td>
<td>New Media Advanced: Video Game Design</td>
<td></td>
</tr>
<tr>
<td>MART 581E</td>
<td>New Media Advanced: Sound Art</td>
<td></td>
</tr>
<tr>
<td>MART 590</td>
<td>Special Topics in Media Arts</td>
<td></td>
</tr>
<tr>
<td>MART 591</td>
<td>Special Topics in Film and Media Studies</td>
<td></td>
</tr>
<tr>
<td>MART 592</td>
<td>Special Topics in Film and Media Histories</td>
<td></td>
</tr>
</tbody>
</table>
Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Media Arts, B.A.

Sociology
Department Website (http://www.cas.sc.edu/socy/)
Brent Simpson, Chair

The department offers two undergraduate majors. Students may elect programs leading to the Bachelor of Arts degree in sociology or to the Bachelor of Science degree in sociology. Students may also attempt to graduate with honors in sociology if they have a 3.50 overall average and a 3.50 in sociology. Under that program students are required to conduct, write, and defend a research project.

Programs
• Sociology Minor (p. 276)
• Sociology, B.A. (p. 277)
• Sociology, B.S. (p. 279)

Courses
SOCY 101 - Introductory Sociology (3 Credits)
An introduction to sociological facts and principles: an analysis of group-making processes and products.
Carolina Core: GSS

SOCY 220 - Elementary Statistics for Sociologists (3 Credits)
An introduction to concepts and application of quantitative methods, including descriptive and inferential statistics. Emphasis on analysis of empirical sociological data.

SOCY 300 - Social Structures (3 Credits)
Selected theoretical orientations, methodological procedures, and illustrative substantive data pertaining to social structures.

SOCY 301 - Sex and Gender (3 Credits)
Offers a sociological lens to develop critical ways of thinking about sex and gender as social processes in everyday lives. This course considers how sex and gender shape and affect the experiences of women, men, girls, boys, and individuals who live in the spaces in-between (those who are intersex or transgender) across a wide range of social institutions (family, work, education, politics, etc.).
Prerequisites: SOCY 101.

Cross-listed course: WGST 300
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 302 - Sociological Theory (3 Credits)
Examination of key ideas from classical, modern, and contemporary sociological theories.

SOCY 303 - Sociological Research Methods (3 Credits)
Qualitative and quantitative methods of sociological research.

SOCY 304 - Race, Class, Gender, and Sexuality (3 Credits)
Historical and contemporary power relationships in race, social class, gender, and sexual orientation.
Prerequisites: SOCY 101.

Cross-listed course: POLI 305, WGST 304
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 305 - Sociology of Families (3 Credits)
Sociological perspectives related to various aspects of family behaviors, roles, and values.
Prerequisites: SOCY 101.

Cross-listed course: WGST 305
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 307 - Sociology of Religion (3 Credits)
Sociological perspectives related to selected aspects of religious behavior. Includes references to non-Western religions.
Cross-listed course: RELG 338
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 308 - Community Organization (3 Credits)
An analysis of formal and informal organization, the interrelationships among public and private agencies, and means through which community action programs are initiated, coordinated, and maintained.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 309 - An Introduction to Social Inequality (3 Credits)
A sociological analysis of the distribution of wealth and income in selected societies.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
SOCY 310 - Social Demography (3 Credits)
Introduction to key areas of population studies. Methodological approaches, time trends, regional differences, and contemporary policy issues.
Carolina Core: GSS

SOCY 311 - Ecology of Human Social Systems (3 Credits)
Relationships among and changes in populations, social organization, technology, and the environment.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SOCY 312 - Bureaucracy and Modern Society (3 Credits)
Bureaucracies in the public and private sector, their internal dynamics and relationship to the social environment.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SOCY 313 - Sociology of Aging (3 Credits)
Analysis of aging as a process of socialization and the status of older people in society, their roles in the community, demographic aspects of aging, and the impact of aging upon social institutions.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 315 - Global Population Issues (3 Credits)
Overview of global population history, theory, statistics, and issues related to recent population trends.
Graduation with Leadership Distinction: GLD: Global Learning

SOCY 320 - Individual and Society (3 Credits)
Selected theoretical orientations, methodological procedures, and illustrative substantive data pertaining to the relations between the individual and society.

SOCY 322 - Sociology of Suicide (3 Credits)
An introductory survey of the social aspects of suicidal behaviors and attitudes.

SOCY 323 - Sociology of Deviant Behavior (3 Credits)
Theories, methodology, and substantive issues in the study of social deviance.

SOCY 325 - Sociology of Childhood (3 Credits)
A consideration of the child in the family group, play group, school group, and community.

SOCY 326 - Sociology of Adolescence (3 Credits)
Sociological perspectives and research findings related to adolescence.

SOCY 330 - Sociology of the Paranormal (3 Credits)
A critical examination of factors that lead to the widespread acceptance of paranormal claims.
Prerequisites: SOCY 101.

SOCY 340 - Introduction to Social Problems (3 Credits)
Contemporary social issues such as poverty, health, the criminal justice system, globalization and the environment, their causes and possible solutions.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy

SOCY 350 - Juvenile Delinquency (3 Credits)
Social factors in the development, identification, and treatment of delinquents.
Prerequisites: SOCY 101.

Cross-listed course: CRJU 351
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 351 - Urban Sociology (3 Credits)
Analysis of urban trends, characteristics, and functions of cities with reference to the social psychological factors in urban living. Attention is directed to the emergence of urbanism in the United States, with particular reference to the Southern region, and to institutions, problems, and city planning.

SOCY 353 - Sociology of Crime (3 Credits)
Social factors in the development, identification, and treatment of criminals.
Prerequisites: SOCY 101.

Cross-listed course: CRJU 341
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 354 - Collective Behavior (3 Credits)
An analysis of crowds, publics, social movements, and the mass society in terms of their institutional and social psychological consequences.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SOCY 355 - Race and Ethnic Relations (3 Credits)
Theoretical and empirical approaches related to race/ethnicity and the current state of race relations in America, with some attention to global issues.
Cross-listed course: AFAM 355
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 357 - Sociology of Education (3 Credits)
Analysis of educational institutions, organizations, processes, and their effects in contemporary society.
Cross-listed course: EDFI 357
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 360 - Sociology of Medicine and Health (3 Credits)
Health and illness in relation to social institutions. The organization and professionalization of medicine and social barriers to medical care.

SOCY 368 - Society through Visual Media (3 Credits)
Analysis of social phenomena and sociological questions through various forms of media, including films, TV, photography, and other visual media.
Prerequisites: SOCY 101.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 370 - Sociology of Sport (3 Credits)
Theories, methods, and substantive issues in the study of sport in contemporary societies.

SOCY 398 - Topics in Sociology (3 Credits)
Reading and research on selected sociological topics. Course content varies and will be announced in the schedule of classes by title.
SOCY 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

SOCY 460 - Sociology of Mental Health (3 Credits)
Social factors in the development, identification, and treatment of mental illness.
Graduation with Leadership Distinction: GLD: Research

SOCY 500 - Social Networks (3 Credits)
Analysis of personal, social and organizational networks, their structural patterns, practical consequences, and principles of formation and change.

SOCY 502 - Political Sociology (3 Credits)
Theory and research concerning the interrelationship between the polity and social structures.

SOCY 503 - Family and Social Stratification (3 Credits)
An analysis of the contemporary American family emphasizing social stratification, mobility, occupations, and urbanization.

SOCY 504 - Social Stratification (3 Credits)
Theory and research in social stratification.

SOCY 505 - Social Structures in Communities (3 Credits)
Interrelationships of major social structures within communities.
Graduation with Leadership Distinction: GLD: Research

SOCY 506 - Social Organizations (3 Credits)
Selected theoretical orientation, methodological procedures, and illustrative substantive issues pertaining to organizations.

SOCY 507 - Sociology of Social Control (3 Credits)
Theories and issues relating to the definition of and response to crime and/or deviance.
Graduation with Leadership Distinction: GLD: Research

SOCY 509 - Advanced Social Structures (3 Credits)
The analysis of core methodological and substantive issues in the study of social structures.

SOCY 510 - Life Course Demographics (3 Credits)
People's demographic lives, structural contexts, and social change. Emphasis on the socioeconomic context in which lives unfold.
Prerequisites: SOCY 310.

SOCY 512 - Internal and International Migration (3 Credits)
A survey of methods of analysis and research findings with emphasis on the social and economic concomitants of internal migration. Cultural, economic, and historical aspects of international migration. Effects of governmental policies on immigration and emigration. Examination of selected countries.

SOCY 514 - Urbanization (3 Credits)
Analysis of urbanization using contemporary and historical data from developing societies. The demographic components of metropolitan growth and the changing structure of metropolitan communities.

SOCY 515 - Scientific Methods and Sociological Inquiry (3 Credits)
Introduction to methods used to answer theoretical, empirical, and practical sociological questions, including scientific inquiry and research design.

SOCY 520 - Advanced Social Psychology (3 Credits)
Advanced survey of social psychological perspectives and research on inequality, discrimination, power and status, cooperation and collective action, social norm and morality, networks and relationships.

SOCY 521 - Small Group Analysis (3 Credits)
A behavioral analysis of small groups.

SOCY 522 - Power and Authority Structures in Groups (3 Credits)
An exploration of theoretical perspectives, methodological approaches, and substantive issues in the study of interpersonal power and authority.

SOCY 523 - Social Processes of Deviance Control (3 Credits)
A systematic analysis of the interrelation among the creation, involvement, recognition, and control of deviance.

SOCY 524 - Interpersonal Behavior in Families (3 Credits)
Social psychological perspectives on family behavior.

SOCY 525 - Selves and Social Transaction (3 Credits)
A systematic analysis of interrelationships among social acts, selves, roles, transactions, and language.

SOCY 540 - Sociology of Law (3 Credits)
Review of theoretical and empirical developments in the sociology of law, including classical and modern sociological theories of law and selected sociological themes of law in various social settings.

SOCY 550 - Sociology of Science (3 Credits)
Interrelationships among society, culture, and contemporary science.

SOCY 557 - Sociology of Education and Inequality (3 Credits)
Advanced inquiry into the relationship between education and inequality.
Graduation with Leadership Distinction: GLD: Research

SOCY 560 - Advanced Sociological Theory (3 Credits)
Theoretical perspectives on society and social behavior.

SOCY 561 - Integrative Research Experience (3 Credits)
Design and conduct of original research using sociological research methods to meet Carolina Core Integrative course requirement for the BA and the BS.
Prerequisites: SOCY 101, SOCY 220 and SOCY 300-level or higher course.

Experiential Learning: Experiential Learning Opportunity

SOCY 562 - Advanced Sociological Research Methods (3 Credits)
Advanced survey of methods used in sociological research.

SOCY 598 - Selected Topics (3 Credits)
Readings and research on selected sociological topics. Course and content varies and will be announced in the schedule of classes by title.
Prerequisites: SOCY 101.

SOCY 599 - Advanced Independent Study (3-6 Credits)
Advanced Independent study. Contract approved by instructor, advisor, and department chair is required.
Prerequisites: SOCY 101.

SOCY 698 - Special Topics (3 Credits)
Reading and research.
Prerequisites: SOCY 101.

Sociology Minor
Minor Requirements (18 Hours)
Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>31-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required for all baccalaureate degrees. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)
must be passed with a grade of C or higher

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  - SOCY 101 – must be passed with a grade of C or higher

AIU – Aesthetic and Interpretive Understanding (3 hours)
  - any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
  - any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
  - any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
  - any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
  - only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

  - One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  or
  - One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
  - Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)
    - Three hours of Social Science
    - Nine hours of Fine Arts or Humanities

3. Program Requirements (31-46 hours)

Supporting Courses (3 hours)
must be passed with a grade of C or higher

• SOCY 220

Cognate or Minor (12-18 hours)

Cognate
The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate. For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (10-31 hours)
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (27 hours)
A minimum grade of C is required in all major courses.
Major Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCY 302</td>
<td>Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 303</td>
<td>Sociological Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 561</td>
<td>Integrative Research Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 9

Major Electives (18 hours)

- Select 4 additional SOCY courses from the 300-level or above
- Select 2 additional SOCY courses from the 500-level or above

B.A. with Distinction in Sociology

The Departmental Undergraduate Research Track (BA with Distinction in Sociology) is available to students majoring in Sociology who maintain a minimum GPA of 3.50 in the major and 3.50 cumulative and who wish to plan and conduct an individual research project under the supervision of a faculty committee.

A student seeking to graduate with Distinction in Sociology must select a faculty member to chair the committee that guides and evaluates the research project. At least two other faculty members will be appointed by the committee chair to serve as members of the committee. A written sponsorship agreement signed by the committee chair must be filed with the departmental chair. The student must successfully defend a research proposal and final paper to the committee. Ideally, the project should be finished within two semesters.

Research projects must conform to the University’s policy on the treatment of human subjects. Proposals must additionally be subjected to the scrutiny of the Department of Sociology ethics committee.

Requirements

- Cumulative GPA of 3.50 or higher and a GPA of 3.50 or higher in the major;
- Successful completion of requirements for the Sociology major;
- Research proposal approved by faculty committee;
- Successful completion of 3-6 hours SOCY 599 including written and oral presentation of research project.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Sociology, B.A.

Sociology, B.S.

Learning Outcomes

- Sociology majors completing the required SOCY 561 (https://academicbulletins.sc.edu/search/?P=SOCY%20561) capstone course will demonstrate they understand the general sociological perspective and the uses of sociological theory, can apply critical reasoning skills to evaluating theoretical explanations, and can identify uses and limitations of major sociological research methods in evaluating theories. Majors will evidence the ability to apply these skills to the study of social issues of broad impact and interest beyond the discipline.
- Sociology majors completing advanced substantive courses (500-level) will demonstrate they
  a. understand the major sociological theories in a specific substantive area of specialization,
  b. can critically evaluate competing theories in the field, and
  c. can identify and critique major methodological approaches within the specialty area.
  Examples of substantive areas are Social Inequality, Social Psychology, Sociology of the Family, and Sociology of Medicine and Health.
- Sociology majors will demonstrate an understanding and ability to use the following statistical tools:
  a. The distinction between descriptive and inferential statistics
  b. Levels of measurement, ratios and rates
  c. Various measures of central tendency and statistical variability used to describe distributions
  d. Hypothesis testing, sampling and inference from sample estimates for a population
  e. Simple bivariate modeling techniques such as correlation and regression.
- Students should demonstrate that they can apply elementary statistical tools and research methods to the analysis of basic sociological questions.
- Graduating sociology majors should evidence an integrated preparation for career pursuits and self assess their career preparation as adequate for career plans at the point of graduation.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.
Degree Requirements (120 hours)
Program of Study

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<th>Requirements</th>
<th>Credit Hours</th>
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<td>3. Program Requirements</td>
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<td>4. Major Requirements</td>
<td>27</td>
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</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- MATH 141 or MATH 122
- MATH 142 or MATH 170 or MATH 172

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required for all baccalaureate degrees. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- SOCY 101 — must be passed with a grade of C or higher

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6 hours)

- STAT 201 (or equivalent) or higher
- CSCE 102 (or equivalent) or higher

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)

Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305)

- Three hours of Social Science
- Three hours of Fine Arts or Humanities

3. Program Requirements (31-46 hours)

Supporting Courses (3 hours)

must be passed with a grade of C or higher

- SOCY 220

Cognate or Minor (12-18 hours)

Cognate

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in
Major Electives (18 hours)

- Select 4 additional SOCY courses from the 300-level or above
- Select 2 additional SOCY courses from the 500-level or above

B.A. with Distinction in Sociology

The Departmental Undergraduate Research Track (BS with Distinction in Sociology) is available to students majoring in Sociology who maintain a minimum GPA of 3.50 in the major and 3.50 cumulative and who wish to plan and conduct an individual research project under the supervision of a faculty committee.

A student seeking to graduate with Distinction in Sociology must select a faculty member to chair the committee that guides and evaluates the research project. At least two other faculty members will be appointed by the committee chair to serve as members of the committee. A written sponsorship agreement signed by the committee chair must be filed with the departmental chair. The student must successfully defend a research proposal and final paper to the committee. Ideally, the project should be finished within two semesters.

Research projects must conform to the University’s policy on the treatment of human subjects. Proposals must additionally be subjected to the scrutiny of the Department of Sociology ethics committee.

Requirements

- Cumulative GPA of 3.50 or higher and a GPA of 3.50 or higher in the major;
- Successful completion of requirements for the Sociology major;
- Research proposal approved by faculty committee;
- Successful completion of 3-6 hours SOCY 599 including written and oral presentation of research project.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Sociology, B.S.

Southern Studies

Department Website (http://www.cas.sc.edu/iss/)

Robert Brinkmeyer, Director

The interdisciplinary minor in Southern Studies offers training in analytic methods and research skills designed to help students excel in their departmental fields of concentration and establish a lasting basis for independent exploration of the South.

Courses

SOST 101 - The Literary South (3 Credits)

Principles, practices, and contexts of major literary works of the American South.

Carolina Core: AIU
SOST 298 - Topics in the American South (3 Credits)
Reading and research on selected interdisciplinary topics in Southern Studies. Course content varies and will be announced in the schedule of classes by title. May be repeated for credit under a different title.

SOST 299 - Topics is South Carolina (3 Credits)
Reading and research on selected interdisciplinary topics about South Carolina. Course content varies and will be announced in the schedule of classes by title. May be repeated for credit under a different title.

SOST 301 - Introduction to Southern Studies 1580-1900 (3 Credits)
Examination of major social and cultural developments of American South from early exploration to 1900.

SOST 302 - Introduction to Southern Studies: The Twentieth Century (3 Credits)
An topical examination of the American South ranging from Reconstruction to the Civil Rights Movement.

Carolina Core: GHS
Graduation with Leadership Distinction: GLD: Research

SOST 305 - The Contemporary South (3 Credits)
An investigation of Southern regional identity.

SOST 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and program director is required for undergraduates.

Graduation with Leadership Distinction: GLD: Research

SOST 405 - Topics in Southern Studies (3 Credits)
Reading and research on selected topics in Southern studies. Course content varies and will be announced in the schedule of classes by title.

Graduation with Leadership Distinction: GLD: Research

SOST 500 - Topics in the American South (3 Credits)
Selected topics related to the study of the American South. Course content varies and will be announced in the schedule of classes by title. May be repeated for credit as topics vary.

Statistics

Department Website (http://www.stat.sc.edu/)

Joshua Tebbs, Chair

The department offers the Bachelor of Science degree with a major in statistics. The program provides a strong basis in both applied and theoretical statistics and prepares a student for the pursuit of graduate study in statistics or for employment by industry or government. In addition, the department serves many of the disciplines within the University through course offerings which provide basic statistical skills necessary to the pursuit of studies in these disciplines.

Programs

• Statistics Minor (p. 284)
• Statistics, B.S. (p. 284)

Courses

STAT 110 - Introduction to Statistical Reasoning (3 Credits)
A course in statistical literacy. Topics include data sources and sampling, concepts of experimental design, graphical and numerical data description, measuring association for continuous and categorical variables, introduction to probability and statistical inference, and use of appropriate software. Credit given only for STAT 110 or STAT 112.
Carolina Core: ARP

STAT 112 - Statistics and the Media (3 Credits)
Statistics and the Media. (3) Statistical and information literacy. Experimental and survey design; descriptive statistics; basic probability; simple confidence intervals and hypothesis tests; statistical software; collection, management, and evaluation of information; and presentation of statistics in the media. Credit given for only STAT 110 or STAT 112.
Carolina Core: ARP, INF

STAT 201 - Elementary Statistics (3 Credits)
Introduction to the fundamentals of modern statistical methods, including descriptive statistics, probability, random sampling, simple linear regression, correlation, tests of hypotheses, and estimation.
Prerequisites: MATH 111 or MATH 115 or STAT 110.
Carolina Core: ARP

STAT 205 - Elementary Statistics for the Biological and Life Sciences (3 Credits)
Introduction to fundamental statistical methods with applications in the biological and life sciences. Includes descriptive statistics; probability; one and two-sample models for population means; contingency tables (including relative risk, odds ratios, case-control studies, and estimation of sensitivity and specificity); linear regression; logistic regression; aspects of survival analysis, and ANOVA.
Prerequisites: MATH 111 or higher.
Carolina Core: ARP

STAT 206 - Elementary Statistics for Business (3 Credits)
Fundamental statistical methods with applications in business. Includes descriptive statistics, graphical methods, probability, distributions, sampling, inference, contingency tables, and linear regression.
Prerequisites: MATH 111 or higher.
Carolina Core: ARP

STAT 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

STAT 506 - Introduction to Experimental Design (3 Credits)
Techniques of experimentation based on statistical principles with application to quality improvement and other fields. Full and fractional factorial designs for factors at two levels; dispersion effects; related topics.
Prerequisites: C or higher in MATH 122 or MATH 141; or both MATH 111 or higher and any statistical class.
Carolina Core: ARP

STAT 509 - Statistics for Engineers (3 Credits)
Basic probability and statistics with applications and examples in engineering. Elementary probability, random variables and their distribution, random processes, statistical inference, linear regression, correlation and basic design of experiments with application to quality assurance, reliability, and life testing. May not be taken concurrently with or after STAT 513, STAT 515, or STAT 516. Not for C.A.S., M.A.S., or Ph.D credit in Statistics.
Prerequisites: MATH 142 or equivalent.
STAT 511 - Probability (3 Credits)
Probability and independence; discrete and continuous random variables; joint, marginal, and conditional densities; moment generating functions; laws of large numbers; binomial, Poisson, gamma, univariate and bivariate normal distributions.
Prerequisites: C or better in MATH 241.
Corequisite: MATH 241.
Cross-listed course: MATH 511

STAT 512 - Mathematical Statistics (3 Credits)
Functions of random variables, order statistics, sampling distributions, central limit theorem, quality of estimators, interval estimation, sufficient statistics, minimum-variance unbiased estimator, maximum likelihood, large-sample theory, introduction to hypothesis testing.
Prerequisites: C or better in STAT 511 or MATH 511.

STAT 513 - Theory of Statistical Inference (3 Credits)
Hypothesis testing, Neyman-Pearson lemma, likelihood ratio tests, power, the theory of linear models including multiple linear regression and ANOVA, the Chi-square goodness-of-fit test, Chi-square inference for contingency tables, Bayesian inference, and advanced topics including survival analysis (only if time permits).
Prerequisites: C or better in STAT 512.

STAT 514 - Statistical Methods I (3 Credits)
Applications and principles of elementary probability, essential discrete and continuous probability distributions, sampling distributions, estimation, and hypothesis testing. Inference for means, variances, proportions, one-way ANOVA, simple linear regression, and contingency tables. Statistical packages such as SAS or R. May not be taken concurrently with or after STAT 509, STAT 513, or STAT 516. Not for CAS, MAS, MS, or PhD credit in Statistics.
Prerequisites: C or higher in MATH 122 or MATH 141; or both MATH 111 or higher and any statistics class.

STAT 515 - Statistical Methods II (3 Credits)
Applications and principles of linear models. Simple and multiple linear regression, analysis of variance for basic designs, multiple comparisons, random effects, and analysis of covariance. Statistical packages such as SAS. Not for CAS, MAS, MS, or PhD credit in Statistics.
Prerequisites: C or higher in STAT 515, STAT 509, STAT 512, or equivalent.

STAT 516 - Advanced Statistical Models (3 Credits)
Theory and applications of advanced statistical models. Includes implementation and assessment of generalized linear, nonlinear and nonparametric regression, mixed effect, repeated measures, multivariate regression, and spatial models.
Prerequisites: STAT 512 or STAT 516 or equivalent.

STAT 517 - Nonparametric Statistical Methods (3 Credits)
Applications and principles of nonparametric statistics. Classical rank-based methods, and selected categorical data analysis and modern nonparametric methods. Statistical packages such as R.
Prerequisites: STAT 512 or STAT 516 or equivalent.

STAT 518 - Sampling (3 Credits)
Techniques of statistical sampling in finite populations with applications in the analysis of sample survey data. Topics include simple random sampling for means and proportions, stratified sampling, cluster sampling, ratio estimates, and two-stage sampling.
Prerequisites: C or higher in STAT 515, STAT 509, STAT 512, or equivalent.

STAT 519 - Forecasting and Time Series (3 Credits)
Time series analysis and forecasting using the multiple regression and Box-Jenkins approaches.
Prerequisites: STAT 516 or MGSC 391.
Cross-listed course: MGSC 520

STAT 520 - Financial Mathematics I (3 Credits)
Prerequisites: C or better in MATH 241.

STAT 521 - Applied Stochastic Processes (3 Credits)
An introduction to stochastic processes, including conditional probability, Markov chains, Poisson processes, and Brownian motion. Incorporates simulation and applications to actuarial science.
Prerequisites: C or higher in STAT 511.

STAT 522 - Financial Mathematics II (3 Credits)
Prerequisites: C or better in MATH 514 or STAT 522.

STAT 523 - Financial Mathematics III (3 Credits)
Shewhart Control Charts, and lot-acceptance sampling.
Prerequisites: STAT 509 or STAT 515 or MGSC 391.
Cross-listed course: MGSC 525

STAT 524 - Financial Mathematics IV (3 Credits)
Markov chains, Poisson processes, and Brownian motion. Incorporates an introduction to stochastic processes, including conditional probability, Markov chains, Poisson processes, and Brownian motion. Incorporates simulation and applications to actuarial science.
Prerequisites: C or higher in STAT 511.

STAT 525 - Statistical Quality Control (3 Credits)
Statistical procedures for process control including CUSUM and Shewhart Control Charts, and lot-acceptance sampling.
Prerequisites: STAT 509 or STAT 516 or MGSC 391.

STAT 526 - Statistical Quality Control (3 Credits)
Statistical quality control including CUSUM and Shewhart Control Charts, and lot-acceptance sampling.
Prerequisites: STAT 509 or STAT 516 or MGSC 391.

STAT 527 - Regression Analysis (3 Credits)
Applications and principles of regression analysis. Focus on data management and computing procedures such as Monte Carlo simulation.
Prerequisites: C or higher in STAT 515, STAT 509, STAT 512, or equivalent.
Statistics Minor

Minor Requirements (18 Hours)

• 18 hours of 500 level Statistics courses

Note: Credit will be given for only one of STAT 509 or STAT 515.

Statistics, B.S.

Learning Outcomes

• Students will demonstrate the ability to perform fundamental statistical analyses and to prepare informative graphics for public presentation.
• Students will demonstrate a mastery of probability and mathematical statistics at the mathematical level of calculus and linear algebra.
• Students will demonstrate the ability to use statistical programming languages.
• Students will demonstrate competency in technical writing and presentation.

Retention

To be retained in the program, a student must obtain a grade of C or higher in at most two attempts in all mathematics, computer science, and statistics courses required for graduation.

Transfer Requirement

Any student applying to transfer to the statistics major from other programs within the University, or from other accredited colleges and universities, is required to have earned a grade of "B" or higher in at least one of the following courses, or their equivalent: USC's MATH 141, MATH 142, STAT 509, or STAT 515. An AP or IB exam score that provides credit for MATH 142 also satisfies this requirement. STAT 509 and STAT 515 are advanced undergraduate courses. This requirement is in addition to the minimum University and College of Arts and Sciences requirements.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

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Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.
Degree Requirements (120 hours)

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<td>15-19</td>
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<tr>
<td>3. Program Requirements</td>
<td>28-44</td>
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<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (8 hours)

- MATH 141
- MATH 142

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1. Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-19 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

Analytical Reasoning (6-7 hours)

- MATH 344 or MATH 544
- CSCE 145 or CSCE 206

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (6 hours)

- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (3 hours of Social Science)
- ENGL 462 or ENGL 463 must be passed with a grade of C or higher

3. Program Requirements (28-44 hours)

Supporting Courses (3 hours)

- MATH 241

Cognate or Minor (12-18 hours)

Cognate

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in
one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

**Minor**
In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. **All minor courses must be passed with a grade of C or higher.** At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

**Electives (7-29 hours)**
No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. **Major Requirements (27 hours)**

_a minimum grade of C is required in all major courses_ 

**Major Courses (18 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>STAT 511</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>STAT 512</td>
<td>Mathematical Statistics</td>
<td>3</td>
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</tbody>
</table>

**Methods and Computation**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 515</td>
<td>Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 516</td>
<td>Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 540</td>
<td>Computing in Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours:** 18

1. A student double majoring in Mathematics and Statistics may use STAT 511 [=MATH 511] to satisfy a major requirement in both programs.

2. **Major Electives (9 hours)**
   - Select three courses from STAT 500 or above

1. Major credit will be given for only one of STAT 509 or STAT 515. Neither STAT 509 nor STAT 515 may be taken concurrently with, or after, STAT 513. A student who has started the Statistics major after taking STAT 512 may replace the STAT 509/STAT 515 requirement with an additional 3 hour advanced application course chosen from STAT 500 or above.

3. **Major with Actuarial Science Concentration (27 hours)**

The Concentration in Actuarial Science requires the Risk Management and Insurance Minor (p. 331) (18 hours).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 511</td>
<td>Probability</td>
<td>3</td>
</tr>
<tr>
<td>STAT 512</td>
<td>Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 513</td>
<td>Theory of Statistical Inference</td>
<td>3</td>
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</table>

**Methods and Computation**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 515</td>
<td>Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 516</td>
<td>Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 540</td>
<td>Computing in Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Advanced Applications**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 520</td>
<td>Forecasting and Time Series</td>
<td>3</td>
</tr>
<tr>
<td>STAT 521</td>
<td>Applied Stochastic Processes</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from STAT 500</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours:** 27

1. A student double majoring in Mathematics and Statistics may use STAT 511 [=MATH 511] to satisfy a major requirement in both programs.

2. Major credit will be given for only one of STAT 509 or STAT 515. Neither STAT 509 nor STAT 515 may be taken concurrently with, or after, STAT 513. A student who has started the Statistics major after taking STAT 512 may replace the STAT 509/STAT 515 requirement with an additional 3 hour advanced application course chosen from STAT 500 or above.
Note: A student double majoring in Economics (in the College of Arts and Sciences) and Statistics may use the combination of both ECON 436 and STAT 506 in place of the combination of both STAT 516 and one of the STAT 500 or above advanced application courses for the Statistics major. In this case ECON 436 may satisfy a major requirement in both programs. ECON 436 and STAT 516 may not both be used to satisfy major requirements in Statistics.

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Statistics, B.S. No Concentration

Statistics, B.S. Actuarial Science Concentration

**Theatre and Dance**

Department Website (http://www.cas.sc.edu/thea/)

Stephanie Milling, Interim Chair

**Programs**

The Department of Theatre and Dance offers the Bachelor of Arts degree with majors in theatre and dance.

**Theatre**

The theatre major is especially suitable for persons wishing a strong liberal arts education and/or preparation for careers in theatre, the entertainment industry, communication, education, law, medicine, the ministry, etc.

**Dance**

The Bachelor of Arts in Dance offers two concentrations: performance and choreography or dance education, and all students actively participate in departmental productions. The program is known for offering rigorous technical training while also providing opportunities for broad-based study in dance and beyond. Experience a world-class repertory, including historical dance works by George Balanchine, Martha Graham, Twyla Tharp, David Parsons, Lila York and Lynne Taylor Corbett, as well as original works by our eminent faculty. You will be exposed to dance techniques that include classical ballet, contemporary dance, jazz, musical theater and world dance. Students focusing in dance education have multiple opportunities to participate in professional learning experiences in a variety of educational and community settings while completing their studies. By extending the classroom into the field, students participate in hands-on learning that prepares them for teaching dance to a variety of populations while earning K-12 certification in dance.

**Courses**

DANC 101 - Dance Appreciation (3 Credits)
An eclectic survey of various dance forms including primitive, historic, ballet, modern, and Broadway musical.

Carolina Core: AIU

DANC 102A - Ballet Technique I (2 Credits)
A beginning study of ballet with emphasis on alignment, classical historical traditions, and combinations or movement. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 102B - Ballet Technique I (2 Credits)
A beginning study of ballet with emphasis on alignment, classical historical traditions, and combinations or movement. This course is for non dance majors. May be repeated up to six times for credit.

DANC 103 - The Dancer's Body (3 Credits)
Anatomy and movement analysis for dancers.

DANC 111A - World Dance I (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 111B - World Dance I (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for non dance majors. May be repeated up to six times for credit.

DANC 112A - Contemporary Dance Technique I (2 Credits)
An introduction to modern dance with the beginning practice of movement technique. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 112B - Contemporary Dance Technique I (2 Credits)
An introduction to modern dance with the beginning practice of movement technique. This course is for non dance majors. May be repeated up to six times for credit.

DANC 113A - World Dance II (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 113B - World Dance II (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for non dance majors. May be repeated up to six times for credit.

DANC 150 - Introduction to Dance (3 Credits)
Introduction to dance as art, communication, and cultural expression as it applies to a career in dance. Open to non-majors.

DANC 160A - Dance Improvisation and Composition (3 Credits)
An introductory course on dance composition and the creative process. Exploration and improvisation of different dance forms; specific choreographic tools. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 160B - Dance Improvisation and Composition (3 Credits)
An introductory course on dance composition and the creative process. Exploration and improvisation of different dance forms; specific choreographic tools. This course is for non dance majors. May be repeated up to six times for credit.

DANC 170 - Ballroom Dance I (2 Credits)
Introduction of six major dances (Foxtrot, Waltz, Tango, Cha Cha, Swing, and Rumba) to students with no dance experience. The emphasis will be on learning dance figures and patterns.
DANC 171 - Ballroom Dance II (2 Credits)
Intermediate steps will include challenging choreography or patterns. The emphasis in technique will be on developing speed and elegance while dancing complex patterns.
Prerequisites: DANC 170 or equivalent.

DANC 177 - Dance Company I (1 Credit)
This course is designed for rehearsals leading to dance performances; and including student choreography, on stage productions, the dance touring ensemble and components of dance production. Repeat seven times.

DANC 178 - Jazz Dance Technique I (2 Credits)
A beginning level class focusing on coordination, rhythm, alignment, jazz vocabulary, and jazz dance positions. May be repeated up to six times for credit.

DANC 202A - Ballet Technique II (1-2 Credits)
Second level of classical ballet technique facilitating skill in allegro and adagio work. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 102A or equivalent.

DANC 202B - Ballet Technique II (1-2 Credits)
Second level of classical ballet technique facilitating skill in allegro and adagio work. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 102B or equivalent.

DANC 204 - Pointe II (1-2 Credits)
Pointe technique and skills on pointe, an extension of ballet technique at the foundational level. May be repeated four times.
Prerequisites: DANC 202 or equivalent.

DANC 212A - Contemporary Dance Technique II (1-2 Credits)
A second level of contemporary technique, with emphasis on skill refinement and aesthetic elements. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 112A or equivalent, placement audition or permission of instructor.

DANC 212B - Contemporary Dance Technique II (1-2 Credits)
A second level of contemporary technique, with emphasis on skill refinement and aesthetic elements. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 112B or equivalent, placement audition or permission of instructor.

DANC 260 - Laban Movement Analysis (3 Credits)
An examination of Laban Movement analysis — a language for understanding, observing, describing and notating all forms of movement. Experiential, analytical and performance teaching methods will be used.
Prerequisites: DANC 160.

DANC 270 - Dance Education I: Introduction to Dance Education (2 Credits)
An overview of state and national standards, theoretical and philosophical perspectives that shape current practices for teaching dance in K-12 environments, and arts/dance education advocacy. Not open to freshmen. It is recommended that students have completed at least three semesters of technique.
Prerequisites: DANC 150 and DANC 160A.

DANC 275 - Pilates I (2 Credits)
Innovative system of exercises for the mind and body. Teaching posture, body awareness, and easy graceful movement at a beginner’s level.

DANC 278 - Jazz Dance Technique II (2 Credits)
An intermediate level class focusing on coordination, rhythm, alignment, jazz vocabulary, jazz dance positions, and expanded knowledge of theatrical jazz dance. May be repeated up to six times for credit.
Prerequisites: DANC 178.

DANC 281 - Dance History I (3 Credits)
Overview of the development of dance through the 19th century.

DANC 282 - Dance History II (3 Credits)
Development of dance from the 20th century to the present.
Prerequisites: DANC 281.

Graduation with Leadership Distinction: GLD: Global Learning
DANC 300 - Music for Dancers (3 Credits)
Rhythmic analysis, reading and metric patterns, construction and use of scores from musical theatre to symphonic orchestration with exercises to enhance the knowledge of relationship between dance and music.

DANC 302A - Ballet Technique III (1-2 Credits)
Third level of classical ballet technique. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 202A or equivalent.

DANC 302B - Ballet Technique III (1-2 Credits)
Third level of classical ballet technique. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 202B or equivalent.

DANC 304 - Intermediate Tap Dance (1 Credit)
Advanced fundamentals of tap dance, including intermediate/advanced rhythmic structure and incorporation of alignment and style.
Prerequisites: permission of instructor.

DANC 307 - West African Dance I (3 Credits)
The history and practice of indigenous West African dance.

DANC 310 - Dance Analysis and Criticism (3 Credits)
Theoretical practices and cultural perspectives of dance making.
Prerequisites: DANC 281 and DANC 282.

DANC 312A - Contemporary Dance Technique III (1-2 Credits)
A third level technique with refinement skills, and complex combinations. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 212A or equivalent.

DANC 312B - Contemporary Dance Technique III (1-2 Credits)
A third level technique with refinement skills, and complex combinations. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 212B or equivalent.
DANC 360 - Choreography I (3 Credits)
An intermediate level choreography and composition course designed to create and adapt work in different dance forms in modern, jazz, and ballet.
**Prerequisites:** DANC 260; recommend students to have completed at least three semesters of technique.

DANC 370 - Dance Education II: Creative Dance (3 Credits)
An introduction to motor development, movement concepts, elements, and skills that contribute to lesson planning, instruction, and assessment of creative dance in K-12 education. It is recommended that students have completed at least three semesters of ballet and contemporary technique and world dance.
**Prerequisites:** DANC 270 and 360.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

DANC 375 - Pilates II (2 Credits)
Innovative system of exercises for the mind and body. Teaching posture, body awareness, and easy graceful movement at an intermediate level.
**Prerequisites:** DANC 275 or equivalent.

DANC 377 - Historic Dance (3 Credits)
A course open to all students interested in gaining knowledge of early dances from the 15th Basse, Pavanne and Gaillarde of the Renaissance era to the Baroque dances from the court of Louis XIV.

DANC 378 - Jazz Dance Technique III (1-2 Credits)
Advanced-level jazz dance technique. May be repeated up to six times for credit.

DANC 380 - Movement and Dance for Musical Theatre (3 Credits)
Styles of movement and dance in musical theatre from the '20s, '30s, and '40s to modern contemporary musical theatre. Choreographing for musicals, cultural forms of dance, staging for vocal pieces.

DANC 381 - Dance History (3 Credits)
A survey of dance from ethnic and social to professional dance, from the time of the Greeks through the twentieth century.

DANC 382 - Body Conditioning/Gyrokinesis Method (2 Credits)
Body conditioning technique designed to increase strength, flexibility, and coordination, enhancing the dance students' performance ability and body awareness.

DANC 385 - Men's Ballet (1 Credit)
Study of the art of classical ballet for men with increased emphasis on facilitating skill in allegro and adagio work specific to male technique.
**Prerequisites:** 4 semesters of ballet or equivalent.

DANC 390 - Dance Studio Operation (3 Credits)
Advanced training methods and techniques in all forms of dance. Emphasis on recent research in dance curriculum and operational technique. For experienced dance teachers.

DANC 399 - Independent Study and Research (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
**Graduation with Leadership Distinction:** GLD: Research

DANC 402A - Ballet Technique IV (1-2 Credits)
Intensive fourth level of classical ballet technique. This course is for dance majors and minors. May be repeated up to six times for credit.
**Prerequisites:** DANC 302A or equivalent.

DANC 402B - Ballet Technique IV (1-2 Credits)
Intensive fourth level of classical ballet technique. This course is for non dance majors. May be repeated up to six times for credit.
**Prerequisites:** DANC 302B or equivalent.

DANC 403 - Pointe Variations for Intermediate/Advanced Ballet (1-2 Credits)
Pointe technique, an extension of ballet technique skills on pointe. Study and execution of female variations from classical repertory. May be repeated four times.

DANC 407 - West African Dance II (3 Credits)
Study of the development of West African music and dance, emphasizing cultural, social, and physical influences. Exploration of the relationship between dancer and the drummer at an intermediate level.
**Prerequisites:** DANC 307.

DANC 412A - Contemporary Dance Technique IV (1-2 Credits)
Intensive advanced level contemporary dance technique. This course is for dance majors and minors. May be repeated up to six times for credit.
**Prerequisites:** DANC 312A or equivalent.

DANC 412B - Contemporary Dance Technique IV (1-2 Credits)
Intensive advanced level contemporary dance technique. This course is for non dance majors. May be repeated up to six times for credit.
**Prerequisites:** DANC 312B or equivalent.

DANC 420 - Teaching Methods of Ballet (3 Credits)
The foundations of ballet technique are analyzed systematically. Students will learn to teach ballet technique and organize course work for all levels. Recommend students to have completed at least four semesters of ballet technique.

DANC 421 - Teaching Methods of Contemporary Dance (3 Credits)
The foundations of contemporary dance technique are analyzed systematically. Students will learn to teach contemporary dance technique and organize course work for all levels. Recommend students to have completed at least four semesters of contemporary dance technique.

DANC 440 - Pas de Deux (Partnering) (1-2 Credits)
Study of the art of classical ballet pas de deux for men and women. Special attention will include adagio work from classical ballet repertory and contemporary dance.
**Prerequisites:** DANC 302 or equivalent.

DANC 450 - Musical Theatre Workshop (2 Credits)
Intensive musical theatre training in areas of song interpretation, musical theatre, dance, voice and acting.
**Cross-listed course:** MUSC 450, THEA 450

DANC 460 - Choreography II (3 Credits)
An intermediate level choreography course to further examine choreographic construction methods.
**Prerequisites:** DANC 160 and three semesters of technique courses.

DANC 470 - Dance Education III: Dance Pedagogy for Middle and High School (4 Credits)
Intensive study of content and strategies for teaching dance in middle and high school with particular emphasis on curriculum development, instruction, and assessment. Not open to freshmen or sophomores. Minimum of 90 hours in program of study.
**Prerequisites:** DANC 270, DANC 370, five semesters of ballet, five semesters of modern dance.
**Graduation with Leadership Distinction:** GLD: Community Service
DANC 471 - Synthesis of Dance Education Constructs (pre-internship seminar) (1 Credit)
Seminar allows students to synthesize content and skills from all previous dance and education coursework in conjunction with their student teaching experience.
Corequisite: DANC 479.

DANC 475 - Inner Mastery Through Movement (3 Credits)
A mind/body integration course designed for performing artists.

DANC 476 - Production Design for Dance (3 Credits)
Technical theatre functions, the structure and purpose of production design, and stage production as it relates to the whole of dance and theatrical performance.

DANC 478 - Integrated Approaches in Dance Education (5 Credits)
Study and application of strategies for teaching diverse learners, implementation of instructional technology in the dance classroom, and dance/arts integration.
Graduation with Leadership Distinction: GLD: Community Service
Experiential Learning: Experiential Learning Opportunity

DANC 479 - Teaching Internship in Dance Education (12 Credits)
Practical demonstration of pedagogical knowledge, skill, and dispositions necessary to effectively teach in K-12 dance education as defined and measured by CAEP and ADEPT standards.
Prerequisites: Must have fulfilled all other program requirements except DANC 471 (and DANC 479), be admitted to the professional program, and approved for student teaching.
Corequisite: DANC 471.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

DANC 482 - Body Conditioning/Gyrokinesis Method II (1 Credit)
Body conditioning technique that simultaneously stretches and strengthens the body at an intermediate level. Gyrokinesis teaches complete freedom of movement through exercises synchronized with corresponding breathing patterns enhancing aerobic and cardiovascular stimulation and promoting neuromuscular awareness. Restricted to dance majors/minors only.
Prerequisites: DANC 382.

DANC 490 - Senior Capstone Dance Project (3 Credits)
Culmination of the performance/choreography dance emphasis. Senior project encompassing a choreographic work or research thesis.
Prerequisites: DANC 160 and DANC 360.
Graduation with Leadership Distinction: GLD: Research

DANC 500 - Selected Topics in Dance (1 Credit)
A series of courses, each lasting one-third of a semester. Topics and required courses are announced in the class schedule for each semester.

DANC 573 - Dancer's Workshop (1 Credit)
Individual advanced training in movement, improvisation, flexibility, and precision in dance styles including modern and ballet.
Prerequisites: graduate standing or three credits in dance.

DANC 577 - Dance Performance (3 Credits)
Rehearsal, choreographic analysis, and dance performance. All components of dance production—including music, costume, lighting, and scenery—will be considered.
Cross-listed course: PEDU 577

DANC 586 - The Articulate Body (3 Credits)
Theoretical and experimental exploration of the major body systems and development movements to bring more articulation to the body and more awareness and physical ease in performance.
Cross-listed course: THEA 586

DANC 599 - Special Topics in Dance (3 Credits)
Reading and research on selected topics. Course content varies and will be announced in the schedule of classes by title. May be repeated once as topics vary.

THEA 120 - Laboratory Theatre Production (1 Credit)
Procedures for implementation of processes involved in the Laboratory Theatre Production Program. Supervised preparation of all performance and production elements involved in the collaborative process of theatre production. Course content varies according to season production program. Permission of Instructor or by audition. May be repeated for credit.

THEA 121 - Theatre Running Crew Laboratory. (1 Credit)
Procedures and processes of running crews for the Mainstage Theatre Production Program. Collaborative teamwork through supervised participation in various theatre production running crews (management, scenic, lighting, sound, costumes and makeup). Course content varies according to season production program. May be repeated for credit.

THEA 122 - Theatre Performance Laboratory (1 Credit)
Preparation and procedures of the rehearsal and performance processes for the Mainstage Theatre Production Program. Collaborative teamwork through supervised participation in an acting company. Course content varies according to season production program. By audition only. May be repeated for credit.
Prerequisites: THEA 120.

THEA 123 - Theatre Production Studio (1 Credit)
Procedures and processes for the Mainstage Theatre Production Program. Collaborative teamwork through supervised participation in various theatre production student crews (scenic, lighting, sound, costume, makeup, and promotions). Course content varies according to season production program.
Prerequisites: THEA 121.

THEA 170 - Fundamentals of Acting (3 Credits)
Introduction to the art and craft of acting. Practical exploration through improvisation and scripted scene work. Includes a brief history of the development of modern acting techniques.
Carolina Core: AIU

THEA 172 - Basic Stage Makeup (1 Credit)
The study and application of the principles of the art of makeup for the theatre.

THEA 181 - Shakespeare in Performance (3 Credits)
Introduction to Shakespeare's works on page, stage, and screen. Emphasis placed on performances of scripts. History of Shakespeare's works/productions, stage/screen technique. Viewings of film adaptations required.
Carolina Core: AIU

THEA 200 - Understanding and Appreciation of Theatre (3 Credits)
An introduction to the understanding and appreciation of theatrical experience. Attendance at theatrical performances required.
Carolina Core: AIU
THEA 201 - Introduction to Theatre Studies (3 Credits)
Introduction to methods of analyzing and interpreting drama, with emphasis on play structure, genre, and style. Designed for the theatre major in preparation for theatre scholarship, performance, production, and design.

Graduation with Leadership Distinction: GLD: Research

THEA 221 - Stage Management Laboratory (2 Credits)
Supervised participation in theatre stage management. May be repeated once for credit.

Prerequisites: THEA 120 and THEA 121.

THEA 225 - Introduction to Stage Management (3 Credits)
An introduction to the roles of the stage manager throughout theatrical productions that include pre-production planning, oversight of the rehearsal process, running technical rehearsals and performances, and completing post-production duties.

THEA 230 - Make-up Design for Theatre and Film (3 Credits)
Theory and practice of make-up design for theatre and film. The application of analytical and research skills in the visual development of the character.

THEA 240 - Beginning Voice and Speech (3 Credits)
Study and practical application of voice and speech fundamentals in performance. Emphasis on speaking with ease, power and clarity to impact an audience.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

THEA 241 - Voice and Speech Studio (1-3 Credits)
Training in vocal skills needed by actors such as dialect, verse speaking and voice for a variety of media. Maybe repeated for credit.

Prerequisites: THEA 240.

THEA 252 - Stage Costume Construction (3 Credits)
An introductory course in the principles and practice of costume construction.

THEA 253 - Stagecraft (3 Credits)
A beginning course in the principles and practice of scenic technology.

THEA 270 - Beginning Acting (3 Credits)
An exploration of the acting process through scene study. Focus will be on developing the actor’s personal technique, emphasizing emotional truthfulness and authenticity.

Prerequisites: THEA 170 or declaration of major.

THEA 280 - Elements of Design for Theatre Production (3 Credits)
Foundational application of design principles and vocabulary as applied to the creative process in production design for theatre. Play analysis, creative and visual thinking, and graphic representation.

THEA 283 - Introduction to Theatre Sound Design (3 Credits)
Introduces the students to the basic principles of sound design and technology. Related topics include physics of sound, use and maintenance of equipment, script analysis, and creative thinking.

THEA 288 - Introduction to Stage Lighting (3 Credits)
Principles and practices of theatrical lighting design. Course not available for major credit.

THEA 340 - Literature and Performance (3 Credits)
Introduction to the study of literature through performance; reading, analysis, and performance of prose, poetry, nonfiction, and drama.

Cross-listed course: SPCH 340

THEA 359 - Theatrical Imagery (3 Credits)
The theory and application of visual imagery in theatrical design; identification and selection of historical motifs.

THEA 369 - Japanese Culture and Society through Theatre (3 Credits)
Introduction to Japanese traditional theatre and its influences on Japanese culture and society. Taught in English.

Cross-listed course: JAPA 351

THEA 370 - Intermediate Acting (3 Credits)
Development of acting skills through study of acting techniques emphasizing emotional truthfulness and authenticity. Application to scene study, monologues and auditions. Intensive script analysis for character development.

Prerequisites: THEA 170 or THEA 270.

THEA 372 - Acting from a Physical Point of View (3 Credits)
Development of physical acting skills related to modern acting techniques emphasizing emotional truthfulness and authenticity. Promoting the experience of full body awareness and expressiveness in character development and storytelling. Includes performative states of relaxation, balance and presence and ensemble work.

THEA 373 - Movement Laboratory (1 Credit)
Training in specific physical skills for actors: stage combat, mime, folk dance, tap dance, etc. Maybe be repeated for credit.

THEA 375 - Inner Mastery Thought Movement (3 Credits)
A mind/body integration course designed for performing artists.

THEA 380 - Production Design for Theatre (3 Credits)
Principles of production design in scenery, costumes, lighting and sound. Play analysis, periods styles, creative and visual thinking and graphic representation.

Prerequisites: THEA 280.

THEA 399 - Independent Study and Research (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

THEA 425 - Advanced Stage Management (3 Credits)
Delving deeper into the role of the stage manager in theatrical productions that includes problem solving, adapting to challenging situations, and distinguishing the various responsibilities of production assistants, assistant stage managers, and production stage managers and their collaborative contributions.

Prerequisites: C or better in THEA 225.

THEA 440 - Advanced Voice and Speech for the Actor. (3 Credits)
Advanced vocal techniques as applied to performance. Specific skills covered may include vocal flexibility and range, vocal dynamics, dialects, and voice-over technique.

Prerequisites: THEA 240.

THEA 442 - Accents and Dialects for the Actor (3 Credits)
Study and practical application of major accents and dialects used by actors in performance. Emphasis on acquiring the skills necessary for independent learning of an accent or dialect.

Prerequisites: C or better in THEA 240.
THEA 444 - Voice Over and Voice Acting (3 Credits)
Principles and practice of a wide range of voice-over including commercial and narrative styles. Development of character voice as applied to animation, gaming and/or other audio storytelling. Focus is on practical skills necessary for the profession.
Prerequisites: C or better in THEA 240.

THEA 450 - Musical Theatre Workshop (2 Credits)
Intensive musical theatre training in areas of song interpretation, musical theatre, dance, voice and acting.
Cross-listed course: DANC 450, MUSC 450

THEA 452 - Special Topics in Costume Technology (3 Credits)
A specialty skills course for advanced students of theatrical costume design and technology. Topics will include tailoring, fabric modification, needle arts, millinery, etc. Course may be repeated as topics vary.
Prerequisites: THEA 252.

THEA 453 - Computer Aided Drafting for Theatre (3 Credits)
Develop basic and intermediate skills in using computer aided drafting programs for theatrical designs and technical drawings.

THEA 480 - History of Cinema I (3 Credits)
Survey of the international cinema from its inception until 1945.

THEA 481 - History of Cinema II (3 Credits)
Survey of the international cinema from 1945 to the present.

THEA 489 - Introduction to Costume Design (3 Credits)
Introduction to the basic principles and elements of design as they apply to the costume designer. Script and character analysis, costume rendering, and production unity.
Prerequisites: THEA 280.

THEA 490 - Theatre Capstone Course (3 Credits)
Principles, procedures and practice of the creative and collaborative process. Aspects of the discipline with focus on creative and effective collaboration and communication skills among theatre artists, scholars and technicians. Practical and planning skills for professional success after graduation.
Prerequisites: THEA 270 and THEA 280, and 6 hours from 300 level class or above.

THEA 500 - Selected Topics in Theatre (1 Credit)
A series of courses, each lasting one-third of a semester. Topics and Prerequisites: are announced in the class schedule for each semester.

THEA 510 - Rendering Techniques for the Theatre (3 Credits)
Rendering techniques for the communication of concepts and mood in the design process.

THEA 520 - Playwright's Workshop (3 Credits)
Principles and practice of playwriting. Writing, adapting, and revising plays. May be repeated with consent of department chair.

THEA 522 - Drama in Education (3 Credits)
Comprehensive review of drama strategies, methods and pedagogical practices to be applied to non-drama learning contexts. Practical experience with the necessary skills, philosophies and techniques of drama in education.

THEA 526 - Children's Theatre (3 Credits)
Special problems in producing plays for child audiences.
Prerequisites: THEA 170 and THEA 253.

THEA 527 - Applied Theatre Arts (3 Credits)
Principles and practices of theatre-making within community contexts to address local issues and to provide aesthetic strategies for creative problem solving through theatre.

THEA 529 - Theatre Management (3 Credits)
Problems involved in organizing, administering, and promoting the non-professional theatre.

THEA 530 - Period Styles for Wig and Hair Design (3 Credits)
Research and execution of period styles for wigs, hair, and facial pieces as related to theatrical and media design.
Prerequisites: THEA 230 and THEA 550.

THEA 531 - Theatre Graphics (3 Credits)
Specialized graphic techniques used in the preparation of a theatrical production. Practice in the execution and interpretation of working drawings, perspective sketches, color renderings, scale models, etc.

THEA 540 - Voice and Movement: Practice and Performance (3 Credits)
A variety of vocal and movement techniques that apply to acting and coaching with special emphasis on the physical and vocal processes in performance.

THEA 547 - Global/Contextual Issues in Theatre Education Practice and Performance (3 Credits)
Survey and analysis of current drama teacher practice across international contexts in relationship to global, social and educational change.

THEA 550 - History of Costume (3 Credits)
A survey of clothing through the ages with emphasis on the dress of the actor in significant periods of theatrical activity. From ancient times to present day.

THEA 552 - Stage Costume Pattern Drafting and Drawing (3 Credits)
The principles of pattern making for costume construction using flat-pattern and draping techniques.

THEA 553 - Advanced Stagecraft (3 Credits)
Advanced principles and practices of stagecraft.
Prerequisites: THEA 253 or equivalent.

THEA 554 - Performing Arts Safety (3 Credits)
Study of health and safety hazards for actors, technicians, and audience members.

THEA 555 - Scene Painting for the Stage (3 Credits)
Techniques of scene painting. Application of principles of painting to the stage.

THEA 556 - Stage Design (3 Credits)
Survey of the history and principles of scene design. Assignments will involve drawings, watercolor sketches, and scale models.

THEA 557 - Advanced Scenic Design (3 Credits)
Advanced procedures and techniques of scenic design.
Prerequisites: THEA 556.

THEA 558 - Draping for the Modern Silhouette (3 Credits)
Apparel design through basic draping techniques on industry standard dress forms. Analysis of fit and design, problem solving and interaction of fabric characteristics with style features.
Prerequisites: B or better in THEA 551.

THEA 559 - Introductory Methods for K-12 Theatre Certification (3 Credits)
Developmental approaches to drama instruction in K-12 classroom settings.
Thea 561 - History of the Theatre I (3 Credits)
A survey of plays, playwrights, actors, production, and the physical development of theatres from the time of the Greeks to 1660; reading of representative plays required.

Thea 562 - History of the Theatre II (3 Credits)
A survey of plays, playwrights, actors, production, and the physical development of theatres from 1660 to the present; reading of representative plays required.

Thea 563 - History of Modern Theatre (3 Credits)
History of Western Theatre since the early 20th century. Students will be introduced to major figures, plays, and movements and explore influences from the broader culture on theatrical expression.

Thea 565 - African American Theatre (3 Credits)
The major movements, figures, plays, and critical strategies that have marked the development of African American theatre in the 19th, 20th, and 21st centuries.

Cross-listed course: AFAM 565, ENGL 565
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

Thea 567 - Dramatic Theory I (3 Credits)
A survey of the major works of dramatic theory and criticism, with emphasis on theories of theatrical performance. from Aristotle through 18th-century neo-classicism.

Thea 568 - Dramatic Theory II (3 Credits)
A survey of the major works of dramatic theory and criticism, with emphasis on theories of theatrical performance from the 18th century to the present.

Thea 569 - Dramaturgy (3 Credits)
A study of dramatic structure as it relates to theatrical production. Emphasis on script reading and analysis. Production and new-works dramaturgy will be covered.

Thea 570 - Advanced Acting I (3 Credits)
Theory and practice in the development of a role and an understanding of the psychology of the audience-actor relationship.
Prerequisites: B or better in THEA 240 and THEA 372 and THEA 370.

Thea 571 - Advanced Acting II (3 Credits)
Technique of performing play scripts with heightened language and styles other than naturalism/realism. Some examples of genres that may be taught are Classical Greek, Elizabethan, absurdist.
Prerequisites: B or better in THEA 240 and THEA 372 and THEA 370.

Thea 572 - Advanced Makeup for Theatre and Film (3 Credits)
Makeup design for specific character types, prosthetics and three-dimensional makeup effects. Special attention to the process of sculpting and modeling for makeup prosthetics.
Prerequisites: THEA 230.

Thea 575 - Rehearsal and Performance (3 Credits)
An intensive laboratory course in theatrical and media performances.

Thea 576 - Rehearsal and Performance (3 Credits)
An intensive laboratory course in repertory theatre.

Thea 577 - Special Topics in Physical Theatre (3 Credits)
Research and performance training in selected topics related to physical theatre. Course content varies and will be announced in the schedule of classes by title. May be repeated once as topics vary.

Thea 578 - Play Direction I (3 Credits)
A study of the principles, procedures and practice of stage direction, with the selection, analysis, casting, and rehearsal of a one-act play to be presented in the laboratory theatre.
Prerequisites: THEA 270, THEA 280, and 6 hours from 300 level or above.

Thea 579 - Play Direction II (3 Credits)
A continuation of THEA 578.
Prerequisites: THEA 578.

Thea 581 - Film as Performance (3 Credits)
Study and analysis of film production, performance, and aesthetics.

Thea 582 - Costume Design (3 Credits)
Theory and practice in the design of theatre costumes.

Thea 583 - Advanced Practice in Sound Design (3 Credits)
Advanced study in sound, production and design. Emphasis will be on mounting designs and refining design skills for Theatre, Music, and Media Arts students.

Thea 585 - Design for Communications Media Production (3 Credits)
The study and application of techniques in theatrical stagecraft, design, lighting, costuming, and makeup applicable to specialized fields of communication media.
Prerequisites: THEA 253, THEA 351.

Thea 586 - The Articulate Body (3 Credits)
Theoretical and experimental exploration of the major body systems and developmental movements to bring more articulation to the body and more awareness and physical ease in performance.
Cross-listed course: DANC 586

Thea 587 - Film and Television Acting (3 Credits)
Theory and practice of film and television acting.
Prerequisites: THEA 170.

Thea 588 - Stage Light Design I (3 Credits)
The interrelationship of stage lighting and other production elements. Design techniques, equipment, and script analysis. Laboratory work on department productions. Restricted to theatre majors or those having special permission of instructor.

Thea 589 - Adv. Stage Lighting Des. II (3 Credits)
Stage lighting equipment and design techniques. Laboratory work on departmental productions.

Thea 599 - Special Topics in Theatre (3 Credits)
Reading and research on selected topics. Course content varies and will be announced in the schedule of classes by title. May be repeated once as topics vary.

**Dance Minor**

**Minor Requirements (18 Hours)**
The dance minor consists of completion of 18 credit hours with courses selected from each section below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dance Technique Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6-9 hours of dance technique courses with at least 3 credits in 200-level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANC 102A</td>
<td>Ballet Technique I</td>
<td></td>
</tr>
<tr>
<td>DANC 112A</td>
<td>Contemporary Dance Technique I</td>
<td></td>
</tr>
<tr>
<td>DANC 170</td>
<td>Ballroom Dance I</td>
<td></td>
</tr>
</tbody>
</table>
DANC 171  Ballroom Dance II
DANC 178  Jazz Dance Technique I
DANC 202A  Ballet Technique II
DANC 204  Pointe II
DANC 212A  Contemporary Dance Technique II
DANC 278  Jazz Dance Technique II
DANC 302A  Ballet Technique III
DANC 303  Pointe III
DANC 304  Intermediate Tap Dance
DANC 307  West African Dance I
DANC 312A  Contemporary Dance Technique III
DANC 378  Jazz Dance Technique III
DANC 380  Movement and Dance for Musical Theatre
DANC 385  Men's Ballet
DANC 402A  Ballet Technique IV
DANC 403  Pointe Technique for Intermediate/Advanced Ballet
DANC 407  West African Dance II
DANC 412A  Contemporary Dance Technique IV

Performance and Choreography  3-6
DANC 160A  Dance Improvisation and Composition
DANC 177  Dance Company I
DANC 360  Choreography I
DANC 577  Dance Performance

Theoretical Studies in Dance  3-9
History, Culture, and Criticism
DANC 101  Dance Appreciation
DANC 111A  World Dance I
DANC 113A  World Dance II
DANC 150  Introduction to Dance
DANC 281  Dance History I
DANC 282  Dance History II
DANC 310  Dance Analysis and Criticism
DANC 377  Historic Dance
DANC 381  Dance History
Dance Practice and Pedagogy
DANC 270  Dance Education I: Introduction to Dance Education
DANC 300  Music for Dancers
DANC 370  Dance Education II: Creative Dance
DANC 390  Dance Studio Operation
DANC 420  Teaching Methods of Ballet
DANC 421  Teaching Methods of Contemporary Dance
DANC 476  Production Design for Dance

Somatic Practices
DANC 103  The Dancer's Body
DANC 260  Laban Movement Analysis
DANC 275  Pilates I
DANC 375  Pilates II
DANC 382  Body Conditioning/Gyrokinesis Method
DANC 475  Inner Mastery Through Movement
DANC 482  Body Conditioning/Gyrokinesis Method II

DANC 586  The Articulate Body

Total Credit Hours  12-24

Dance, B.A.

The Bachelor of Arts with a major in Dance offers two concentrations:
1. Performance and Choreography with focuses in ballet or contemporary dance and
2. Dance Education K-12.

The performance and choreography focus in classical ballet requires 8 ballet techniques and 4 contemporary techniques classes. The contemporary dance focus requires 6 contemporary techniques, 4 ballet techniques and 2 techniques of other forms of dance. Academic coursework such as choreography, dance history, and theory courses are also included in the major requirements for a degree in dance. Dance performances include full-length ballet productions, classical repertory and contemporary works.

Learning Outcomes

• Dance majors will demonstrate an advanced level of technical proficiency in ballet and or contemporary dance. Dance majors in Performance as well as Dance Education must achieve level three by graduation.
• Students will be able to write about dance in an educated manner and use critical approaches to evaluate dance.
• Students will describe the principles and theories of dance artists, their theories and choreographic strengths and also the material that pertains to history and cultural dance.
• Students will be able to verbally articulate the principles and theories of dance artists and their significance in terms of history and cultural dance.

Progression Requirements
1. At the end of each semester, dance majors will be evaluated for proficiency and progression to the next level of dance technique based on rubrics and syllabi. To graduate, students must complete DANC 302 and DANC 312.
2. All dance majors with an emphasis in dance education must fulfill admission requirements for the Professional Education Program and Internship.
3. To remain in the dance major, a student must make satisfactory progress towards a degree. A student who fails to make satisfactory progress may be placed on academic probation or removed from the college.

Admissions

Entrance Requirements
New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:
1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Additional Admission Requirements

1. Entering freshmen and transfer students must meet University admissions requirements and academic standards.
2. Initial acceptance into the dance major is dependent upon a qualifying dance audition in ballet and contemporary dance.
3. Dance majors are encouraged to complete all four years at UofSC, Columbia campus, due to the rigorous and ongoing nature of the technical proficiency, as well as company requirements. If a student chooses to transfer into the dance major, additional coursework may be necessary to remedy deficiencies.
4. Students who wish to enter the program from another major on the Columbia campus or from another UofSC campus must be in good standing and have a cumulative GPA of 2.00 or higher.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>0-41</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>32-70</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
  or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved
course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)

- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (3 hours of Social Science)

The following must be passed with a grade of C or higher (C+ or higher for Dance Education K-12 Certification):

- DANC 150
- DANC 281
- DANC 282

3. Program Requirements (0-41 hours)

Cognate or Minor (12-18 hours) optional for Dance Education K-12 Certification Concentration

Cognate

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences (p. 303).

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Arts degrees, all cognate courses must be passed with a grade of C or higher.

Minor

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or higher. At least half of the courses in the minor must be completed in residence at the University.

A list of minor programs of study can be found at Programs A-Z (p. 10).

Electives (0-29 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

4. Major Requirements (32-70 hours)

A minimum grade of C is required in all major courses. (C+ or higher for Dance Education K-12 Certification)

Choose one of the following concentrations:

Performance and Choreography (32 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 103</td>
<td>The Dancer's Body</td>
<td>3</td>
</tr>
<tr>
<td>DANC 160A</td>
<td>Dance Improvisation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>DANC 360</td>
<td>Choreography I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 490</td>
<td>Senior Capstone Dance Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Techniques

Select either Ballet or Contemporary Dance: 15-24 credits

Ballet:

- Eight ballet techniques
- Four contemporary techniques

Contemporary:

- Six contemporary techniques
- Four ballet techniques
- Two techniques of other forms of dance

Dance Company

DANC 177 Dance Company I 5 credits

Total Credit Hours 32-41

Note: Students must meet both the number of credits and distribution of technique requirements listed. Some techniques courses are variable credit. To graduate with a major in dance, students must successfully complete DANC 302A and DANC 312A. Students may take up to 24 hours of techniques courses toward the major.

Dance Education K-12 Certification (70 hours)

Dance majors with an emphasis in Dance Education K-12 teacher certification must meet USC and South Carolina Department of Education requirements in order to be recommended for certification (includes passing state-required examinations). An application for certification is required. Contact the College of Education, Office of Student Affairs, 803-777-6732.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DANC 103</td>
<td>The Dancer's Body</td>
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</tr>
<tr>
<td>DANC 160A</td>
<td>Dance Improvisation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>DANC 300</td>
<td>Music for Dancers</td>
<td>3</td>
</tr>
<tr>
<td>DANC 360</td>
<td>Choreography I</td>
<td>3</td>
</tr>
</tbody>
</table>

Techniques

The following courses must be taken 4 times each:
DANC 202A  Ballet Technique II  1-2
DANC 302A  Ballet Technique III  1-2
DANC 402A  Ballet Technique IV  1-2

The following courses must be taken 4 times each.
DANC 212A  Contemporary Dance Technique II  1-2
DANC 312A  Contemporary Dance Technique III  1-2
DANC 412A  Contemporary Dance Technique IV  1-2

Select two hours of the following world dance forms courses:
DANC 111A  World Dance I
or DANC 113A World Dance II
DANC 307  West African Dance I
or DANC 407 West African Dance II
DANC 380  Movement and Dance for Musical Theatre  3

Dance Company
DANC 177  Dance Company I  3

Professional Education
DANC 270  Dance Education I: Introduction to Dance Education  2
DANC 370  Dance Education II: Creative Dance  3
DANC 470  Dance Education III: Dance Pedagogy for Middle and High School  4
DANC 471  Synthesis of Dance Education Constructs (pre-internship seminar)  1
DANC 478  Integrated Approaches in Dance Education  5
DANC 479  Teaching Internship in Dance Education  12

Education Courses
EDFI 300  Schools in Communities  3
EDPY 401  Learners and the Diversity of Learning  3
PEDU 515  Physical Education for Inclusion  3
or EDEX 523  Introduction to Exceptional Children
EDRD 500  Content Area Literacy PK-12  3

Notes:
• Students must successfully complete DANC 302A and DANC 312A with a C+ or better.
• Ballet and contemporary technique courses are variable credit.
• Students must meet both the number of credits and distribution of technique requirements listed above.

Professional Education Program Requirements
The dance major with an emphasis in dance education supports prospective teachers in developing both in-depth content knowledge and appropriate knowledge, skills, and dispositions of teaching required in today's classrooms.

Extensive clinical experiences in a variety of appropriate K-12 classrooms and schools are a central component of the program.

Application and admission to the Professional Program in Education (typically at 60 credit hours) and admission to Internship are required for all majors seeking teacher certification. All teacher education candidates must adhere to all education policies and procedures related to clinical experiences. Information on education applications, policies, and procedures is available from the College of Education, Advising and Student Services office at 803-777-6732.

Specific requirements in dance education for Admission to Internship II/
Student Teaching include the following:
1. Admission to the Professional Program.
2. Maintenance of minimum collegiate summary grade point average as required for admission to the Professional Program.
3. Successful Completion of DANC 270, DANC 370, DANC 470, and DANC 478; all courses within the dance major and all performance practicum requirements.
4. A grade of C+ or better in all dance, dance education and education courses.
5. Successful completion of 100 practicum hours completed during the dance education coursework.
6. Satisfactory performance in the area of teacher education dispositions.
7. SLED clearance through fingerprinting and background check requirements.
8. Successful completion of the application for student teaching.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Dance, B.A. Performance and Choreography Concentration
Dance, B.A. Dance Education K-12 Certification Concentration

Theatre Minor
Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 200</td>
<td>Understanding and Appreciation of Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEA 201</td>
<td>or THEA 201 Introduction to Theatre Studies</td>
<td></td>
</tr>
<tr>
<td>THEA 170</td>
<td>Fundamentals of Acting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 270</td>
<td>or THEA 270 Beginning Acting</td>
<td></td>
</tr>
<tr>
<td>THEA 253</td>
<td>Stagecraft</td>
<td></td>
</tr>
<tr>
<td>THEA 280</td>
<td>or THEA 280 Elements of Design for Theatre Production</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select three hours of THEA 200 or above 3
Select six hours of THEA 300 or above 6

Total Credit Hours 18

Theatre, B.A.

Learning Outcomes
• Students will develop the ability to think critically by producing text analysis of playscripts as well as written critiques of department productions. They will demonstrate skills in preparing text analysis from the various viewpoints of all theatre collaborators.
• Students will demonstrate an understanding of the collaborative process as an important aspect of the artistic process in theatrical performances.
• Students will develop an artistic process by demonstrating the knowledge, vocabulary, and application of training and skills presented in classroom production projects and/or departmental theatre productions.
• Students will demonstrate a general knowledge of significant developments in the history of western theatre and drama through the investigation of plays, playwrights, actors, productions, and the physical development of theatres from the time of the Ancient Greeks to the present.
• Students will develop the ability to think critically by producing text analysis of playscripts as well as written critiques of department productions. They will demonstrate skills in preparing text analysis from the various viewpoints of all theatre collaborators.
• Students will demonstrate an understanding of the collaborative process as an important aspect of the artistic process in theatrical performances.
• Students will develop an artistic process by demonstrating the knowledge vocabulary and application of training and skills presented in classroom production projects and/or departmental theatre productions.
• Students will demonstrate a general knowledge of significant developments in the history of western theatre and drama through the investigation of plays playwrights actors productions and the physical development of theatres from the time of the Ancient Greeks to the present.
• Students will develop the ability to think critically by producing text analysis of playscripts as well as written critiques of department productions. They will demonstrate skills in preparing text analysis from the various viewpoints of all theatre collaborators.
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• Students will demonstrate a general knowledge of significant developments in the history of western theatre and drama through the investigation of plays playwrights actors productions and the physical development of theatres from the time of the Ancient Greeks to the present.

Admissions

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to degree programs offered by the college. A student who wishes to enter the College of Arts and Sciences from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.00 or higher. A student who wishes to enter the College of Arts and Sciences from another UofSC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.00 or higher.

2. Be in good standing and have completed 30 semester hours with a GPA of 2.00 or higher on a UofSC campus.

Some programs in the College of Arts and Sciences have special admission requirements established by the department or committee that supervises the specific degree program, for example, Cardiovascular Technology, Biological Sciences, Chemistry, Biochemistry and Molecular Biology, Economics, Environmental Science, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. These requirements are listed in the sections of this bulletin that describe department and special degree programs.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
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<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>15-18</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>27-42</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>31</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW course (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP course (p. 743)

SCI – Scientific Literacy (8 hours)

• two 4-credit hour CC-SCI laboratory science courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• any CC-GSS course (p. 743)
2. College Requirements (15-18 hours)

Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)
The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement. Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (p. 743) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

Social Science and Fine Arts or Humanities (12 hours)
- Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (p. 305) (3 hours of Social Science and 6 hours of Fine Arts or Humanities)
- THEA 201

3. Program Requirements (27-42 hours)

Supporting Courses (6 hours)
- Select 6 hours of dramatic literature from ENGL 300 or above (may apply towards fulfillment of the cognate)

4. Major Requirements (31 hours)

A minimum grade of C is required in all major courses.
The Women's and Gender Studies Program at the University of South Carolina promotes an understanding of the experiences of women and other underrepresented groups through a complete program of teaching, research, and service required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

### Major Courses (19 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 270</td>
<td>Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 280</td>
<td>Elements of Design for Theatre Production</td>
<td>3</td>
</tr>
<tr>
<td>THEA 561</td>
<td>History of the Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 562</td>
<td>History of the Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>THEA 490</td>
<td>Theatre Capstone Course</td>
<td>3</td>
</tr>
<tr>
<td>or THEA 578</td>
<td>Play Direction I</td>
<td></td>
</tr>
<tr>
<td>THEA 120</td>
<td>Laboratory Theatre Production</td>
<td>1</td>
</tr>
<tr>
<td>THEA 121</td>
<td>Theatre Running Crew Laboratory.</td>
<td>1</td>
</tr>
<tr>
<td>THEA 122</td>
<td>Theatre Performance Laboratory</td>
<td></td>
</tr>
<tr>
<td>THEA 123</td>
<td>Theatre Production Studio</td>
<td></td>
</tr>
<tr>
<td>THEA 221</td>
<td>Stage Management Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours:** 19

1. All Theatre lab courses may be repeated for credit. THEA 120 and THEA 121 are required Laboratory credits. THEA 120 must be completed within the first year of declaring the Theatre major.

### Major Electives (12 hours)

- Select 6 hours from THEA 200-300 level
- Select 6 hours from THEA 400 level or above

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

### Theatre, B.A.

#### Women’s and Gender Studies

Department Website (http://artsandsciences.sc.edu/wgst/)

Carla A. Pfeffer, *Director*

The Women’s and Gender Studies Program at the University of South Carolina promotes an understanding of the experiences of women and other underrepresented groups through a complete program of teaching, research, and service to the University, the local community, the state, the nation and the global community. Through its research mission, the program reconceptualizes knowledge, creates new knowledge, and reinterprets existing knowledge through the lens of gender and the prism of diversity. Its teaching mission is to share this knowledge with students so that they learn to think critically, to communicate effectively, to solve problems, and to interpret human experience. Emerging from an activist tradition, the program serves University, local, state, national and global communities by acting as a resource and guide for issues related to women and gender. Our research, teaching, and service missions interweave as we create, share, and apply the knowledge, skills, and values that promote the full participation of women and other underrepresented groups in society.

There are two introductory courses: WGST 112 and WGST 113. Students in the College of Arts and Sciences and the School of Music may apply WGST 112 for social science general education requirements. WGST 112 may be counted for elective credit in the Moore School of Business, the School of Journalism and Mass Communications, and the College of Nursing.

#### Women’s and Gender Studies Minor

Students may minor in women’s and gender studies by completing 18 hours of specified courses.

### Bachelor of Arts in Women’s and Gender Studies

A student may also pursue a major in the field through the Bachelor of Arts degree with a major in women’s and gender studies.

Further information may be obtained from the College of Arts and Sciences or the Women’s and Gender Studies.

#### Courses

**WGST 112 - Introduction to Women’s and Gender Studies (3 Credits)**
A social science perspective of women in psychological, sociological, historical, anthropological, economic, and political contexts; the changing roles, images, and institutions.

**Carolina Core:** GSS, VSR

**Graduation with Leadership Distinction:** GLD: Community Service, GLD: Diversity and Social Advocacy

**WGST 113 - Women’s Health (3 Credits)**
Basic functioning of the female body; effects of society on processes of health and disease. Not for natural sciences credit.

**Carolina Core:** GSS

**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

**WGST 207 - Gender and Culture (3 Credits)**
Anthropological study of gender, with emphasis on cross-cultural investigation of the interaction of biological, cultural, and environmental factors including intersections of race, social class, and sexuality as influences gender behavior.

**Cross-listed course:** ANTH 207

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

**WGST 210 - Human Life Cycles in Different Cultures (3 Credits)**
Childhood, maturity, old age, and gender socialization within the family.

**Cross-listed course:** ANTH 210

**Carolina Core:** GSS

**Graduation with Leadership Distinction:** GLD: Community Service, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

**WGST 298 - Issues in Women’s and Gender Studies (1-3 Credits)**
Course content varies and will be announced in the schedule of courses by title. May be repeated as content varies by title.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences
WGST 299 - Women's and Gender Studies Internship for Non-Majors (3 Credits)
Supervised experience addressing a community organization's needs and allowing the student to explore an aspect of the community related to women's and gender studies issues. Contract approval by advisor required.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 300 - Sex and Gender (3 Credits)
Offers a sociological lens to develop critical ways of thinking about sex and gender as social processes in everyday lives. This course considers how sex and gender shape and affect the experiences of women, men, girls, boys, and individuals who live in the spaces in-between (those who are intersex or transgender) across a wide range of social institutions (family, work, education, politics, etc.).
Prerequisites: SOCY 101.
Cross-listed course: SOCY 301
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 301 - Psychology of Marriage (3 Credits)
The psychological, physiological, and social characteristics of marriage.
Cross-listed course: PSYC 301
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 304 - Race, Class, Gender, and Sexuality (3 Credits)
Historical and contemporary power relationships in race, social class, gender, and sexual orientation.
Cross-listed course: POLI 305, SOCY 304
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 305 - Sociology of Families (3 Credits)
Sociological perspectives related to various aspects of family behaviors, roles, and values.
Cross-listed course: SOCY 305
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 306 - Social Welfare Services for Women and Minorities (3 Credits)
Social welfare services available to women and minorities and the forces that shape these services.
Cross-listed course: SOWK 305
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 307 - Feminist Theory (3 Credits)
Historical development of feminist theory and contemporary debates within feminism.
Cross-listed course: POLI 307
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 308 - African-American Feminist Theory (3 Credits)
An interdisciplinary survey of the contributions of African-American women to feminist theory.
Cross-listed course: AFAM 308
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 309 - Sexual Diversities (3 Credits)
Introduction and overview of theories, history, literature, politics, legal, health and social issues within human sexual diversities, including the intersections of gender, race, and social class.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 310 - Psychology of Women (3 Credits)
Women's experiences: childhood and adolescence, work, family, cultural images, adjustment and social change.
Cross-listed course: PSYC 310
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 311 - Minorities, Women, and the Mass Media (3 Credits)
The study of the relationship among persons of color, women, and the mass media.
Cross-listed course: JOUR 311
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 320 - Sexuality and Gender in Ancient Greece (3 Credits)
Gender roles, standards of sexual behavior, evidence for women's lives, as manifested in ancient Greek literary and archaeological evidence; attitudes toward homosexuality; the modern media's representation of famous Greeks.
Cross-listed course: CLAS 320
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 321 - Sexuality, Gender, and Power in Ancient Rome (3 Credits)
Sexuality as a social construct exemplified in standards of sexual behavior in ancient Rome and their reinforcement of the ruling ideology; feminine virtue, definitions of manliness, attitudes toward homosexuality.
Cross-listed course: CLAS 321
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 333 - Sex, Gender, and Religion (3 Credits)
Gender and sexuality in the shaping of social and individual identity in religious contexts.
Cross-listed course: RELG 333
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 334 - Feminist Philosophy (3 Credits)
Introduces feminist philosophy and applications to philosophical problems.
Cross-listed course: PHIL 334
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
WGST 335 - Women in China (3 Credits)
Introduces the connection between gender and the Chinese national imagination. Readings include cultural and historical documents that purport to explain the experience of women in China. Readings in English. Taught in English.
**Cross-listed course:** CHIN 335
**Graduation with Leadership Distinction:** GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

WGST 351 - The Family in Cross-Cultural Perspective (3 Credits)
Kinship, systems of descent, marriage, and domestic organization in different cultures. Variations in childrearing practices, gender, and other aspects of social relations in kin groups. Cross-listed Course: ANTH 351
**Cross-listed course:** ANTH 351
**Graduation with Leadership Distinction:** GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

WGST 352 - Gender and Politics (3 Credits)
Impact of gender on the distribution of power in society; foundations for intersections of gender, race, social class, and sexuality and their economic, social, and political concomitants.
**Cross-listed course:** POLI 352
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 376 - Holy Women (3 Credits)
Holy women from various periods and religious traditions, and how they demonstrate the different ways communities understand ideals of holiness, from piety, martyrdom, monasticism and mysticism to social action.
**Cross-listed course:** RELG 376
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

WGST 379 - Women in Modern Europe (3 Credits)
Survey of women in European history from the eighteenth to the twenty-first century. Focus on women's citizenship beginning with Enlightenment idea of rights through developments in modern feminism.
**Cross-listed course:** HIST 379
**Graduation with Leadership Distinction:** GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

WGST 381 - Gender and Globalization (3 Credits)
Examines the dialectic between globalization and the social construction of gender. Topics include the global assembly line, transnational markets for domestic labor and sex workers, and global feminist alliances.
**Prerequisites:** WGST 111 or WGST 112 or ANTH 102.
**Cross-listed course:** ANTH 381
**Graduation with Leadership Distinction:** GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

WGST 388 - Cultures, Pregnancy, and Birth (3 Credits)
Anthropological study of pregnancy and birth with a cross-cultural focus comparing the United States to other nations. Examination of cultural factors such as prenatal care, dietary practices, taboos, birth location, practitioners, and birthing styles.
**Cross-listed course:** ANTH 388
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

WGST 392 - Global Women's Health (3 Credits)
This course examines health concerns important in the lives of women around the world through an overview of contemporary issues and challenges in the field of global health, broadly construed.
**Cross-listed course:** ANTH 392
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

WGST 399 - Independent Study (3 Credits)
Contract approved by instructor, advisor, and director of women's studies required for undergraduate students.
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

WGST 400 - Topics in Women's Studies (1-3 Credits)
Course content varies and will be announced in the schedule of courses by title. May be repeated as content varies by title.
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

WGST 430 - Topics in Women's Studies Workshop (1 Credit)
Selected small action-research project on selected issue(s) in women's studies.
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

WGST 432 - Men and Masculinities (3 Credits)
Overview of psychological, social, physical, and emotional issues related to men's lives.
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

WGST 433 - Women Writers (3 Credits)
Representative works written by women.
**Prerequisites:** C or higher in both ENGL 101 and ENGL 102.
**Cross-listed course:** ENGL 433
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

WGST 445 - LGBTQ+ Literature (3 Credits)
This course will examine LGBTQ+ (lesbian, gay, bisexual, trans, queer, and other nonnormative sexual identities) literatures and cultures.
**Prerequisites:** C or better in ENGL 101 and ENGL 102.

WGST 454 - Women and the Law (3 Credits)
Constitutional and statutory case law dealing with gender equality issues. Topics include abortion, affirmative action, pornography, sexual harassment, fetal protection policies, employment discrimination, and women in the military.
**Cross-listed course:** POLI 454
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
WGST 464 - History of American Women (3 Credits)
The social, political, and economic roles and changing status of women in America.
Cross-listed course: HIST 464
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 485 - Women's Rhetoric (3 Credits)
Study of rhetoric by and about women as manifested in speeches, essays, and other rhetorical artifacts.
Cross-listed course: ENGL 485, SPCH 485
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 487 - Black Women Writers (3 Credits)
An examination of literature by and about black women, including fiction, poetry, drama, and autobiography. This study will focus on issues that emerge from the creative representations of black women and the intersections of race, gender, sexuality, and class that interrogate what is both particular and universal experiences.
Prerequisites: ENGL 101; ENGL 102.
Cross-listed course: AFAM 487, ENGL 487
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 499 - Community Service Internship (3 Credits)
Supervised experience addressing a community organization's needs and allowing the student to explore an aspect of the community related to women's studies issues. Contract approval by advisor required.
Prerequisites: WGST 111, WGST 112 or WGST 113, plus one additional WGST course.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

WGST 515 - Race, Gender, and Graphic Novels (3 Credits)
Representations of race and gender in comics with a special emphasis on the experiences of African Americans.
Cross-listed course: AFAM 515
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 525 - The Psychology of the Midlife Woman (3 Credits)
Biological, social, and psychological aspects of the midlife woman.
Cross-listed course: PSYC 525
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 535 - Ecofeminism (3 Credits)
An exploration of the connections between oppression of women and oppression of nature.
Prerequisites: 3 hours in philosophy beyond the 100 level.
Cross-listed course: PHIL 535
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 541 - Issues in Women's Health (3 Credits)
An exploration of women's health and health care concerns from multiple perspectives.
Cross-listed course: NURS 541
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 551 - Adolescent Mentoring (3 Credits)
Application of skills and theories of adolescent mentoring taught in the classroom to a supervised, structured mentoring field experience.
Cross-listed course: CRJU 551

WGST 554 - Women and Crime (3 Credits)
Impact of gender-based relations on crime and the criminal justice system.
Cross-listed course: CRJU 554
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

WGST 555 - Language and Gender (3 Credits)
Approaches to gender and language emphasizing the social grounding of both; how language reflects sociocultural values and is a tool for constructing different types of social organization.
Cross-listed course: ANTH 555, LING 541
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 598 - Special Topics in Women's & Gender Studies (3 Credits)
Course content varies and will be announced in the schedule of courses by title. May be repeated as content varies by title.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 621 - Maternal and Child Health (3 Credits)
Public health issues, social and behavioral science, policies, programs, and services related to maternal and child health in the United States and other countries.
Cross-listed course: HPEB 621
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences

Accounting (ACCT): all numbered 300 and above
Aerospace Studies (AERO): all numbered 300 and above
African American Studies (AFAM): all
Anthropology (ANTH): all numbered 200 and above
Arabic (ARAB): all numbered 300 and above
Army/Military Science (ARMY): all numbered 300 and above
Art Education (ARTE): all numbered 300 and above
Art History (ARTH): all numbered 300 and above
Art Studio (ARTS): all numbered 200 and above
Astronomy (ASTR): all numbered 300 and above
Biological Sciences (BIOL): all numbered 300 and above
Chemistry (CHEM): all numbered 321 and above
Chinese (CHIN): all numbered 300 and above
Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences

Classics (CLAS): all
Communication Sciences and Disorders: all numbered 300 and above
Comparative Literature (CPLT): all numbered 300 and above
Computer Science (CSCE): all numbered 145 and above
Criminology and Criminal Justice (CRJU): all numbered 311 and above
Dance (DANC): all numbered 300 and above
Economics (ECON): all numbered 300 and above
Education (EDCE, EDEC, EDEL, EDET, EDEX, EDFN, EDML, EDPY, EDRD, EDRM, EDSE, EDTE, PEDU): all numbered 300 and above except directed teaching courses and seminars
Engineering (BMEN, ECHE, ECIV, ELCT, EMCH, ENCP): all numbered 200 and above
English (ENGL): all numbered 300 and above
Environment and Sustainability (ENVR): all numbered 231 and above
European Studies (EURO): all numbered 300 and above
Exercise Science (EXSC): all numbered 300 and above
Film and Media Studies (FAMS): all numbered 200 and above
Finance (FINA): all numbered 300 and above
Foreign Language (FORL): all numbered 300 and above except directed teaching courses and seminars
French (FREN): all numbered 300 and above
Geography (GEOG): all numbered 200 and above
Geology (GEOL): all numbered 202 and above
German (GERM): all numbered 300 and above
Greek (GREK): all numbered 300 and above
Health Promotion, Education and Behavior (HPEB): all numbered 300 and above except HPEB 335
History (HIST): all numbered 300 and above
Hotel, Restaurant, and Tourism Management (HRTM): all numbered 300 and above
Integrated Information Technology (ITEC): all numbered 300 and above
International Business (IBUS): all numbered 300 and above
Italian (ITAL): all numbered 300 and above
Japanese (JAPA): all numbered 300 and above
Jewish Studies (JSTU): all numbered 300 and above
Journalism (JOUR): all numbered 300 and above
Latin (LATN): all numbered 300 and above
Latin American Studies (LASP): all
Library and Information Science (SLIS): all numbered 300 and above
Linguistics (LING): all numbered 300 and above
Management (MGMT): all numbered 371 and above except MGMT 499
Management Science (MGSC): all numbered 300 and above except MGSC 498
Marine Science (MSCI): all numbered 215 and above
Marketing (MKTG): all numbered 300 and above
Mathematics (MATH): all numbered 241 and above except MATH 401
Media Arts (MART): all numbered 200 and above
Music (MUSC): MUSC 115, MUSC 116, MUSC 145 and all numbered 200 and above
Naval Science (NAVF): all numbered 300 and above
Nursing (NURS): all numbered 200 and above
Physiology (PHYS): all numbered 212 and above
Political Science (POLI): all numbered 300 and above
Portuguese (PORT): all numbered 300 and above
Psychology (PSYC): all numbered 300 and above
Religious Studies (RELG): all numbered 300 and above
Retailing (RELT): all numbered 300 and above
Russian (RUSS): all numbered 300 and above
SC Honors College (SCHC): pending advisor approval
Social Work (SOWK): all numbered 300 and above
Sociology (SOCY): all numbered 300 and above
Southern Studies (SOST): all numbered 300 and above
Spanish (SPAN): all numbered 300 and above
Speech (SPCH): all numbered 200 and above
Sport and Entertainment Management (SPTE): all numbered 300 and above
Statistics (STAT): all numbered 300 and above
Theatre (THEA): all numbered 230 and above
Women's and Gender Studies (WGST): all numbered 300 and above
Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences

Select the appropriate number of hours from each category below:

Social Science (3 hours)
Some courses listed below are cross-listed in other departments.

- AFAM 201
- ANTH (excluding ANTH 161)
- COLA
- CRJU (excluding CRJU 202, CRJU 399, CRJU 494)
- ECON
- GEOG (excluding GEOG 105, GEOG 201, GEOG 202)
- LASP (LASP 301, LASP 311, LASP 315, LASP 322, LASP 325, LASP 351, LASP 398, LASP 425, LASP 451 only)
- LING (LING 101, LING 300, LING 340, LING 405, LING 442, LING 505, LING 540, LING 541, LING 542, LING 543, LING 545, LING 567, LING 570, LING 600 only)
- POLI
- PSYC (excluding PSYC 226, PSYC 227, PSYC 228)
- RELG 101
- SOCY (excluding SOCY 220)
- SOST (SOST 298, SOST 299, SOST 301, SOST 302, SOST 305, SOST 405)
- WGST (WGST 307, WGST 308, WGST 320, WGST 321, WGST 376, WGST 379, WGST 437, WGST 464, WGST 485, WGST 535 only)

Fine Arts or Humanities (3 hours for BS degrees; 9 hours for BA degrees)
Some courses listed below are cross-listed in other departments.

- AFAM (excluding AFAM 201, AFAM 330, AFAM 353, AFAM 355, AFAM 364, AFAM 366, AFAM 402, AFAM 580)
- ARTS
- ARTE (excluding ARTE 565, ARTE 595)
- ARTH
- CLAS
- CPLT
- DANC (excluding DANC 177, DANC 577, and any one or two-credit course)
- ENGL
- EURO
- FAMS
- ARAB, CHIN, FREN, GERM, GREK, ITAL, JAPA, LATN, PORT, RUSS, SPAN, (excluding 100-levels, 315)
- HIST
- LASP (LASP 201, LASP 301, LASP 341, LASP 342, LASP 361, LASP 371, LASP 398, LASP 441, LASP 442, LASP 471, LASP 501, LASP 541 only)
Degree Programs


Progression and Retention Requirements

The requirements stated below are minimum requirements and are subject to change.

First Year Progression

To progress after the first year of admission, a student must have a minimum cumulative Institution GPA of 3.00 on a minimum of 24 hours. The 24 hours must include ENGL 101 and ENGL 102, MATH 122 or MATH 141, MGSC 290, either ECON 221 or ECON 222, STAT 206, and ACCT 225 with a minimum grade of C in each of these courses. Students have fall, spring, and the following summer terms to meet progression requirements. A student not meeting these requirements must transfer out of the Moore School of Business. Students not meeting progression requirements may choose to transfer to another major or will be automatically transferred to Undergraduate Studies under the University Advising Center.

Upperclassmen Retention Requirements

All students are reviewed annually at the end of each summer term for meeting retention requirements. Students must maintain a minimum cumulative Institution GPA of 2.800. Students not meeting this retention requirement must transfer out of the Moore School of Business. Students not meeting upperclass retention requirements may choose to transfer to another major or will be automatically transferred to Undergraduate Studies under the University Advising Center. Students entering their final year and/or are within 30 hours of graduation must have a minimum 2.800 cumulative Institution GPA to graduate. A student will not be permitted to take major courses until first-year progression and 200-level business prerequisite courses have been successfully completed with a minimum grade of C in each course. This coursework includes ENGL 101 and ENGL 102, MATH 122 or

MATH 141, STAT 206, ECON 221 and ECON 222, ACCT 225 and ACCT 226, and MGSC 290 and MGSC 291.

All majors in the Moore School of Business must earn a minimum grade of C in all business and economics courses to count toward graduation requirements. Students must petition to take any business or economics class for a third time. Petitioning does not guarantee permission and based on academic record, some students may be required to change majors or transfer out of the business school.

CLEP Subject Examinations

Students who wish to obtain credit for certain business administration courses may do so as follows:

- ACCT 225: CLEP Subject Examination titled “Financial Accounting” with a score of 90% or higher available from the testing service.
- ACCT 324: CLEP Subject Examination titled “Introductory Business Law” with a score of 90% or higher available from the testing service.
- MGMT 371: CLEP Subject Examination titled “Principles of Management” with a score of 90% or higher available from the testing service.
- MKTG 350: CLEP Subject Examination titled “Principles of Marketing” with a score of 90% or higher available from the testing service.

Dual Degrees

Currently enrolled students from other UofSC colleges who expect to obtain a second baccalaureate degree from the Moore School of Business must meet regular admission and progression requirements of the school and formally apply and be accepted by the school prior to obtaining 75 hours.

Classes

Enrollment priority will be given to business majors who are in good academic standing in all business and economics classes.

Suspension

The Moore School of Business adheres to the University's general policy on suspension.

Graduation

All students admitted to the Moore School of Business effective Fall 2016 and thereafter must have a minimum cumulative GPA of 2.80 on all UofSC work attempted in order to obtain a degree from the Moore School of Business.

Attendance Requirements

Students are expected to attend all regular class meetings. Students must conform to University attendance regulations as stated in the section entitled “Academic Regulations.” Where specific faculty policies regarding attendance are more stringent, they will be stated in writing for individual courses.
Accounting, B.S.B.A.

Learning Outcomes
- Our graduates will be able to apply generally accepted financial reporting principles in a broad range of business transactions.
- Our graduates will understand techniques used in determining costs, preparing budgets, and measuring the performance of a business unit.
- Our graduates will understand the regulatory framework that governs financial reporting and auditing in the United States.
- Our graduates will understand the ethical dilemmas faced by accountants and how to respond to such dilemmas based on regulatory guidance.
- Our graduates will understand the accounting issues associated with international business activities.
- Our graduates will understand how technology is used in current organizational environments, especially as it concerns business decisions using accounting information systems.

Admissions

Entrance Requirements
In addition to the academic admission requirements of the Moore School of Business stated below, a limit on admission to the program may be imposed. An enrollment limit would become necessary if enrollment levels exceed school staffing capabilities and resources. The Undergraduate Admissions Committee, in consultation with the dean of the school, shall be responsible for adjusting undergraduate enrollment levels to ensure the quality of the undergraduate program. A student who meets admissions criteria will be favorably considered, but because of space limitations admission cannot be guaranteed. Once minimum criteria are met, all qualified applicants are placed into an admissions group and are ranked by academic credentials. Based on the number of available seats, students are admitted in ranked order until capacity is reached. The Moore School only considers new applicants for Fall Term admission.

Freshmen entering the UofSC Columbia Pre-Business division of the Moore School of Business must meet the campus requirements for admission. Freshmen applicants will only be considered for Fall Term admission.

Students from other UofSC campuses who have no work from colleges outside of UofSC must have a minimum cumulative Institution GPA of 3.25, must have taken at least 15 UofSC credit hours, and have completed calculus with a minimum grade of C. Additionally, those students who have fewer than 30 semester hours from colleges outside UofSC must also meet Columbia campus freshman admission requirements. Change of campus applicants will only be considered for Fall Term admission.

Students enrolled in other colleges on the Columbia campus must have a minimum cumulative Institution GPA of 3.25, must have at least 15 UofSC credit hour,and have completed calculus with a minimum grade of C. Internal transfers will only be considered for admission in the fall term.

Transfer students from other institutions must present a minimum cumulative GPA of 3.25 on all college work taken and have completed calculus with a minimum grade of C. Students who have taken fewer than 30 semester hours of college work must also meet Columbia campus freshman admission requirements. External transfers will only be considered for Fall Term admission.

Degree Requirements (125 Hours)
See Darla Moore School of Business (p. 306) for progression requirements and other regulations.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>40</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>21-30</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>24</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

- MATH 122
- Or MATH 141
- STAT 206

SCI – Scientific Literacy (7 hours)

Two approved Carolina Core Scientific Literacy courses (p. 743), including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Students shall demonstrate in one Foreign Language the ability to comprehend the topic and the main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)
CMS – Effective, Engaged, and Persuasive Communication: Spoken Component \(^1\) (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy \(^1\) (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility \(^1\) (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

\(^1\) Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (40 hours)

must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 225</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 226</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 324</td>
<td>Survey of Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>BADM 301</td>
<td>Business Careers in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>ECON 221</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 222</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FINA 363</td>
<td>Introduction to Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 250</td>
<td>Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 478</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 290</td>
<td>Computer Information Systems in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 291</td>
<td>Applied Statistics for Business</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 395</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 40

3. Program Requirements (21-30 hours)

Supporting Courses (0-9 hours)

Internationalization Requirement (0-9 hours)
The program requires 9 hours of course work with international content that may completed through other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

Language: Two language courses at the 200 level or above

OR

Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Minor or Directed Coursework (minimum of 18 hours)

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.

Electives (3-9 hours)

All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. MATH 111 or STAT 110). Students are strongly encouraged to take a business section of UNIV 101 to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.

4. Major Requirements (24 hours)

a minimum grade of C is required in all major courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 401</td>
<td>Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 402</td>
<td>Cost/Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 403</td>
<td>Tax I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 404</td>
<td>Accounting Information Systems I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 405</td>
<td>Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 406</td>
<td>Auditing I</td>
<td>3</td>
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</tbody>
</table>

Total Credit Hours 18

Major Electives

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACCT 501</td>
<td>Financial Accounting III</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 502</td>
<td>Managerial Accounting for Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 504</td>
<td>Legal Issues for Accountants &amp; Managers</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 505</td>
<td>Governmental and Nonprofit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 506</td>
<td>International Financial Reporting (^1)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 590</td>
<td>Special Topics in Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 18

\(^1\) International-focused course

Business Analytics Concentration (12 hours) optional

This analytics concentration can only be taken in conjunction with the accounting major.
Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGSC 394</td>
<td>Data Analytics for Business</td>
<td>6</td>
</tr>
<tr>
<td>ACCT 404</td>
<td>Accounting Information Systems I</td>
<td></td>
</tr>
</tbody>
</table>

**Required Courses**

**Elective Courses**

Select two of the following:

- ECON 436 Introductory Econometrics
- FINA 444 Corporate Risk Management
- FINA 469 Investment Analysis and Portfolio Management
- FINA 472 Student-Managed Investments
- IBUS 430 Research in International Business
- MGMT 425 Analytics for the Human Resources Professional
- MGSC 390 Business Information Systems
- MGSC 391 Applied Statistical Modeling
- MGSC 486 Service Operations Management
- MKTG 352 Principles of Marketing Research
- MKTG 447 Pricing Strategy and Analytics

Note: a maximum of one course can double count within your major(s).

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

- Accounting, B.S.B.A. (https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_acct_map.pdf)

**Business Administration Minor**

**Minor Requirements (18 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 222</td>
<td>Survey of Accounting ¹</td>
<td>3</td>
</tr>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics ²</td>
<td>3</td>
</tr>
<tr>
<td>FINA 333</td>
<td>Finance and Markets</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 290</td>
<td>Computer Information Systems in Business</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours**

18

¹ If ACCT 225 was taken prior to being a business minor, it may be used to satisfy the Accounting requirement.

² If ECON 221 and ECON 222 were taken prior to being a business minor, they may be used to satisfy the Economics requirement.

**Economics Programs**

- Business Economics, B.S.B.A. (p. 312)
- Economics Minor (p. 314)

**Courses**

- **ECON 123 - The American Economy (3 Credits)**
  Basic concepts, institutional foundations, structure of the private and public sector, labor markets; major economic problems.

- **ECON 221 - Principles of Microeconomics (3 Credits)**
  The study of supply and demand, pricing and cost concepts, firm and consumer decision-making, market structure, and government policies.

- **ECON 222 - Principles of Macroeconomics (3 Credits)**
  The study of gross domestic product, business cycles, economic growth, inflation, unemployment, and monetary and fiscal policy.

- **ECON 223 - Introduction to Economics (3 Credits)**
  Introduction to economics principles for non-majors. Basics of supply and demand, and government and monetary policy are covered in a non-technical manner. Not open to business or economics students. Credit not granted for both ECON 223 and ECON 221 or ECON 222.

- **ECON 224 - Introduction to Economics (3 Credits)**
  The study of supply and demand, markets, household and firm decision-making, gross domestic product, inflation, unemployment, and government policies. Open to all students except business administration and economics majors.

- **ECON 301 - Money and Banking (3 Credits)**
  The role of money in the market economy. Commercial banks, the Federal Reserve System, and monetary policy. Cannot be used to satisfy major requirements.

  **Prerequisites:** ECON 221 and ECON 222, or ECON 224.

- **ECON 303 - The International Economy (3 Credits)**
  Survey of international economic issues and institutions, including trade and protectionism, global and regional trade agreements, trade balances and exchange rates, Japan, NAFTA, and the European Union.

  **Prerequisites:** ECON 224.

- **Graduation with Leadership Distinction:** GLD: Global Learning

- **ECON 311 - Issues in Economics (3 Credits)**
  The nature and causes of major economic problems facing the nation and its communities, and policy alternatives designed to solve them. The philosophy and methodology of economics in social problem solving.

  **Prerequisites:** ECON 221 and ECON 222, or ECON 224.

- **ECON 321 - Intermediate Microeconomic Theory (3 Credits)**
  Analysis of the economic behavior of households and firms. Production, consumption, price determination, and the degree of competition in markets.

  **Prerequisites:** ECON 221 and ECON 222, or ECON 224, MATH 122 or MATH 141.
ECON 322 - Intermediate Macroeconomic Theory (3 Credits)
Analysis of the national economy as a whole. Money, output, employment, inflation, and international economic linkages.
Prerequisites: ECON 221 and ECON 222, or ECON 224, MATH 122 or MATH 141.

ECON 329 - American Economic History (3 Credits)
Growth and development of the American economy; applications of economic theory to economic history.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 363 - Business Finance (3 Credits)
The procurement and management of wealth by privately owned profit-seeking enterprises.
Prerequisites: ECON 221, ACCT 225, and 3 hours of statistics at the 200-level.

ECON 364 - Financial Institutions (3 Credits)
A study of the functions and operations of financial institutions and their relationships to the commercial banking system and the general economy. Attention is devoted to savings institutions, insurance companies, rural and urban real estate credit, consumer credit, and associated topics.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 379 - Government Policy Toward Business (3 Credits)
An analysis of public policy toward business in the United States. Emphasis is on the desirability of various policies in light of their consequences for the general welfare.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 399 - Independent Study (1-15 Credits)
Contract approved by instructor, advisor, and undergraduate division head is required.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Research

ECON 402 - Money, Income, and Prices (3 Credits)
A study of monetary standards, monetary theory, monetary policy, and the mechanism of international payments. Attention is devoted to questions of monetary problems, employment, and fiscal policy.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 406 - Labor Economics (3 Credits)
A study of labor market institutions, trends in labor market activity, and the effects of government policy on the labor market. (Not open to majors in economics.)
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 408 - History of Economic Thought (3 Credits)
A survey of economics from the ancient philosophers to the present; with emphasis on the mercantilist, physiocratic, classical, Marxist, Austrian, neo-classical, and institutional schools of economics.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 415 - Economics of American Industry (3 Credits)
A study of the structure of selected American industries, of the development and concentration of economic power in the American economy, and of public policy toward industry.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 420 - Business Applications of Economic Forecasting (3 Credits)
Analysis of business cycles and applications of forecasting techniques to project and interpret economic trends.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 421 - Engineering Economics (3 Credits)
Decision making with respect to capital goods, with emphasis on such decision making in governmental activities and public utilities. Intended primarily for engineering students, the course emphasizes the types of investment decisions that engineers are often called upon to make.

ECON 436 - Introductory Econometrics (3 Credits)
The use of statistical techniques to analyze economic relationships. The emphasis is on the application of linear regression to real-world economic data.
Prerequisites: ECON 224, or ECON 221 and ECON 222; MGSC 291 or STAT 201; and MATH 122 or MATH 141.

Carolina Core: ARP

ECON 476 - Foundations of Capitalism (3 Credits)
Examines the foundations of capitalism and why it has prevailed over alternative systems. Topics include the justification of private property, distribution of wealth, profit motive, source of wealth creation, and others.
Prerequisites: ECON 211 and ECON 222.

ECON 499 - Internship in Economics (1-6 Credits)
Supervised work experience of at least nine hours per week, to include one class meeting a month and individual consultation. Contract approval by instructor, advisor, and department chair is required. Cannot be used to satisfy major requirement.
Prerequisites: C or better in both ECON 321 and ECON 322, and cumulative GPA of 2.75.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ECON 500 - Urban Economics (3 Credits)
An analysis of economic forces affecting urbanization and the economic processes influencing urban form and structure. Spatial concepts are considered in addition to traditional micro-economic and macro-economic concepts. Topic coverage includes: the economic origin of cities; urban functions and the urban economic base, land-use structure and urban form, and urban efficiency.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 503 - International Trade Economics (3 Credits)
Theory of international specialization, commercial policy, customs unions, and the effects of trade liberalization and protectionism; economic growth and multinational enterprises.
Prerequisites: ECON 321.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 504 - International Monetary Economics (3 Credits)
Exchange rate and balance of payments determination; purchasing-power parity; optimum currency areas, absorption, elasticity, monetary approaches, spot- and forward-exchange markets.
Prerequisites: ECON 322.

Graduation with Leadership Distinction: GLD: Global Learning
ECON 505 - International Development Economics (3 Credits)
Economic theories of growth in developing countries. Use of factor resources; role of social and economic institutions; use of financial trade policies for growth.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 506 - Labor Economics and Labor Markets (3 Credits)
Economics of labor demand, labor supply, wage determination in competitive markets, migration, discrimination, unemployment, and labor unions. Theoretical models and empirical knowledge will be considered.
Prerequisites: ECON 221 and ECON 222, or ECON 224; ECON 321.

ECON 507 - Comparative Economic Systems (3 Credits)
An analysis of the organization and operation of the world's major economic systems.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 508 - Law and Economics (3 Credits)
Economic analysis and interpretation of the law. The economic effect of current law and optimal design of law to meet social objectives.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 509 - Economics of Sustainable Development (3 Credits)
Exploration of the basic theory and practice of sustainable economic development. Topics include: environmental legislation, global agreements, sustainable development indicators, and economic strategies and methods to promote environmentally sound development.
Prerequisites: C or better in the following ECON 221 and ECON 222; or ECON 224; MATH 122.

Graduation with Leadership Distinction: GLD: Community Service

ECON 510 - Experimental Economics (3 Credits)
Exploration of the basic theory and techniques of experimental economics. Topics include: basic game theory, experimental design, and elements of behavioral economic thought.
Prerequisites: C or higher in ECON 321.

ECON 511 - Senior Seminar in Economics (3 Credits)
Philosophy and methodology of economics, perspectives on theory and empiricism, economic policy; individualized guided research.
Prerequisites: ECON 321, ECON 322, and ECON 436 with grade of C or higher.

ECON 514 - The Economics of Terrorism (3 Credits)
Focuses on the following aspects of terrorism: (1) its causes/determinants (historical, social, cultural, economic, political, and religious determinants); (2) the organizational and funding structure of terrorist groups; (3) the tactics and weapons of terrorist groups; (4) mobilization and recruitment within terror networks; and (5) counterterrorism methods. Restricted to: Business Majors and Economics Arts and Sciences Majors.
Prerequisites: C or better in ECON 321.

ECON 515 - Industrial Organization (3 Credits)
This course uses the tools of microeconomics and game theory to examine how firms compete and competition's impact on industry performance. Topics include: price discrimination, product differentiation, and oligopoly behavior.
Prerequisites: ECON 321.

ECON 516 - Political Economy (3 Credits)
This course covers fundamental models of collective decision making, studies their empirical relevance, and considers interactions between the economy and politics.
Prerequisites: C or better in ECON 221 and ECON 222 or C or better in ECON 224.

ECON 523 - Introduction to Mathematical Economics (3 Credits)
Mathematical formulation of economic theories; the use of mathematics in the development and demonstration of economic relationships.
Prerequisites: ECON 221 and ECON 222, or ECON 224; MATH 122, MATH 141, or the equivalent.

ECON 524 - Essentials of Economics (3 Credits)
A course designed to acquaint the student with the principles of operation of the American economic system. A survey course for social studies teachers in secondary schools.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 526 - Managerial Economics (3 Credits)
A study of the application of the economic theory of profits, competition, demand, and costs to analysis of problems arising in the firm and in decision making. Price policies, forecasting, and investment decisions are among the topics considered.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 530 - The Economics of Education (3 Credits)
Investment in human capital; the economic value of schooling; internal efficiency of schools; faculty compensation; equity and efficiency of school finance systems; financing higher education.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 531 - Health Economics (3 Credits)
Applications of economic analysis to health care. Structure and behavior of health-care markets. Description of health care policy issues.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 548 - Environmental Economics (3 Credits)
An analysis of the economic aspects of environmental decay, pollution control, and natural resource use. Analysis of the ability of the market system to allocate resources efficiently when economic activity is accompanied by environmental damage. Discussion of alternative public policy approaches to pollution control and natural resource conservation.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Cross-listed course: ENVR 548

ECON 555 - Game Theory in Economics (3 Credits)
Game theory as used to understand decision making in business, economics, politics and other real-world environments. Topics covered include: basic terminology; strategic, extensive, and combinatorial models; and equilibrium strategy.
Prerequisites: ECON 321 or MATH 141 and STAT 201 or C or higher in STAT 206.

ECON 556 - Public Finance (3 Credits)
Theory and practice of taxation: public revenue, expenditure, and debt.
Prerequisites: C or higher in ECON 321.

ECON 589 - Topics in Economics (1-3 Credits)
Individual topics to be announced with title.
Prerequisites: ECON 221 and ECON 222, or ECON 224.
Learning Outcomes

- Students will achieve an acceptable pass rate on questions related to the following core microeconomic concepts: (a) Consumer utility maximization (b) Producer profit maximization (c) Equilibrium and welfare analysis under different market structures (d) Importance of externalities
- Students will achieve an acceptable pass rate on questions related to the following core macroeconomic concepts: (a) Determination of full-employment output and growth (b) Money creation and inflation (c) Employment and output fluctuations over the business cycle (d) Fundamentals of macroeconomic policy
- Students will achieve be able to: (a) Solve basic equations to find equilibrium outcomes (b) Use graphs to understand and interpret economic relationships
- Students will be able to successfully prepare a research paper and present the results of their research their peers in a classroom environment.

Internationalization Requirement

The program also requires 9 hours of course work with international content that may be used to fulfill other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

- **Language**: Two language courses at the 200 level or above or
- **Electives**: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Admissions

Entrance Requirements

In addition to the academic admission requirements of the Moore School of Business stated below, a limit on admission to the program may be imposed. An enrollment limit would become necessary if enrollment levels exceed school staffing capabilities and resources. The Undergraduate Admissions Committee, in consultation with the dean of the school, shall be responsible for adjusting undergraduate enrollment levels to ensure the quality of the undergraduate program. A student who meets admissions criteria will be favorably considered, but because of space limitations admission cannot be guaranteed. Once minimum criteria are met, all qualified applicants are placed into an admissions group and are ranked by academic credentials. Based on the number of available seats, students are admitted in ranked order until capacity is reached. The Moore School only considers new applicants for Fall Term admission.

Freshmen entering the UofSC Columbia Pre-Business division of the Moore School of Business must meet the campus requirements for admission. Freshmen applicants will only be considered for Fall Term admission.

Students from other UofSC campuses who have no work from colleges outside of UofSC must have a minimum cumulative Institution GPA of 3.25, must have taken at least 15 UofSC credit hours, and have completed calculus with a minimum grade of C. Additionally, those students who have fewer than 30 semester hours from colleges outside UofSC must also meet Columbia campus freshman admission requirements. Change of campus applicants will only be considered for Fall Term admission.

Students enrolled in other colleges on the Columbia campus must have a minimum cumulative Institution GPA of 3.25, must have at least 15 UofSC credit hour, and have completed calculus with a minimum grade of C. Internal transfers will only be considered for admission in the fall term.

Transfer students from other institutions must present a minimum cumulative GPA of 3.25 on all college work taken and have completed calculus with a minimum grade of C. Students who have taken fewer
than 30 semester hours of college work must also meet Columbia campus freshman admission requirements. External transfers will only be considered for Fall Term admission.

Degree Requirements (122 hours)
See Darla Moore School of Business (p. 306) for progression requirements and other regulations.

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<td>4. Major Requirements</td>
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1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

must be passed with a grade of C or higher

- MATH 122 or MATH 141
- STAT 206

SCI – Scientific Literacy (7 hours)

- Two approved Carolina Core Scientific Literacy courses (p. 743), including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Students shall demonstrate in one Foreign Language the ability to comprehend the topic and the main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.

- any CC-GFL course (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (40 hours)

must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ACCT 225</td>
<td>Introduction to Financial Accounting</td>
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</tr>
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<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 40

3. Program Requirements (27-36 hours)

must be passed with a grade of C or higher

Supporting Courses (0-6 hours)

Upper-Level Business Electives: Students with a single major in Business Economics must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.

Minor or Directed Coursework (minimum of 18 hours)

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the
Economics Minor

4. Major Requirements (15 hours)

A minimum grade of C is required in all major courses.

<table>
<thead>
<tr>
<th>Major Courses (9 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course</td>
</tr>
<tr>
<td>ECON 321</td>
</tr>
<tr>
<td>ECON 322</td>
</tr>
<tr>
<td>ECON 436</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
</tr>
</tbody>
</table>

**Major Electives (6 hours)**

Six hours of ECON courses numbered 400 or above.

Note: ECON 421, ECON 476, ECON 499 and ECON 524 cannot be used to fulfill the 6 hour requirement.

Business Analytics Concentration (12 hours) optional

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

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<td>MGSC 394</td>
<td>Data Analytics for Business</td>
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<td>Select nine hours from the following:</td>
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<td>ECON 436</td>
<td>Introductory Econometrics</td>
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<td>Corporate Risk Management</td>
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<td>FINA 472</td>
<td>Student-Managed Investments</td>
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</tr>
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<td>IBUS 430</td>
<td>Research in International Business</td>
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<tr>
<td>MGMT 425</td>
<td>Analytics for the Human Resources Professional</td>
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<td>MGSC 390</td>
<td>Business Information Systems</td>
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<td>MGSC 486</td>
<td>Service Operations Management</td>
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<tr>
<td>MKTG 352</td>
<td>Principles of Marketing Research</td>
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</tr>
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<td>Pricing Strategy and Analytics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
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</table>

1. If a student earned an A in ECON 224, then they are exempted from also taking ECON 221 or ECON 222, but one additional ECON elective must be taken. If ECON 221, ECON 222 or ECON 224 are being used to meet other College or Major requirements, then additional ECON electives must be taken to substitute for those courses.

Electives (6-12 Hours)

ECON electives at the 300 level or higher, excluding ECON 499 and ECON 511.

Finance, B.S.B.A.

Learning Outcomes

- Students will understand fundamental financial concepts related to the time value of money and risk-expected return tradeoffs.
- Students will have basic knowledge of the institutional context in which financial decisions and transactions take place.
- Students will be able to conduct a capital budgeting analysis, including calculating expected cash flows, cost of capital, and net present value.
• Students will be able to assess the risk-expected return tradeoffs when constructing a portfolio and apply metrics to assess portfolio performance.
• Students will be able to evaluate a company’s prospects and risks.
• Students will be able to infer the impact of business decisions on firm performance.

Internationalization Requirement
The program also requires 9 hours of course work with international content that may be used to fulfill other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

• Language: Two language courses at the 200 level or above or
• Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Admissions
Entrance Requirements
In addition to the academic admission requirements of the Moore School of Business stated below, a limit on admission to the program may be imposed. An enrollment limit would become necessary if enrollment levels exceed school staffing capabilities and resources. The Undergraduate Admissions Committee, in consultation with the dean of the school, shall be responsible for adjusting undergraduate enrollment levels to ensure the quality of the undergraduate program. A student who meets admissions criteria will be favorably considered, but because of space limitations admission cannot be guaranteed. Once minimum criteria are met, all qualified applicants are placed into an admissions group and are ranked by academic credentials. Based on the number of available seats, students are admitted in ranked order until capacity is reached. The Moore School only considers new applicants for Fall Term admission.

Freshmen entering the UofSC Columbia Pre-Business division of the Moore School of Business must meet the campus requirements for admission. Freshmen applicants will only be considered for Fall Term admission.

Students from other UofSC campuses who have no work from colleges outside of UofSC must have a minimum cumulative Institution GPA of 3.25, must have taken at least 15 UofSC credit hours, and have completed calculus with a minimum grade of C. Additionally, those students who have fewer than 30 semester hours from colleges outside UofSC must also meet Columbia campus freshman admission requirements. Change of campus applicants will only be considered for Fall Term admission.

Students enrolled in other colleges on the Columbia campus must have a minimum cumulative Institution GPA of 3.25, must have at least 15 UofSC credit hour, and have completed calculus with a minimum grade of C. Internal transfers will only be considered for admission in the fall term.

Transfer students from other institutions must present a minimum cumulative GPA of 3.25 on all college work taken and have completed calculus with a minimum grade of C. Students who have taken fewer than 30 semester hours of college work must also meet Columbia campus freshman admission requirements. External transfers will only be considered for Fall Term admission.

Degree Requirements (122 hours)
See Darla Moore School of Business (p. 306) for progression requirements and other regulations.

Program of Study

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<td>2. College Requirements</td>
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</tr>
<tr>
<td>3. Program Requirements</td>
<td>27-36</td>
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<tr>
<td>4. Major Requirements</td>
<td>15</td>
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1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• ENGL 101
• ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

must be passed with a grade of C or higher

• MATH 122 or MATH 141
• STAT 206

SCI – Scientific Literacy (7 hours)

• Two approved Carolina Core Scientific Literacy courses (p. 314), including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Students shall demonstrate in one Foreign Language the ability to comprehend the topic and the main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.

• CC-GFL courses (p. 314)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• any CC-GHS course (p. 314)
GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 314)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 314)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component \(^1\) (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 314)

INF – Information Literacy \(^1\) (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 314)

VSR – Values, Ethics, and Social Responsibility \(^1\) (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 314)

\(^1\) Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (40 hours)

must be passed with a grade of C or higher

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</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 40

3. Program Requirements (27-36 hours)

Supporting Courses (0-6 hours)

must be passed with a grade of C or higher

Upper-Level Business Electives: Students with a single major in Finance must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.

Minor or Directed Coursework (minimum of 18 hours)

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.

Electives (3-12 hours)

All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. MATH 111 or STAT 110). Students are strongly encouraged to take a business section of UNIV 101 to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with elective credits to reach minimum degree hours.

4. Major Requirements (15 hours)

a minimum grade of C is required in all major courses

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</thead>
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<tr>
<td>FINA 365</td>
<td>Corporate Financial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FINA 469</td>
<td>Investment Analysis and Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>FINA 470</td>
<td>Financial Statement Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 9

Major Electives (6 hours)

Select six hours from the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 341</td>
<td>Management of Risk and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FINA 366</td>
<td>Introduction to Real Estate and Urban Development</td>
<td>3</td>
</tr>
<tr>
<td>FINA 444</td>
<td>Corporate Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>FINA 463</td>
<td>Case Studies in Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>FINA 465</td>
<td>Commercial Bank Practice and Policy</td>
<td>3</td>
</tr>
<tr>
<td>FINA 467</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>FINA 471</td>
<td>Derivative Securities</td>
<td>3</td>
</tr>
<tr>
<td>FINA 475</td>
<td>Fixed Income Securities</td>
<td>3</td>
</tr>
<tr>
<td>FINA 476</td>
<td>Foundations of Capitalism (^1)</td>
<td>3</td>
</tr>
<tr>
<td>FINA 490</td>
<td>Special Topics in Finance (^2)</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 401</td>
<td>International Financial Management (^1)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

\(^1\) International-focused course.

\(^2\) Depending on the semester or nature of the project, FINA 490 may or may not be applicable to the Finance major. Please consult your advisor to determine if it is applicable in the semester you wish to enroll in the project course.
Note: FINA 333 FINA 367, FINA 369, FINA 442, FINA 443, and FINA 446 do not count towards the major in Finance.

Business Analytics Concentration (12 hours) optional
Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

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<td>MGSC 394</td>
<td>Data Analytics for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Select nine hours from the following:

- ACCT 404 Accounting Information Systems I
- ECON 436 Introductory Econometrics
- FINA 444 Corporate Risk Management
- FINA 469 Investment Analysis and Portfolio Management (Designated sections only)
- FINA 472 Student-Managed Investments
- IBUS 430 Research in International Business
- MGMT 425 Analytics for the Human Resources Professional
- MGSC 390 Business Information Systems
- MGSC 486 Service Operations Management
- MKTG 352 Principles of Marketing Research
- MKTG 447 Pricing Strategy and Analytics

Total Credit Hours 12

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Finance, B.S.B.A.

International Business, B.S.B.A.

Learning Outcomes
Students will demonstrate...

- In-depth capacity in a functional area of business.
- Strong understanding of the global dimensions of business.
- Excellent communication skills in more than one language.
- Appreciation of the impact of culture on the conduct of business.
- Exposure to living in a second culture.

Internationalization Requirement
The program also requires 9 hours of course work with international content that may be used to fulfill other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

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- Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

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Transfer students from other institutions must present a minimum cumulative GPA of 3.25 on all college work taken and have completed calculus with a minimum grade of C. Students who have taken fewer than 30 semester hours of college work must also meet Columbia campus freshman admission requirements. External transfers will only be considered for Fall Term admission.

Additional Admission Information
Admission to the International Business major is highly competitive, and enrollment is limited. Individual limits apply to language selections in the regional concentrations.
Degree Requirements (128-131 hours)
See Darla Moore School of Business (p. 306) for progression requirements and other regulations.

Program of Study

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1. Carolina Core Requirements (31-43 hours)

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*must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)
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- MATH 122 or MATH 141
- STAT 206

SCI – Scientific Literacy (7 hours)

- Two approved Carolina Core Scientific Literacy courses (p. 314), including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Students shall demonstrate in one Foreign Language the ability to comprehend the topic and the main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.

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- any CC-GHS course (p. 314)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 314)

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- any CC-AIU course (p. 314)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 314)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 314)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 314)

1 Carolina Core Stand Alone or Overlay Eligible

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2. College Requirements (40 hours)

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<td>BADM 301</td>
<td>Business Careers in the Global Economy</td>
<td>1</td>
</tr>
<tr>
<td>ECON 221</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 222</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FINA 363</td>
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</tr>
<tr>
<td>MGMT 250</td>
<td>Professional Communication</td>
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</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 478</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 290</td>
<td>Computer Information Systems in Business</td>
<td>3</td>
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<td>Applied Statistics for Business</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 395</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 40

3. Program Requirements (21-30 hours)

Minor or Directed Coursework (minimum of 18 hours)

Directed course work may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to their Moore School academic advisor to satisfy the approved course work requirement. All minor courses or courses approved as alternatives must be passed with a grade of C or better.

Electives (3-12 hours)

All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. MATH 111 or STAT 110). Students are strongly encouraged to take a business section of UNIV 101 to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay...
courses. Those credit hours must be replaced with additional elective credits.

4. Major Requirements (27-39 hours)

Students majoring in International Business are required to study outside the United States for a period of one semester, normally the spring semester of the academic year in which IBUS 310 is taken, at an approved institution. Exceptions to this requirement will be granted in cases of hardship. Students in regional cohort tracks meet the overseas study requirement at the cohort partner institution. The curriculum of the International Business major satisfies the Moore School internationalization requirement.

A minimum grade of C is required in all major courses.

Major Courses (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBUS 310</td>
<td>Globalization and Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 3

Major Electives (12 hours)

Functional Courses

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 506</td>
<td>International Financial Reporting</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 401</td>
<td>International Financial Management</td>
<td></td>
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<tr>
<td>IBUS 402</td>
<td>International Marketing</td>
<td></td>
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<tr>
<td>IBUS 403</td>
<td>International Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>IBUS 405</td>
<td>International Information Systems</td>
<td></td>
</tr>
<tr>
<td>IBUS 430</td>
<td>Research in International Business</td>
<td></td>
</tr>
<tr>
<td>IBUS 432</td>
<td>The Business Case for Services Offshoring</td>
<td></td>
</tr>
<tr>
<td>MGMT 406</td>
<td>International Human Resource Management</td>
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<tr>
<td>MGSC 405</td>
<td>International Information Systems</td>
<td></td>
</tr>
<tr>
<td>ECON 503</td>
<td>International Trade Economics</td>
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<tr>
<td>ECON 504</td>
<td>International Monetary Economics</td>
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<tr>
<td>ECON 505</td>
<td>International Development Economics</td>
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</tbody>
</table>

Thematic Courses

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBUS 422</td>
<td>Foreign Market Entry and Growth</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 423</td>
<td>Cross-Cultural Behavior and Negotiations</td>
<td></td>
</tr>
<tr>
<td>IBUS 424</td>
<td>Exporting and Importing</td>
<td></td>
</tr>
<tr>
<td>IBUS 425</td>
<td>Competitive Strategies in Developing Countries</td>
<td></td>
</tr>
<tr>
<td>IBUS 426</td>
<td>Global Competitive Analysis</td>
<td></td>
</tr>
<tr>
<td>IBUS 427</td>
<td>Global Stakeholder Management</td>
<td></td>
</tr>
<tr>
<td>IBUS 428</td>
<td>Islamic Economics and Finance</td>
<td></td>
</tr>
<tr>
<td>IBUS 429</td>
<td>Comparative Innovation Systems</td>
<td></td>
</tr>
<tr>
<td>IBUS 431</td>
<td>Intercultural Competencies for Working in International Teams</td>
<td></td>
</tr>
<tr>
<td>IBUS 433</td>
<td>Economic Globalization: Leadership and the Transnational Mindset</td>
<td></td>
</tr>
<tr>
<td>IBUS 434</td>
<td>Social Networks and Global Leadership</td>
<td></td>
</tr>
<tr>
<td>IBUS 435</td>
<td>Market Development and Global Strategy</td>
<td></td>
</tr>
<tr>
<td>IBUS 521</td>
<td>Ethnographic Methods in International Marketing</td>
<td></td>
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</tbody>
</table>

Regional Courses

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBUS 541</td>
<td>Business in Latin America 1</td>
<td></td>
</tr>
<tr>
<td>IBUS 542</td>
<td>Business in Asia 1</td>
<td></td>
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<tr>
<td>IBUS 543</td>
<td>Business in Europe 1</td>
<td></td>
</tr>
<tr>
<td>IBUS 544</td>
<td>Business in Africa 1</td>
<td></td>
</tr>
</tbody>
</table>

Additional Functional or Thematic Course

Select 3 hours 3

Total Credit Hours 12

1 Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.

Second Major (12-24 hours)

The International Business major must be taken in combination with a second major in business.

Regional Cohort Concentrations (15 hours)

Students in each regional concentration of the International Business major meet the regional course requirements with courses dealing primarily in that region.

Competitive Admission

Admission to each concentration of the international business major is highly competitive, and enrollment is limited. Individual limits apply to language selections in the regional concentrations.

Double Major

All students selecting international business as a major, regardless of concentration, are required to complete a second major in business.

Foreign Language

The International Business major requires at least four advanced language courses numbered 300 and above in one foreign language. Students in specific concentrations must meet experiential language program participation requirements that do not equate to specific hours, credits, or course levels. Most students use language courses to fulfill their Minor or Directed Coursework Requirement in the Moore School.

Foreign Study

Students are placed at partner schools through a competitive application process. Students in regional cohort concentrations meet the overseas study requirement at the cohort partner institution and spend a minimum of two semesters abroad depending on cohort concentration. Experiential program requirements are outlined in the Program Expectations for each cohort concentration.

Conduct

Regional Cohort Concentrations have specific behavioral requirements. Those requirements are outlined in the Program Expectations for each cohort.

Chinese Business (15 hours)

The Chinese Business concentration in the International Business major allows the student to focus on International Business activities with China. Students in this concentration meet the foreign language requirement by selecting Chinese as the language of study. The Chinese language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the required directed coursework. The language requirement for Chinese Business is heavily dependent on incoming language level. If students enroll at
USC with C7 on their Chinese placement test, they may not be required to participate in the summer language institutes.

- IBUS 310
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - IBUS 542\(^1\)
  - IBUS 490\(^1\)

\(^1\) Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.

**Eurasian Business (15 hours)**  
**PENDING**

*Note: The Eurasian Business Track is awaiting final oversight approval and a completed memorandum of understanding. Accordingly, it is not accepting students at this time.*

The Eurasian Business concentration in the International Business major allows the student to focus on International Business activities centered on this region. Students in this concentration meet the foreign language requirement by selecting either Turkish or Russian as the language of study. The language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the required directed coursework.

- IBUS 310
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses from the following (6 hours):
  - IBUS 542\(^1\)
  - IBUS 543\(^1\)
  - IBUS 490\(^1\)

\(^1\) Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.

**European Business (15 hours)**

The European Business concentration in the International Business major allows the student to focus on International Business activities within a global context. Students in this concentration meet the foreign language requirement by selecting French, German, or Italian as the language of study. The language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the required directed coursework.

- IBUS 310
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - IBUS 542\(^1\)
  - IBUS 490\(^1\)

\(^1\) Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.

**Global Business (15 hours)**

The Global Business concentration in the International Business major allows the student to focus on International Business activities within a global context. Students in this concentration meet the foreign language requirement by selecting a modern spoken language in the USC language department as the language of study. The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the required directed coursework.

- IBUS 310
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - IBUS 541\(^1\)
  - One from the following:
    - IBUS 542\(^1\)
    - IBUS 543\(^1\)
    - IBUS 544\(^1\)
    - IBUS 490\(^1\)

\(^1\) Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.

**Global Business Innovation (15 hours)**

The Global Business Innovation Concentration in the International Business major allows the student to focus on International Business activities within a global context. Students in this concentration meet the foreign language requirement by selecting a modern spoken language in the USC language department as the language of study. The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the required directed coursework.

- IBUS 310
- One functional course from the list above (3 hours)
- One thematic course from the list above (3 hours)
- Two regional courses (6 hours)
  - IBUS 541\(^1\)
  - IBUS 490\(^1\)

\(^1\) Because one or more of these courses may not be offered on campus during the two years that a student may be taking major-level courses, these courses are most appropriate for study abroad.

**Middle East and North Africa (MENA) Business (15 hours)**

The Middle East and North Africa (MENA) Business concentration in the International Business major allows the student to focus on International Business activities with this region. Students in this concentration meet the foreign language requirement by selecting Arabic as the language of study. The Arabic language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the required directed coursework. The language requirement for the MENA program is heavily dependent on incoming language level. If students enroll at USC with A4 on their Arabic placement test, they are not required to participate in both summer language institutes. Only one may be required based on evaluation of proficiency.
• IBUS 310
• One functional course from the list above (3 hours)
• One thematic course from the list above (3 hours)
• Two regional courses from the list above (3 hours)

South American Business (15 hours)
The South American Business concentration in the International Business major allows the student to focus on International Business activities with this region. Students in this concentration meet the foreign language requirement by selecting Portuguese or Spanish as the language of study. The foreign language placement test will determine at which level the student will begin. Foreign language courses may be included as part of the required directed coursework.

• IBUS 310
• One functional course from the list above (3 hours)
• One thematic course from the list above (3 hours)
• Two regional courses from the list above (3 hours)

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Management, B.S.B.A.
Learning Outcomes
• Students should understand the role of management and managers in building an effective organization.
• Students should understand the role of research in improving managerial practice.
• Students should be able to apply management principles to determine how managers should respond to particular challenges or opportunities confronting an organization.
• Students should be able to effectively communicate management principles or the application of those principles to particular organizational circumstances.

Internationalization Requirement
The program also requires 9 hours of course work with international content that may be used to fulfill other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

• Language: Two language courses at the 200 level or above
• Electives: Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Admissions
Entrance Requirements
In addition to the academic admission requirements of the Moore School of Business stated below, a limit on admission to the program may be imposed. An enrollment limit would become necessary if enrollment levels exceed school staffing capabilities and resources. The Undergraduate Admissions Committee, in consultation with the dean of the school, shall be responsible for adjusting undergraduate enrollment levels to ensure the quality of the undergraduate program. A student who meets admissions criteria will be favorably considered, but because of space limitations admission cannot be guaranteed. Once minimum criteria are met, all qualified applicants are placed into an admissions group and are ranked by academic credentials. Based on the number of available seats, students are admitted in ranked order until capacity is reached. The Moore School only considers new applicants for Fall Term admission.

Freshmen entering the UofSC Columbia Pre-Business division of the Moore School of Business must meet the campus requirements for admission. Freshmen applicants will only be considered for Fall Term admission.

Students from other UofSC campuses who have no work from colleges outside of UofSC must have a minimum cumulative Institution GPA
of 3.25, must have taken at least 15 UofSC credit hours, and have completed calculus with a minimum grade of C. Additionally, those students who have fewer than 30 semester hours from colleges outside UofSC must also meet Columbia campus freshman admission requirements. Change of campus applicants will only be considered for Fall Term admission.

Students enrolled in other colleges on the Columbia campus must have a minimum cumulative Institution GPA of 3.25, must have at least 15 UofSC credit hours, and have completed calculus with a minimum grade of C. Internal transfers will only be considered for admission in the fall term.

Transfer students from other institutions must present a minimum cumulative GPA of 3.25 on all college work taken and have completed calculus with a minimum grade of C. Students who have taken fewer than 30 semester hours of college work must also meet Columbia campus freshman admission requirements. External transfers will only be considered for Fall Term admission.

**Degree Requirements (122-128 hours)**

See Darla Moore School of Business (p. 306) for progression requirements and other regulations.

**Program of Study**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>40</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>21-36</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>15-36</td>
</tr>
</tbody>
</table>

1. **Carolina Core Requirements (31-43 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

**ARP – Analytical Reasoning and Problem Solving (6-7 hours)**

*must be passed with a grade of C or higher*

- MATH 122 or MATH 141
- STAT 206

**SCI – Scientific Literacy (7 hours)**

- Two approved Carolina Core Scientific Literacy courses (p. 743), including one laboratory course

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Students shall demonstrate in one Foreign Language the ability to comprehend the topic and the main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.

- CC-GFL courses (p. 743)

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

- any CC-GHS course (p. 743)

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- any CC-GSS course (p. 743)

**AIU – Aesthetic and Interpretive Understanding (3 hours)**

- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)**

- any overlay or stand-alone CC-CMS course (p. 743)

**INF – Information Literacy ¹ (0-3 hours)**

- any overlay or stand-alone CC-INF course (p. 743)

**VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)**

- any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. **College Requirements (40 hours)**

*must be passed with a grade of C or higher*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 225</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 226</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 324</td>
<td>Survey of Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>BADM 301</td>
<td>Business Careers in the Global Economy</td>
<td>1</td>
</tr>
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</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 40

3. **Program Requirements (21-36 hours)**

**Supporting Courses (0-6 hours)**

*must be passed with a grade of C or higher*
Upper-Level Business Electives: Students with a single major in Management with a concentration in Human Resources and Organizational Leadership must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.

**Minor or Directed Coursework (minimum of 18 hours)**

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.

**Electives (3-12 hours)**

All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex: MATH 111 or STAT 110). Students are strongly encouraged to take a business section of UNIV 101 to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.

**4. Major Requirements (15-36 hours)**

A minimum grade of C is required in all major courses.

Students must choose either the Human Resources and Organizational Leadership Concentration or the Entrepreneurship Concentration.

**Concentrations (15-36 hours)**

**Human Resources and Organizational Leadership (15 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 374</td>
<td>Strategic Human Resource Management</td>
<td>3</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MGMT 376</td>
<td>Employee Engagement</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 401</td>
<td>Negotiation and Conflict in the Workplace</td>
<td></td>
</tr>
<tr>
<td>MGMT 402</td>
<td>Managing Teams in the Workplace</td>
<td></td>
</tr>
<tr>
<td>MGMT 403</td>
<td>Leadership in Organizations</td>
<td></td>
</tr>
<tr>
<td>MGMT 408</td>
<td>Diversity and Inclusion</td>
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<td>MGMT 425</td>
<td>Analytics for the Human Resources Professional</td>
<td>3</td>
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Select three of the following:

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>MGMT 401</td>
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</tr>
<tr>
<td>MGMT 404</td>
<td>Compensation and Retention</td>
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</tr>
<tr>
<td>MGMT 405</td>
<td>Talent Management</td>
<td></td>
</tr>
<tr>
<td>MGMT 406</td>
<td>International Human Resource Management</td>
<td>1</td>
</tr>
<tr>
<td>MGMT 407</td>
<td>Corporate Social Responsibility and Stakeholder Management</td>
<td>1</td>
</tr>
<tr>
<td>MGMT 408</td>
<td>Diversity and Inclusion</td>
<td></td>
</tr>
</tbody>
</table>

**Entrepreneurship (27-36 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 472</td>
<td>Entrepreneurship and Small Business</td>
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</tr>
<tr>
<td>MGMT 473</td>
<td>Developing and Launching New Ventures</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 474</td>
<td>Executing Strategy in New Ventures</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 479</td>
<td>Advanced Issues in Entrepreneurship</td>
<td>3</td>
</tr>
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</table>

Select nine hours from the following:

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<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
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<td>Accounting Information Systems I</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
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<tr>
<td>FINA 472</td>
<td>Student-Managed Investments</td>
<td></td>
</tr>
<tr>
<td>IBUS 430</td>
<td>Research in International Business</td>
<td></td>
</tr>
<tr>
<td>MGSC 390</td>
<td>Business Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGSC 391</td>
<td>Applied Statistical Modeling</td>
<td></td>
</tr>
<tr>
<td>MGSC 486</td>
<td>Service Operations Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 352</td>
<td>Principles of Marketing Research</td>
<td></td>
</tr>
<tr>
<td>MKTG 447</td>
<td>Pricing Strategy and Analytics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 15

1 International-focused course.

**Business Analytics Concentration (12 hours) optional**

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGSC 394</td>
<td>Data Analytics for Business</td>
<td>3</td>
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</tbody>
</table>

Select nine hours from the following:

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<td></td>
</tr>
<tr>
<td>MKTG 447</td>
<td>Pricing Strategy and Analytics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 12

Note: a maximum of one course can double count within your major(s).

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor.
for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Management, B.S.B.A. Human Resources and Organizational Leadership

Management, B.S.B.A. Entrepreneurship

Marketing, B.S.B.A.

Learning Outcomes

- Students will demonstrate knowledge of consumer behavior, and how marketers strive to use an understanding of consumer behavior to promote effective marketing through advertising, product design, or promotions.
- Students will develop an understanding of the internal and external factors that influence consumer choice.
- Students will be able to conduct marketing research, which will include the design and administration of questionnaires, an understanding of sampling techniques, and how to collect, clean, and code data.
- Students will develop the ability to analyze and interpret marketing research results.
- Students will be able to communicate market research results effectively.
- Students will develop an understanding of the strategic marketing management planning process.

Internationalization Requirement

The program also requires 9 hours of course work with international content that may be used to fulfill other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

- **Language:** Two language courses at the 200 level or above
- **Electives:** Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

Admissions

Entrance Requirements

In addition to the academic admission requirements of the Moore School of Business stated below, a limit on admission to the program may be imposed. An enrollment limit would become necessary if enrollment levels exceed school staffing capabilities and resources. The Undergraduate Admissions Committee, in consultation with the dean of the school, shall be responsible for adjusting undergraduate enrollment levels to ensure the quality of the undergraduate program. A student who meets admissions criteria will be favorably considered, but because of space limitations admission cannot be guaranteed. Once minimum criteria are met, all qualified applicants are placed into an admissions group and are ranked by academic credentials. Based on the number of available seats, students are admitted in ranked order until capacity is reached. The Moore School only considers new applicants for Fall Term admission.

Freshmen entering the UofSC Columbia Pre-Business division of the Moore School of Business must meet the campus requirements for admission. Freshmen applicants will only be considered for Fall Term admission.

Students from other UofSC campuses who have no work from colleges outside of UofSC must have a minimum cumulative Institution GPA of 3.25, must have taken at least 15 UofSC credit hours, and have completed calculus with a minimum grade of C. Additionally, those students who have fewer than 30 semester hours from colleges outside UofSC must also meet Columbia campus freshman admission requirements. Change of campus applicants will only be considered for Fall Term admission.

Students enrolled in other colleges on the Columbia campus must have a minimum cumulative Institution GPA of 3.25, must have at least 15 UofSC credit hour, and have completed calculus with a minimum grade of C. Internal transfers will only be considered for admission in the fall term.

Transfer students from other institutions must present a minimum cumulative GPA of 3.25 on all college work taken and have completed calculus with a minimum grade of C. Students who have taken fewer than 30 semester hours of college work must also meet Columbia campus freshman admission requirements. External transfers will only be considered for Fall Term admission.

Degree Requirements (122 hours)

See Darla Moore School of Business (p. 306) for progression requirements and other regulations.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>40</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>27-36</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>15</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

*must be passed with a grade of C or higher*

- MATH 122 or MATH 141
- STAT 206
SCI – Scientific Literacy (7 hours)
- Two approved Carolina Core Scientific Literacy courses (p. 743), including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Students shall demonstrate in one Foreign Language the ability to comprehend the topic and the main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (40 hours)
must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 225</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 226</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 324</td>
<td>Survey of Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>BADM 301</td>
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</tr>
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<td>3</td>
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</tr>
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<td>Introduction to Finance</td>
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</tr>
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<td>3</td>
</tr>
<tr>
<td>MGSC 290</td>
<td>Computer Information Systems in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 291</td>
<td>Applied Statistics for Business</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 395</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>40</td>
</tr>
</tbody>
</table>

3. Program Requirements (27-36 hours)

Supporting Courses (0-6 hours)
must be passed with a grade of C or higher

Upper-Level Business Electives: Students with a single major in Marketing must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.

Minor or Directed Coursework (minimum of 18 hours)
Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.

Electives (3-12 hours)
All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. MATH 111 or STAT 110). Students are strongly encouraged to take a business section of UNIV 101 to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.

4. Major Requirements (15 hours)

a minimum grade of C is required in all major courses

Major Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MKTG 351</td>
<td>Consumer Behavior</td>
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</tr>
<tr>
<td>MKTG 352</td>
<td>Principles of Marketing Research</td>
<td>3</td>
</tr>
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<td>MKTG 465</td>
<td>Marketing Strategy and Planning</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
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</tr>
</tbody>
</table>

Major Electives (6 hours)

Select six hours of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 445</td>
<td>Sales Strategy</td>
</tr>
<tr>
<td>MKTG 446</td>
<td>Sales Automation and Customer Management</td>
</tr>
<tr>
<td>MKTG 447</td>
<td>Pricing Strategy and Analytics</td>
</tr>
</tbody>
</table>
Learning Outcomes

- To gain an understanding of the concepts and tools needed for the design, management, and improvement of operations and business processes in individual organizations.
- To gain an understanding of global sourcing strategies.
- To gain an understanding of various supply chain management strategies and techniques.
- To manage and improve operational processes.
- To gain experience applying GSCOM knowledge and skills to real world organizations.

Internationalization Requirement

The program also requires 9 hours of course work with international content that may be used to fulfill other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

- **Language:** Two language courses at the 200 level or above or
- **Electives:** Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

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UofSC credit hour, and have completed calculus with a minimum grade of C. Internal transfers will only be considered for admission in the fall term.

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Degree Requirements (123 hours)
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1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

- MATH 122 or MATH 141
- STAT 206

SCI – Scientific Literacy (7 hours)

- Two approved Carolina Core Scientific Literacy courses (p. 743), including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

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- CC-GFL courses (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

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2. College Requirements (40 hours)

must be passed with a grade of C or higher

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<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 40

3. Program Requirements (27-36 hours)

Supporting Courses (0-6 hours)

must be passed with a grade of C or higher

Upper-Level Business Electives: Students with a single major in Operations and Supply Chain must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing.
Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.

**Minor or Directed Coursework (minimum of 18 hours)**

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**Electives (3-12 hours)**

All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. MATH 111 or STAT 110). Students are strongly encouraged to take a business section of UNIV 101 to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.

4. **Major Requirements (16 hours)**

_a minimum grade of C is required in all major courses_

**Major Courses (16 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGSC 485</td>
<td>Business Process Management</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 495</td>
<td>Supply Chain Planning and Execution</td>
<td>4</td>
</tr>
<tr>
<td>or MGSC 497</td>
<td>GSCOM Capstone Project</td>
<td></td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>MGSC 486</td>
<td>Service Operations Management</td>
<td></td>
</tr>
<tr>
<td>MGSC 487</td>
<td>Global Sourcing Strategies and Application</td>
<td></td>
</tr>
<tr>
<td>MGSC 491</td>
<td>Supply Chain Management</td>
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</tr>
<tr>
<td>MGSC 492</td>
<td>Logistics, Transportation and Distribution</td>
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</tr>
<tr>
<td>MGSC 498</td>
<td>Project Management for Business</td>
<td></td>
</tr>
<tr>
<td>MGSC 488</td>
<td>Innovation and Design</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**  16

Note: Students must apply for placement into MGSC 495 and MGSC 497 through a competitive application process.

**Business Analytics Concentration (12 hours) optional**

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

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<tr>
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<th>Title</th>
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<tr>
<td>MGSC 394</td>
<td>Data Analytics for Business</td>
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</tr>
<tr>
<td>Select nine hours from the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
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</tbody>
</table>

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**Operations and Supply Chain, B.S.B.A.**

**Real Estate, B.S.B.A.**

**Learning Outcomes**

- Students will understand the importance and role of real estate in local and national economies.
- Students will be able to identify key driving forces of the real estate market.
- Students will be able to analyze real estate investment cash flows and make real estate investment decisions based on net present value or the internal rate of return.
- Students will understand and be able to analyze mortgage contracts taking the perspective as a borrower, a lender, and an investor.
- Students will be able to understand the basic trade-off in debt versus equity finance in real estate.
- Students will be able to understand the basics of securitization and be able to analyze simple mortgage-backed securitization deals.

**Internationalization Requirement**

The program also requires 9 hours of course work with international content that may be used to fulfill other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

- **Language:** Two language courses at the 200 level or above or
• **Electives:** Two approved courses with international content taken either inside or outside the Moore School of Business from a list available in the undergraduate office.

## Admissions

### Entrance Requirements

In addition to the academic admission requirements of the Moore School of Business stated below, a limit on admission to the program may be imposed. An enrollment limit would become necessary if enrollment levels exceed school staffing capabilities and resources. The Undergraduate Admissions Committee, in consultation with the dean of the school, shall be responsible for adjusting undergraduate enrollment levels to ensure the quality of the undergraduate program. A student who meets admissions criteria will be favorably considered, but because of space limitations admission cannot be guaranteed. Once minimum criteria are met, all qualified applicants are placed into an admissions group and are ranked by academic credentials. Based on the number of available seats, students are admitted in ranked order until capacity is reached. The Moore School only considers new applicants for Fall Term admission.

**Freshmen** entering the UofSC Columbia Pre-Business division of the Moore School of Business must meet the campus requirements for admission. Freshmen applicants will only be considered for Fall Term admission.

**Students from other UofSC campuses** who have no work from colleges outside of UofSC must have a minimum cumulative Institution GPA of 3.25, have taken at least 15 UofSC credit hours, and have completed calculus with a minimum grade of C. Additionally, those students who have fewer than 30 semester hours from colleges outside UofSC must also meet Columbia campus freshman admission requirements. Change of campus applicants will only be considered for Fall Term admission.

**Students enrolled in other colleges on the Columbia campus** must have a minimum cumulative Institution GPA of 3.25, must have at least 15 UofSC credit hours, and have completed calculus with a minimum grade of C. Internal transfers will only be considered for admission in the fall term.

**Transfer students from other institutions** must present a minimum cumulative GPA of 3.25 on all college work taken and have completed calculus with a minimum grade of C. Students who have taken fewer than 30 semester hours of college work must also meet Columbia campus freshman admission requirements. External transfers will only be considered for Fall Term admission.

## Degree Requirements (122 hours)

See Darla Moore School of Business (p. 306) for progression requirements and other regulations.

### Program of Study

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<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>40</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>27-36</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>15</td>
</tr>
</tbody>
</table>

1. **Carolina Core Requirements (31-43 hours)**

   **CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

   *must be passed with a grade of C or higher*
   
   - ENGL 101
   - ENGL 102

   **ARP – Analytical Reasoning and Problem Solving (6-7 hours)**

   *must be passed with a grade of C or higher*
   
   - MATH 122 or MATH 141
   - STAT 206

   **SCI – Scientific Literacy (7 hours)**

   - Two approved Carolina Core Scientific Literacy courses (p. 743), including one laboratory course

   **GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

   Students shall demonstrate in one Foreign Language the ability to comprehend the topic and the main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.

   - CC-GFL courses (p. 743)

   **GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

   - any CC-GHS course (p. 743)

   **GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

   - any CC-GSS course (p. 743)

   **AIU – Aesthetic and Interpretive Understanding (3 hours)**

   - any CC-AIU course (p. 743)

   **CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)**

   - any overlay or stand-alone CC-CMS course (p. 743)

   **INF – Information Literacy (0-3 hours)**

   - any overlay or stand-alone CC-INF course (p. 743)

   **VSR – Values, Ethics, and Social Responsibility (0-3 hours)**

   - any overlay or stand-alone CC-VSR course (p. 743)
1 Carolina Core Stand Alone or Overlay Eligible

Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (40 hours)
must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>Introduction to Financial Accounting</td>
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</tr>
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<td>3</td>
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<td>Professional Communication</td>
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</tr>
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<td>3</td>
</tr>
<tr>
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<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 40

3. Program Requirements (27-36 hours)

Supporting Courses (0-6 hours)
must be passed with a grade of C or higher

Upper-Level Business Electives: Students with a single major in Real Estate must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.

Minor or Directed Coursework (minimum of 18 hours)

Minors (non-business) may be selected from a University-wide list of approved minors. The minor is normally a minimum of 18 hours of prescribed courses in one subject area. Students not selecting such a minor may submit an alternative program of study to satisfy the directed coursework requirement. All alternative programs of study are subject to approval by the Undergraduate Program Faculty Committee in coordination with the Undergraduate Division. All minor courses or directed coursework must be passed with a grade of C or better.

Electives (3-12 hours)

All students must complete 3 hours of electives, not to include coursework in PEDU or MATH/STAT below the Moore School minimum requirements (ex. MATH 111 or STAT 110). Students are strongly encouraged to take a business section of UNIV 101 to fulfill this elective. Additional electives may be needed if a student exempts the foreign language requirement or fulfills Carolina Core requirements with overlay courses. Those credit hours must be replaced with additional elective credits.

4. Major Requirements (15 hours)
a minimum grade of C is required in all major courses

Major Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 366</td>
<td>Introduction to Real Estate and Urban Development</td>
<td>3</td>
</tr>
<tr>
<td>FINA 466</td>
<td>Real Estate Investment Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>FINA 467</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 9

Major Electives (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FINA 365</td>
<td>Corporate Financial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FINA 465</td>
<td>Commercial Bank Practice and Policy</td>
<td></td>
</tr>
<tr>
<td>FINA 469</td>
<td>Investment Analysis and Portfolio Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:                                |         |
| FINA 367 | Real Estate Market Analysis                |         |
| FINA 468 | Real Estate Appraisal                     |         |
| FINA 480 | Global Real Estate Capital Markets        |         |

Total Credit Hours 6

Business Analytics Concentration (12 hours) optional

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MGSC 394</td>
<td>Data Analytics for Business</td>
<td>3</td>
</tr>
<tr>
<td>Select nine hours of the following:</td>
<td></td>
<td></td>
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<tr>
<td>ACCT 404</td>
<td>Accounting Information Systems I</td>
<td>9</td>
</tr>
<tr>
<td>ECON 436</td>
<td>Introductory Econometrics</td>
<td></td>
</tr>
<tr>
<td>FINA 444</td>
<td>Corporate Risk Management</td>
<td></td>
</tr>
<tr>
<td>FINA 469</td>
<td>Investment Analysis and Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>FINA 472</td>
<td>Student-Managed Investments</td>
<td></td>
</tr>
<tr>
<td>IBUS 430</td>
<td>Research in International Business</td>
<td></td>
</tr>
<tr>
<td>MGMT 425</td>
<td>Analytics for the Human Resources Professional</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 390</td>
<td>Business Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGSC 486</td>
<td>Service Operations Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 352</td>
<td>Principles of Marketing Research</td>
<td></td>
</tr>
<tr>
<td>MKTG 447</td>
<td>Pricing Strategy and Analytics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 12

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.
Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Real Estate, B.S.B.A.

Risk Management and Insurance Minor

Please note that the Risk Management and Insurance Minor is open to Actuarial Math and Statistics majors only.

Minor Requirements
Prerequisite Course (3 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 221</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
<tr>
<td>FINA 471</td>
<td>Derivative Securities</td>
<td>3</td>
</tr>
<tr>
<td>FINA 475</td>
<td>Fixed Income Securities</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>18</td>
</tr>
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</table>

Additional courses of interest may include:

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<td>3</td>
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</table>

Risk Management and Insurance, B.S.B.A.

Learning Outcomes

- Students will understand and apply the processes for identifying risk and measuring risk, as well as the various methods for managing risk (e.g., mitigation, insurance, diversification and hedging).
- Students will understand the conditions that hinder the trading/sharing of risk, including correlation in outcomes, moral hazard, adverse selection, and transaction costs.
- Students will understand and apply the models for pricing insurance products.
- Students will understand the institutional context in which insurance is sold, including regulation, ownership structure, and marketing channels.

Internationalization Requirement

The program also requires 9 hours of course work with international content that may be used to fulfill other degree requirements. Three hours must be taken from an approved list of courses offered by the Moore School of Business which contain international business or international economics content. The following course options can also be used to satisfy the 3 credit hours of this requirement: approved course work containing international business or international economics content, taken at a semester abroad program; an approved Maymester or summer overseas course containing international business or international economics content; an approved internship course in international business wherein a student would obtain discipline-related work experience in a foreign country; or an approved service-learning component. Students may choose from one of the following options to complete the remaining 6-hour requirement:

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- MATH 122 or MATH 141
- STAT 206

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- Two approved Carolina Core Scientific Literacy courses (p. 743), including one laboratory course

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- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

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- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

2. College Requirements (40 hours)

must be passed with a grade of C or higher

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</table>

Total Credit Hours 40

3. Program Requirements (27-36 hours)

Supporting Courses (0-6 hours)

must be passed with a grade of C or higher

Upper-Level Business Electives: Students with a single major in Risk Management and Insurance must complete additional upper level (300-level or above) business/economics course work (in ACCT, ECON, FINA, IBUS, MGMT, MGSC, or MKTG) for a total of 21 hours of Upper-Level Business courses, which include major hours. Students must meet prerequisites to take the business elective of their choosing. Students may choose to double major or pursue a business analytics concentration in place of Upper-Level Business Electives.

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**Electives (3-12 hours)**

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**4. Major Requirements (15 hours)**

*A minimum grade of C is required in all major courses.*

**Major Courses (6 hours)**

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<tr>
<th>Course</th>
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</thead>
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<tr>
<td><strong>Total Credit Hours</strong></td>
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<td><strong>6</strong></td>
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**Major Electives (9 hours)**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Select three of the following:</td>
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</tr>
<tr>
<td>FINA 442</td>
<td>Life and Health Insurance</td>
<td></td>
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<td>FINA 443</td>
<td>Property and Liability Insurance</td>
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<td>FINA 444</td>
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<tr>
<td>FINA 445</td>
<td>Employee Benefits</td>
<td></td>
</tr>
<tr>
<td>FINA 446</td>
<td>Insurance Operations</td>
<td></td>
</tr>
<tr>
<td>FINA 490</td>
<td>Special Topics in Finance</td>
<td></td>
</tr>
<tr>
<td>ECON 531</td>
<td>Health Economics</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

1 Depending on the semester or nature of the project, FINA 490 may or may not be applicable to the Risk Management and Insurance major. Please consult your advisor to determine if it is applicable in the semester you wish to enroll in the project course.

**Business Analytics Concentration (12 hours) optional**

Please consult with your Academic Advisor or department on the courses recommended for individual majors. The analytics concentration must be taken in conjunction with a major. The department may add additional electives to the Business Analytics Concentration, subject to the approval of the Business Analytics Task Force.

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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGSC 394</td>
<td>Data Analytics for Business</td>
<td>3</td>
</tr>
<tr>
<td>Select nine of the following:</td>
<td></td>
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<tr>
<td>ACCT 404</td>
<td>Accounting Information Systems I</td>
<td></td>
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<tr>
<td>ECON 436</td>
<td>Introductory Econometrics</td>
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<tr>
<td>FINA 444</td>
<td>Corporate Risk Management</td>
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<tr>
<td>FINA 469</td>
<td>Investment Analysis and Portfolio Management</td>
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<tr>
<td>FINA 472</td>
<td>Student-Managed Investments</td>
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<tr>
<td>IBUS 430</td>
<td>Research in International Business</td>
<td></td>
</tr>
</tbody>
</table>

MGMT 425 Analytics for the Human Resources Professional
MGSC 390 Business Information Systems
MGSC 486 Service Operations Management
MKTG 352 Principles of Marketing Research
MKTG 447 Pricing Strategy and Analytics

**Total Credit Hours**

12

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

COLLEGE OF EDUCATION

Jon E. Pedersen, Dean
Thomas E. Hodges, Executive Associate Dean for Faculty and Academic Affairs
Michelle L. Bryan, Chief Equity Officer & Associate Dean for Diversity, Equity and Inclusion
Rob L. Deadmon, Assistant Dean for Enrollment Management and Academic Program Development
Ryan Inzana, Assistant Dean for Business Operations and Chief Financial Officer
Cindy Van Buren, Assistant Dean for Professional Partnerships

Overview

The College of Education is the anchor of the Professional Education Unit (PEU) of the University of South Carolina, which is accredited by the Council for the Accreditation of Educator Preparation (CAEP). In cooperation with the five other colleges/schools of the PEU and our public school partners, the College of Education offers education programs that are designed to develop collaborative educational leaders, including educators’ commitment to integrity, intellectual spirit, justice, and stewardship of schools. All University teacher education programs support prospective teachers in developing both in-depth content knowledge and appropriate knowledge, skills, and dispositions of teaching required in today’s classrooms. Extensive clinical experiences in a variety of appropriate PreK-12 classrooms and schools are a central component of each program.

The College of Education offers undergraduate degrees that lead to certification in early childhood (PreK-grade 3), elementary (grades 2-6), middle level (grades 5-8), and physical education (grades K-12).

Undergraduate teacher preparation programs outside the College of Education include K-12 music education (options in choral or instrumental) in the School of Music; and K-12 programs of art education, dance (concentration in dance education), and foreign language (teacher education options in Classics, French, German, and Spanish) in the College of Arts and Sciences.

Five-year undergraduate/graduate teacher preparation programs are offered in four areas of secondary education: English, mathematics, science, and social studies. Students pursue undergraduate degree programs in the discipline they wish to teach. Students should consult an advisor in the appropriate Arts and Sciences department for program information. Required undergraduate education courses for students pursuing certification in the five-year program include EDFI 300, EDSE 502, EDSE 500, and EDPY 401. Students pursuing English certification must also include EDSE 547 in their undergraduate course work. Students seeking certification also complete a fifth-year Master of Teaching degree. Students must apply for and be admitted to the graduate program. Students are not admitted to the master’s degree program solely by reason of their completion of the undergraduate degree.

Graduate initial teacher certification programs, including the M.A.T. in Special Education and many other areas, are described in the Graduate Studies Bulletin.

Admission to the Professional Program

All University teacher education students must apply and be admitted to Professional Program/Internship at mid-point(s) in their programs prior to final internship (i.e., student teaching). Requirements for admission vary by program, but for undergraduate students include 60 credit hours with a minimum overall GPA of 2.75, successful completion of a state-approved basic skills examination, and courses as specified by program area.

Students should contact their program area or the College of Education Office of Student Affairs for specific requirements and application deadlines.

Certification

To receive a recommendation for initial teacher certification, all University teacher education students must complete appropriate degree(s) and pass assessments required by the South Carolina Board of Education. Inasmuch as degree and certification requirements are linked, if state regulations change, degree requirements are also subject to change.

All students seeking a recommendation for initial teacher certification must:

1. successfully complete the requirements of the degree program;
2. achieve test scores at or above the level established by the state on the program-appropriate exams (Praxis II series) and submit scores to the Office of Student Affairs, College of Education, Wardlaw 113, and to the S.C. Department of Education;
3. submit to an FBI and SLED check for prior felony convictions prior to full-time clinical experience;
4. pay all certification fees as required;
5. successfully complete EEDA and ADEPT requirements with a positive recommendation for certification.

Information

Information regarding all programs in the College of Education and the education requirements for all teacher preparation programs are available online (https://sc.edu/study/colleges_schools/education/) or by contacting the Office of Student Affairs, College of Education, Wardlaw 113, 803-777-6732.

Minors in Education

Students completing degrees outside the College of Education who wish to include an education minor must contact their undergraduate dean’s office for prior approval.

Departments

- Educational Leadership and Policies (p. 335)
- Educational Studies (p. 335)
- Instruction and Teacher Education (p. 338)
- Physical Education (p. 358)

Counselor Education Minor

Minor Requirements (18 Hours)

The Counselor Education minor requires:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCE 502</td>
<td>Guidance Techniques for Classroom Teachers</td>
<td>3</td>
</tr>
<tr>
<td>EDCE 503</td>
<td>Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDCE 510</td>
<td>Introduction to Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDCE 570</td>
<td>Seminar in Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>
**Experiential Learning:**
Engagement Leadership Experiences by identifying and applying selected management techniques.

To help teachers, principals, and other personnel solve school problems, the PK-20 continuum (pre-school through higher education) is covered.

**Policy issues affecting public and private educational institutions across topics in higher education and student affairs administration.**

**The course is designed to provide opportunities for the study of special topics in higher education and student affairs administration.**

**EDP 517 - Law and Policy Studies in Education (3 Credits)**
Policy issues affecting public and private educational institutions across the PK-20 continuum (pre-school through higher education).

**EDP 520 - The Teacher as Manager (3 Credits)**
To help teachers, principals, and other personnel solve school problems by identifying and applying selected management techniques.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

**Experiential Learning:** Experiential Learning Opportunity

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**Education Minor**

**Minor Requirements (18 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
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</tr>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDPY 401</td>
<td>Learners and the Diversity of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 517</td>
<td>Law and Policy Studies in Education</td>
<td>3</td>
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<tr>
<td>EDFI 361</td>
<td>Comparative and International Education</td>
<td>3</td>
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<tr>
<td><strong>Select two additional courses from the following:</strong></td>
<td>6</td>
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</tr>
<tr>
<td>Students intending to complete the 5th-year Master of Teaching program for secondary education must complete the following two courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDFI 361</td>
<td>Comparative and International Education</td>
<td>3</td>
</tr>
<tr>
<td>All other students take the following two courses to complete the minor:</td>
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</tr>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDFI 361</td>
<td>Comparative and International Education</td>
<td>3</td>
</tr>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDFI 361</td>
<td>Comparative and International Education</td>
<td>3</td>
</tr>
<tr>
<td>EDE 205</td>
<td>Global Citizenship and Social Responsibility through Education</td>
<td>3</td>
</tr>
<tr>
<td>EDEX 205</td>
<td>Understanding the Foundations of Disability</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td>18</td>
</tr>
</tbody>
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**Educational Leadership and Policies**

Department Website (https://sc.edu/study/colleges_schools/education/about/academic_departments)/

**Peter Moyi, Interim Chair**

**Courses**

**EDHE 600 - Special Problems in Higher Education and Student Affairs (1-3 Credits)**
The course is designed to provide opportunities for the study of special topics in higher education and student affairs administration.

**EDLP 517 - Law and Policy Studies in Education (3 Credits)**
Policy issues affecting public and private educational institutions across the PK-20 continuum (pre-school through higher education).

**EDLP 520 - The Teacher as Manager (3 Credits)**
To help teachers, principals, and other personnel solve school problems by identifying and applying selected management techniques.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

**Experiential Learning:** Experiential Learning Opportunity

**EDLP 525 - Resources for Teaching and Learning (3 Credits)**
An introduction to educational technology, its increasing importance in the total school program, and its relationship to learning theories and communication.

**EDLP 601 - The Effective Teacher (3 Credits)**
Use of theory and research to understand and improve classroom teaching. Emphasis on teacher reflection and decision-making. The administrative role in enhancing effectiveness is highlighted.

**EDLP 690 - Independent Study (1-3 Credits)**

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**Educational Studies**

Department Website (https://sc.edu/study/colleges_schools/education/about/academic_departments/)

Erik Drasgow, Chair

**Courses**

**EDCE 502 - Guidance Techniques for Classroom Teachers (3 Credits)**
A comparative study of the major theories in the field of family counseling.

**EDCE 503 - Family Counseling (3 Credits)**
The course is designed to provide counselors, teachers, and administrators with increased awareness of a wide variety of work experiences.

**EDCE 507 - Educators in Industry (3 Credits)**
Orientation to the profession of counseling including its historical, social, and cultural foundations. Declaration of the minor in counseling or admission to the Ed.S. in Counselor Education.

**EDCE 520 - Wellness and Mental Health (3 Credits)**
An overview of the characteristics of optimal holistic wellness and human functioning. Practical application of theoretically and empirically supported wellness models and interventions to enhance social, emotional, mental, physical, and spiritual well-being.

**EDCE 555 - Theory and Practice of College Mentoring (3 Credits)**
Emphasis on current professional approaches to college mentoring and development of leadership and mentoring skills. Students must participate in Minority Assistance Program. Upper division undergraduate standing or admission to a graduate program and consent of instructors.

**EDCE 570 - Seminar in Counseling (3 Credits)**
Declaration of the minor in counseling.

**EDCE 600 - Communication Skills in Counseling (3 Credits)**
Human relations principles applied to the counseling interview.

**EDCE 650 - Counseling Student Athletes (3 Credits)**
Issues facing student athletes regarding their personal and career development beyond athletics.

**Cross-listed course:** PEDU 660

**EDCE 690 - Independent Study (1-3 Credits)**

**EDET 603 - Design and Development Tools I (3 Credits)**
Study of multimedia elements (e.g., graphics, animation, audio, and video) including the creation and editing of materials. Instructional applications, copyright issues, and technology limitations will be explored.
EDET 650 - Internship in Educational Technology (3 Credits)
Supervised field-based experiences in the design, development, evaluation, and implementation of technology-based instructional and training projects.
Prerequisites: EDET 603, EDET 703, and EDET 722.

EDET 652 - Design and Evaluation of Games and Simulations (3 Credits)
Application of instructional design criteria to computer and noncomputer interactions. Analyses include requisite cognitive processes, affective outcomes, and ethical standards. Design and formative testing of interactive exercises.

EDEX 205 - Understanding the Foundations of Disability (3 Credits)
The role of historical events, politics, media, race, gender, and other issues in shaping how disability is viewed. A critical framework for understanding how disability is viewed in Western culture and the effects of those views on individuals with disabilities.

Carolina Core: GSS
EDEX 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research
EDEX 491 - Introduction to Inclusion of Students with Mild Disabilities (2 Credits)
Inclusion strategies and accommodation planning for students with mild disabilities in general education classrooms.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy
EDEX 523 - Introduction to Exceptional Children (3 Credits)
Overview of the field of education for exceptional children. Basic course for those entering the field of special education.

EDEX 525 - The Nature of Orthopedic and Special Health Problems (3 Credits)
Symptomatology, behavioral manifestations, and resources for care and treatment of orthopedic conditions and other types of health problems in children and youth.

EDEX 530 - Introduction to Early Childhood Special Education (3 Credits)
An overview of early childhood special education for young children with disabilities and their families.

EDEX 531 - Nature of Students with Specific Learning Disabilities (3 Credits)
Children with average/above average intelligence and specific learning impairments; diagnostic and remedial techniques. (Offered by both the College of Education and the Department of Psychology).
Prerequisites: EDEX 523 or PSYC 528.

Cross-listed course: PSYC 529
EDEX 540 - Nature and Needs of the Gifted and Talented (3 Credits)
Types and characteristics of the gifted and talented.
Prerequisites: EDEX 523 or PSYC 518.

EDEX 580 - Direct Instruction in Reading for At-Risk Learners (3 Credits)
A study of the skills and knowledge required to implement direct instruction procedures when teaching reading, with opportunity for application of skills. Research and theoretical foundations will also be evaluated.
Prerequisites: EDEX 523.

EDEX 581 - Teaching Reading in the Content Area to Adolescents with Reading Disabilities (3 Credits)
Research, theory, and instructional practices related to providing reading instruction in content areas for youth with disabilities, with a focus on developing disciplinary literacy in inclusive settings.

EDEX 582 - Teaching Mathematics to Students at Risk (3 Credits)
Research, theory, and instructional practices related to mathematical readiness and instruction for children and youth at risk for mathematical difficulties.
Prerequisites: EDEX 523 or EDEX 491.

EDEX 610 - Instruction of Students with Severe and Multiple Disabilities (3 Credits)
Data-based instruction for teaching students with significant disabilities: task and developmental analysis, individualizing instruction, and preparing and implementing instructional programs.
Prerequisites: EDEX 523 or PSYC 528.

EDEX 615 - Curriculum and Language Instruction for Students with Severe and Multiple Disabilities (3 Credits)
Design, development, adaptation, and implementation of curriculum, language and communication instruction for students with significant disabilities.
Prerequisites: EDEX 523 or PSYC 528.

EDEX 616 - Instruction of Students with Specific Learning Disabilities (3 Credits)
Theory and application of current evidence-based procedures for teaching children with specific learning disabilities.
Prerequisites: EDEX 523, EDEX 531, or EDEX 632 or equivalent.

EDEX 619 - Nature of Students with Intellectual Disabilities (3 Credits)
Nature and causes of intellectual disabilities, behavior, and potentialities of persons with intellectual disabilities.
Prerequisites: a course in the areas of child psychology or child development.

EDEX 630 - Educational Procedures for Early Childhood Special Education (3 Credits)
An initial course in educational procedures focusing on intervention strategies for serving young children with disabilities in inclusive environments.
Prerequisites: EDEX 530.

EDEX 632 - Nature of Students with Emotional and Behavior Disabilities (3 Credits)
Characteristics, etiology, and major theoretical models for children experiencing emotional and/or behavioral problems in school; special education curriculum, programming alternatives, assessment, and issues concerning this population.
Prerequisites: EDEX 523 or PSYC 528.

EDEX 640 - Managing Problem Behavior in the Classroom (3 Credits)
The development of a workable approach to classroom management through an examination of a research-based synthesis of current knowledge in classroom and behavior management.

EDEX 643 - Social/Emotional Development and Guidance for Young Children with Developmental Delays (3 Credits)
Prerequisites: EDEX 523.
EDEX 646 - Advanced Procedures for Assessment in Early Childhood Special Education (ECSE) (3 Credits)
Advanced assessment methods for serving young children with and without developmental delays and their families.
Prerequisites: EDEX 530.

EDEX 670 - Nature of Students with Multi-categorical Disabilities (3 Credits)
Personal, social, and educational implications of a mild to moderate multi-categorical disability (emotional/behavioral, intellectual, and learning disabilities) throughout the lifespan of an individual.
Prerequisites: C or better in EDEX 523.

EDEX 671 - Instruction of Students with Multi-categorical Disabilities (3 Credits)
Theory and application of current evidence-based procedures for teaching children with mild to moderate multi-categorical disabilities.
Prerequisite or Corequisite: C or better in EDEX 670.

EDEX 682 - Introduction to Braille (3 Credits)
Basic course for mastery of the literary braille code. Transcription of instructional materials in literary braille.

EDEX 685 - Nature of Students with Visual Disabilities (3 Credits)
The psychological, social, and educational implications for persons with visual disabilities; definitions, incidence, characteristics of, and rehabilitative and educational programs for persons with visual disabilities.

EDEX 686 - Introduction to Deafness (3 Credits)
Educational implications of philosophy, theory, and research about deafness.
Prerequisites: EDEX 523 or equivalent.

EDEX 687 - Communication Systems for Students who are Deaf or Hearing Impaired (3 Credits)
Knowledge and basic skills of finger-spelling and sign forms for communication.

EDEX 690 - Independent Study (1-3 Credits)

EDEX 691 - Collaborative Partnerships in PK-12 Special Education (3 Credits)
Communication and collaboration skills and strategies for creating and maintaining effective partnerships with a variety of stakeholders involved in educating students with disabilities in PK-12 settings.
Prerequisites: EDEX 523 or PSYC 528.

EDEX 692 - Partnerships in Early Childhood Special Education (3 Credits)
Strategies for collaborating and communicating with families and other professionals as members of multidisciplinary teams in Early Intervention and Early Childhood Special Education.
Prerequisites: EDEX 523.

EDFI 300 - Schools in Communities (3 Credits)
Social, political, and historical aspects of diverse educational institutions in American culture with an emphasis on families, schools, and communities. Sophomore standing.
Graduation with Leadership Distinction: GLD: Community Service

EDFI 321 - Dynamics of American Public Education (3 Credits)
Extensive treatment of the social, political, economic, and philosophical influences that have shaped public education. Analysis of the financial, organizational, and legal aspects of education. Library assignments provide a working knowledge of professional standard references and journals. Junior or higher standing.

EDFI 350 - Antiracist Education (3 Credits)
Basic concepts, issues, and practices of antiracist education. Topics include individual and institutional racism, overt and covert racism, curriculum, textbooks, power relationships, teacher-student relationships, and privacy.
Cross-listed course: AFAM 350
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

EDFI 357 - Sociology of Education (3 Credits)
Analysis of educational institutions, organizations, processes, and their effects in contemporary society.
Prerequisites: SOCY 101.

Cross-listed course: SOCY 357
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

EDFI 361 - Comparative and International Education (3 Credits)
Understanding of schooling in a global society. An introduction to comparative and international education and its major theories practices and research methodologies with an examination of educational issues, levels and system in a variety of cultural contexts and countries.

EDFI 399 - Independent Study (3 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

EDFI 523 - History of Educating Exceptional Children (3 Credits)
Prerequisites: EDFI 300, EDFI 321.

EDFI 530 - Antiracist Education (3 Credits)
Basic concepts, issues, and practices of antiracist education. Topics include individual and institutional racism, overt and covert racism, curriculum, textbooks, power relationships, teacher-student relationships, and privacy.
Cross-listed course: AFAM 350
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

EDFI 557 - Sociology of Education (3 Credits)
Analysis of educational institutions, organizations, processes, and their effects in contemporary society.
Prerequisites: SOCY 101.

Cross-listed course: SOCY 357
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

EDPY 333 - Introduction to Child Growth and Development (3 Credits)
Basic course designed to familiarize the prospective teacher with the patterns of social, emotional, physical, and intellectual growth of the individual. Development of these growth patterns from the prenatal stage to the onset of adolescence.

EDPY 334 - Introduction to Adolescent Growth and Development (3 Credits)
Basic course designed to familiarize the prospective junior and senior high school teacher with the pattern of social, emotional, physical, and intellectual growth of the individual during his adolescent years. Recommendation of the advisor(s) required.

EDPY 335 - Introduction to Educational Psychology (3 Credits)
Applications of the psychology of learning and development. Special attention to basic statistics and the behavior of the school child.

EDPY 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research
EDPY 401 - Learners and the Diversity of Learning (3 Credits)
Overview of psychological theories and research as it applies to education, including theories of learning, child and adolescent development, cognitive processes, classroom practices, individual differences/student diversity, and motivation.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

EDPY 401P - Practicum: Learners and the Diversity of Learning (1 Credit)
Field experience integrated with course on lifespan development and learning with an emphasis on individual and group diversity.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDPY 644 - Free-Choice Learning and Informal Learning Environments (3 Credits)
Examines free-choice (or informal) learning and the characteristics of settings and activities outside of formal schooling that effectively promote learning and development.

EDPY 690 - Independent Study (3-15 Credits)

EDUC 110 - USC Teaching Fellows Leadership Seminar (0 Credits)
A resource for members of the Teaching Fellows Program to successfully complete yearly program requirements. Topics include: qualities of an effective teacher, how to give constructive classroom feedback, students' needs decision making, leadership styles, valuing diversity, and factors that influence/contribute to effective teacher leadership. Restricted to students enrolled in the USC Teaching Fellows Program. Instructor permission only.

EDUC 360 - Global and Multicultural Perspectives on Education in International Settings (3 Credits)
Study abroad course in which students apply social science knowledge and analytical methods to understand the ways in which culture, society, politics, and global forces affect education and schooling in diverse international settings. May be repeated as content varies by destination.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

EDUC 610 - Case Study in Classroom Management (3 Credits)
Case study in the clinical application of pedagogy and methods related to classroom management, including relational, procedural and instructional aspects of a classroom management approach.

EDUC 632 - Field Problems in Education I (1-3 Credits)
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

EDUC 633 - Field Problems in Education II (1-3 Credits)
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

EDUC 634 - Field Problems in Education III (1-3 Credits)
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

EDUC 635 - Field Problems in Education IV (1-3 Credits)
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

EDUC 635A - T: Common Core: Math Standards (3 Credits)

EDUC 654 - Assessment of Reading (3 Credits)

Instruction and Teacher Education

Department Website (https://sc.edu/study/colleges_schools/education/about/academic_departments/)

Fenice Boyd, Chair

The Department of Instruction and Teacher Education offers degree programs in early childhood, elementary, and middle level education.

Entrance Requirements

New freshmen who meet University admissions standards are eligible for admission to early childhood, elementary, or middle level degree programs offered by the College of Education. To transfer into one of these degree programs, students must have a minimum overall cumulative 2.5 GPA. Students with less than 30 semester hours completed must also meet freshman admission requirements. Note: To be eligible for progression into the Professional Program in Education, student must achieve a minimum 2.75 overall GPA.

Progression Requirements

To remain in the early childhood, elementary, or middle level degree programs offered by the College of Education, a student must make satisfactory progress toward the degree. A student who fails to make satisfactory progress, as identified in each program area, may be placed on an Action Plan or deemed ineligible to progress in the program in which enrolled. An Action Plan will be written that describes specific goals, actions, and criteria which the student must meet in order to be eligible to progress. Students may repeat one time only, one course offered through a department in the College of Education for which an unsatisfactory grade was earned. Students who earn more than one unsatisfactory grade in an Education course will no longer be eligible to progress in the program.

Any student who fails to meet a progression requirement to continue in an undergraduate program in the College of Education and wishes to transfer to a different major in the Department of Instruction and Teacher Education must petition the new program and be approved for admission by the faculty of the program.
Additionally, all students in the college are subject to the regulations on probation, suspension, and readmission in the section of this bulletin titled “Academic Regulations” under the heading “Academic Standards Policies.”

Professional Program
Admission to the professional program in early childhood, elementary, or middle level education is granted by the dean of the College of Education and constitutes the first “midpoint” review in each respective assessment system. Professional program and internship admission requirements can be found in the description of each program area.

Exit Requirements
1. Successfully complete all degree requirements.
2. Complete and submit an application for graduation to the College of Education’s Office of Student Affairs early in the last semester of the senior year. Students should consult the official University calendar for the specific date that the application is due.

Early Childhood Education
The Department of Instruction and Teacher Education offers a program leading to a B.A. degree in early childhood education. Students successfully completing all certification requirements are eligible to apply for a professional credential to teach preschool through grade 3.

The Early Childhood Education Professional Program
Upon completion of 60 semester hours of course work, including courses specified by the program area, the candidate may apply for admission to the Professional Program in Early Childhood Education.

For admission to the professional program, the candidate must:
1. meet the state basic skills testing requirement;
2. pass the USC Education and Economic Development Act Assessment;
3. achieve an overall GPA of 2.75;
4. achieve a GPA of 3.00 or higher and no grade lower than C in education courses and field experiences;
5. earn a grade of C or better in specific course work as required by the program area.

The Early Childhood Internship Admission Requirements
For admission to the internship semesters, the candidate must:
1. be admitted to the professional program;
2. achieve a minimum overall GPA of 2.75;
3. achieve a GPA of 3.00 or higher in all education course work;
4. achieve a grade of C or better in specific course work as required by the program area;
5. pass the USC Education and Economic Development Act Assessment;
6. pass the S.C. Department of Education’s Office of Student Affairs early in the last semester of the senior year. Students should consult the official University calendar for the specific date that the application is due.

Elementary Education
The Department of Instruction and Teacher Education offers a program leading to a B.A. degree in elementary education. Students successfully completing all degree and certification requirements are eligible to apply for a professional credential to teach grades 2 through 6.

The Elementary Education Professional Program
Upon completion of 60 semester hours of course work including courses specified by the program area, the candidate may apply for admission to the Professional Program in Elementary Education.

For admission to the professional program, the candidate must:
1. meet the state basic skills testing requirement;
2. pass the USC Education and Economic Development Act Assessment;
3. achieve an overall GPA of 2.75;
4. achieve a GPA of 3.00 or higher and no grade lower than C in education courses and field experiences;
5. earn minimum required grade in specific course work as required by the program area.

The Elementary Education Internship Admission Requirements
For admission to the senior internship semesters, the candidate must:
1. be admitted to the professional program;
2. achieve a minimum overall GPA of 2.75;
3. achieve a GPA of 3.00 or higher in all education course work;
4. achieve a grade of C or better in specific course work as required by the program area;
5. pass the USC Education and Economic Development Act Assessment;
6. pass the S.C. Department of Education’s Office of Student Affairs early in the last semester of the senior year. Students should consult the official University calendar for the specific date that the application is due.

Middle Level Education
The Department of Instruction and Teacher Education offers a program leading to a B.A. or B.S. degree in middle level education. Students successfully completing certification requirements are eligible to apply for a professional credential to teach grades 5 through 8.

For admission to the professional program, the candidate must:
1. meet the state basic skills testing requirement;
2. pass the USC Education and Economic Development Act Assessment;
3. achieve a GPA of 3.00 or higher in all education course work;
4. achieve a grade of C or better in specific course work as required by the program area;
5. pass the S.C. Department of Education by program deadline.

In addition to the above, for admission to EDEL 490 a GPA of 3.00 or higher is required in EDEL 440, EDEL 450, EDEL 460, EDEL 471 and EDRD 431.

The Middle Level Education Professional Program
Upon completion of 60 semester hours of course work, including the completion of the 9-semester-hour education core (EDTE 201, EDFI 300, and EDPY 401), the candidate may apply for admission to the Professional Education Program in Middle Level Education. For admission to the professional program the candidate must have:
1. successfully meet the state basic skills testing requirement;
2. pass the USC Education and Economic Development Act Assessment;
3. achieve a minimum overall GPA of 2.75
4. achieve a GPA of 3.00 or higher and no grade lower than C in education courses and field experiences;
5. grade of C or better in specific course work as required by the program area.

**The Middle Level Internship Admission Requirements**

For admission into EDML 598 Internship A in the Middle School, a candidate must:

1. be admitted to the professional program;
2. complete EDML 321;
3. earn a grade of C or better in specific course work as required by the program area;
4. complete EDTE 522;
5. earn a grade of C or better in specific course work as required by the program area;
6. comply with criminal background check and health screening requirements.

For admission into EDML 599 Internship B in the Middle School, a candidate must:

1. be admitted to the professional program;
2. complete EDML 321;
3. earn a grade of C or better in specific course work as required by the program area;
4. complete four of the six courses in each of the two content areas.

**Programs**

- Early Childhood Education, B.A. (p. 346)
- Elementary Education, B.A. (p. 348)
- Middle Level Education, B.A. (p. 351)
- Middle Level Education, B.S. (p. 354)
- Secondary Education Mathematics Minor (p. 357)

**Courses**

**EDCS 625 - Solving Practical Problems in School Curriculum (3 Credits)**
An introduction to current and promising designs and approaches to curriculum development from grades K-12.

**EDCS 690 - Independent Study (1-3 Credits)**

**EDEC 201 - Inquiry into Early Childhood Education (3 Credits)**
Inquiry into the roles, programs, history, and culture trends in early childhood education.

**EDEC 250 - Play and Early Learning (3 Credits)**
Theory and practice related to children's play and early learning in family, community, and educational settings.

**EDEC 336 - Culturally Relevant Pedagogy in Early Childhood Classrooms (3 Credits)**
A study of the theoretical and practical foundations of effective teaching in diverse classroom environments. Ethnicity, gender, social class, religion and other issues are considered from multiple perspectives.

**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Global Learning

**EDEC 340 - The Young Child: Development, Care and Education (Birth to 3 years) (3 Credits)**
Infants' and toddlers' development and care from an ecological perspective. Assessment of children in various settings is emphasized.

**Corequisite:** EDEC 340P.

**EDEC 340P - The Young Child: Development, Care and Education (Birth to 3 years) Practicum (1 Credit)**
Practicum in infants' and toddlers' development and care observed and assessed from an ecological perspective. Includes service learning.

**Corequisite:** EDEC 340.

**EDEC 342 - The Young Child: Development, Care and Education (3-8 years) (3 Credits)**
Development of young children and its relationship to appropriate practice and curriculum with an emphasis on mathematics, science, and social studies.

**Prerequisites:** EDEC 340 and EDEC 340P.

**Corequisite:** EDEC 342, EDEC 344, EDEC 347 and EDRD 345.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Internships

**EDEC 344 - Supporting Linguistic Pluralism Across Content Areas (3 Credits)**
Introduction to issues, ideas, practices and policies in support of learning and teaching in multilingual classrooms, pre-K to grade 12 for undergraduate early childhood education majors. Early Childhood Majors Only.

**Corequisite:** EDEC 342, EDEC 342P, EDEC 347 and EDRD 345.

**EDEC 347 - Community of Learners and Classroom Management in Early Childhood (3 Credits)**
Methods of building a community of learners including child guidance and group management that foster the development of self-control and learning.

**Corequisite:** EDEC 342, EDEC 342P, EDEC 344 and EDRD 345.

**EDEC 441 - Teaching Mathematics in Early Childhood (3 Credits)**
Methods and materials in teaching and assessment in early childhood mathematics (prekindergarten-grade 3). Admission to Internship I.

**Corequisite:** EDEC 443.

**EDEC 442 - Teaching Science in Early Childhood Education (3 Credits)**
The study and practice of science education for pre-school and primary students focusing on appropriate content, goals and methods. Admission to internship in early childhood education.

**Corequisite:** EDEC 443.
EDEC 443 - Internship in Integrated Curriculum in Early Childhood Education (4 Credits)
Internship in developmentally and culturally appropriate content and pedagogy in language and literacy, mathematics, science, social studies, and fine arts for young children through grade 3. Admission to internship in early childhood education.
Corequisite: EDEC 441, EDEC 442 and EDRD 445.

EDEC 444 - Teaching Social Studies to Early Childhood Education (3 Credits)
The study and practice of Social Studies education for undergraduate majors in early childhood education. Early Childhood Majors Only.

EDEC 492 - Internship in Curriculum, Assessment, Teaching, and Professional Roles (9 Credits)
Internship for practice in classrooms appropriate to the level of certification sought (early childhood) related to professional roles. Admission to the Professional Program in Early Childhood Education.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
Experiential Learning: Experiential Learning Opportunity

EDEC 510 - Parent/Family Dynamics in Early Childhood Education (3 Credits)
Principles, practices, and content of family dynamics, including practicum/service learning.
Graduation with Leadership Distinction: GLD: Community Service

EDEC 540 - The Young Child: Behavior and Development in Early Childhood (3 Credits)
Service-learning and seminar experiences addressing intellectual, physical, social, and emotional development, prenatal through grade three, within an ecological context. Child’s critical thinking, creative expression, and diagnosis/assessment emphasized.

EDEC 546 - Education of Young Children: An Ecological Approach (3 Credits)
An ecological study with emphasis on home-school relations, parent involvement, and community resources. Multicultural perspectives and needs of exceptional children addressed.
Corequisite: EDEC 469.

EDEC 547 - Field Problems: Teaching Mathematics Using Manipulative Materials, Grades K-3 (3 Credits)
Instructional approaches and materials for teaching elementary school mathematics, grades K-3.

EDEC 570 - Internship in Environments for Teaching and Learning (3 Credits)
Internship for practice in classrooms appropriate to early childhood education related to curriculum design and assessment. Admission to the professional program in early childhood education.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDEC 591 - Seminar on Teaching in Early Childhood (3 Credits)
Exploration of the principles and theories about teaching and learning as they apply to early childhood education in the context of schools in democratic societies.
Prerequisites: admission to internship in early childhood education.
Corequisite: EDTE 590A, EDTE 590B, and EDTE 590C.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

EDEC 608 - Parent Involvement in Early Childhood Education (3 Credits)
Analysis of programs and practices for involving parents in early childhood educational settings. Emphasizes objectives, methods, techniques, and materials for program development. Community resources for supporting programs for children in various instructional settings.

EDEC 690 - Independent Study (1-3 Credits)

EDEL 305 - Nature and Management of Elementary Classrooms (3 Credits)
The learning environment to include diversity of students, instructional materials, classroom management, and communication patterns.
Prerequisites: EDPY 401, EDTE 201.

EDEL 306 - Culturally Sustaining Pedagogy for the Elementary Classrooms (3 Credits)
Theoretical and pedagogical approaches to Culturally Sustaining Pedagogy (CSP)—curriculum design tools and instructional strategies that reflect the diversity of students’ cultural backgrounds and languages in elementary classrooms.

EDEL 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

EDEL 405P - Practicum in Elementary Education (1 Credit)
Sequence of supervised field experiences in an assigned school setting.
Prerequisites: EDEL 301.

EDEL 440 - Elementary Mathematics Instruction (3 Credits)
Approaches, materials, and methods for teaching mathematics in elementary grades. Restricted to students in the BA program in elementary education.
Prerequisites: Admission to the professional program and MATH 221.

EDEL 441 - Introductory Elementary Internship (3 Credits)
Field experience requiring students to gradually assume the responsibilities of teaching in an assigned classroom under the guidance of an experienced teacher.
Corequisite: EDRD 430.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDEL 450 - Elementary Science Instruction (3 Credits)
Instructional approaches and methods for teaching science in elementary grades.
Prerequisites: Admission to the professional program.

EDEL 460 - Elementary Social Studies Instruction (3 Credits)
Instructional approaches, materials, and methods for teaching social studies in elementary grades. Restricted to students in the B.A. program in Elementary Education.

EDEL 470 - Directed Teaching in the Elementary and or Middle Schools (3 Credits)
Teaching and related experiences, including seminars and workshops. Admission to professional teacher certification program and completion of the elementary education core.
Prerequisites: EDRD 420.
EDEL 471 - Internship in Environments, Planning, and Motivation for Teaching and Learning (6 Credits)
Internship for practice in classrooms appropriate to elementary education related to curriculum design and assessment. Field experiences emphasize planning lessons that actively engage students in learning.
Prerequisites: Admission to the internship in elementary education.

EDEL 490 - Internship in Elementary Education (12 Credits)
Internship for practice in elementary classrooms (grades 2-6) related to curriculum design, assessment, interactive teaching, and professional roles.
Prerequisites: Admission to Internship II in Elementary Education.

Experiential Learning: Experiential Learning Opportunity

EDEL 490A - Internship in Curriculum and Assessment (4 Credits)
Internship for practice in elementary classrooms (grades 2-6) related to curriculum design and assessment.
Prerequisites: Admission to Internship II in Elementary Education.

Corequisite: EDEL 490B and EDEL 490C.

EDEL 490B - Internship in Teaching (4 Credits)
Internship for practice in elementary classrooms (grades 2-6) related to interactive teaching.
Prerequisites: Admission to Internship II in Elementary Education.

Corequisite: EDEL 490A and EDEL 490C.

EDEL 490C - Internship in Professional Roles (4 Credits)
Internship for practice in elementary classrooms (grade 2-6) related to professional roles.
Prerequisites: Admission to Internship II in Elementary Education.

Corequisite: EDEL 490A and EDEL 490B.

EDEL 491 - Seminar on Teaching (3 Credits)
Exploration of the principles and theories about teaching and learning as they apply to the field of practice in the context of schools in democratic societies.
Prerequisites: Admission to Internship in Elementary Education.

Corequisite: EDEL 490A, EDEL 490B, and EDEL 490C.

EDEL 505P - Inquiry Practicum: The Elementary School (1 Credit)
Identifying and understanding the various components of the elementary environment through the practice of inquiry through field-based experiences.
Corequisite: EDEL 305.

EDEL 506 - Integrated Curriculum in Elementary Schools (3 Credits)
Examining and practicing a variety of approaches that connect the content of different elementary school subjects.

EDEL 506P - Inquiry Practicum: Roles of Elementary Teachers (1 Credit)
Identifying and understanding the roles of elementary teachers through the practice of inquiry through field-based experiences.
Corequisite: EDEL 506.

EDEL 510 - Teaching Second Languages to Young Children (3 Credits)
To assist prospective teachers of young children in the development of a second language and multicultural learning activities. Practicum sessions are an integral part.
Prerequisites: 210 level of a foreign language or its equivalent.

Cross-listed course: FORL 510
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDEL 515 - Science in the Elementary School (3 Credits)
Reinforces the science background of prospective and practicing elementary teachers. Innovations are examined. Emphasis is placed on methods, materials, community resources, and evaluation procedures.

EDEL 544 - Modern Approaches to Mathematics Teaching (3 Credits)
Curriculum and pedagogy for mathematics topics taught in grades 3 through 8.

EDEL 548 - Field Problems: Teaching Mathematics Using Manipulative Materials, Grades 4-6 (3 Credits)
Instructional approaches and materials for teaching elementary school mathematics, grades 4-6. This course cannot be applied to a graduate degree in the elementary education program.

EDEL 560 - Social Studies in the Elementary/Middle School (3 Credits)
Fundamentals of social studies education in the elementary/middle school.

EDEL 570 - Internship in Environments for Teaching and Learning (3 Credits)
Internship for practice in classrooms appropriate to elementary education related to curriculum design and assessment.
Prerequisites: Admission to the internship in elementary education.

EDEL 571 - Internship in Planning and Motivation (3 Credits)
Field experience that emphasizes planning lessons that actively engage students in learning.
Prerequisites: Admission to the internship in elementary education.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDEL 642 - Teaching Mathematics to Young Children (3 Credits)
Analysis of a developmental approach to teaching children under the age of 9.

EDEL 645 - Diagnostic Teaching of Arithmetic (3 Credits)
Analysis of the concepts and skills of arithmetic in the school mathematics curriculum; exploration of diagnostic-prescriptive teaching methods.

EDEL 670 - Language Arts in the Elementary and Middle School (3 Credits)
Examine the content, goals, and methods of teaching language arts in elementary and middle school.

EDEL 690 - Independent Study (1-3 Credits)

EDML 321 - Middle Level Teaching and Management (3 Credits)
Overview of national trends in the middle school with an analysis of the relationship of early adolescent developmental characteristics to organization, curriculum, instruction, and teaching in the middle school level.

EDML 470 - Foundations in Reading (3 Credits)
Reading foundations, curriculum, and assessments for teaching young adolescents across academic disciplines.
EDML 471 - Middle Level Content Area Reading and Writing (3 Credits)
Examination of planning, implementation, and assessment of reading strategy instruction across disciplines and content areas in middle level classrooms. Restricted to: teacher candidates enrolled in the middle level degree program.

EDML 553 - Methods and Materials for Teaching Science in the Middle Grades (3 Credits)
A study of methods, techniques, and materials of instruction appropriate to science teaching in the middle school.

EDML 563 - Methods and Materials for Teaching Social Studies in the Middle School (3 Credits)
A study of goals, content, methods, and materials of instruction in middle school social studies.

EDML 572 - Middle Level Literacy Assessment (3 Credits)
Introduces literacy assessment for individual and small groups or middle level students.

EDML 573 - Methods and Materials for Teaching English/Language Arts in the Middle Grades (3 Credits)
Introduces goals, content, and methods of teaching language arts at the middle level.

EDML 583 - Methods and Materials for Teaching Mathematics in the Middle Grades (3 Credits)
A study of methods, techniques, and materials of instruction appropriate to mathematics teaching in the middle school.

EDML 584 - Middle School Internship Seminar (3 Credits)
Inquiry into the issues that arise during internship B experiences including classroom management, adolescent development, legal/professional responsibilities, multicultural perspectives, and needs of exceptional children.
Corequisite: EDML 599.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDML 598 - Internship A in the Middle School (3 Credits)
Application of effective teaching techniques and organization of instructional settings for middle school students.
Prerequisites: admission to internship in middle level program.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDML 599 - Internship B in the Middle School (12 Credits)
Application of effective teaching techniques and organization of instructional settings for middle school students.
Prerequisites: B or better in EDML 598.
Corequisite: EDSE 584.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

EDRD 345 - Teaching Reading in Early Childhood Education I (3 Credits)
Theory and practice in the teaching of reading for children from birth through age eight for undergraduate majors in early childhood.
Prerequisites: Admission to the professional program in Early Childhood Education.
Corequisite: EDEC 342, EDEC 342P, EDEC 344 and EDEC 347.

EDRD 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

EDRD 430 - Elementary Literacy Instruction I (6 Credits)
Examination and implementation of the key concepts, content, goals, and strategies in teaching reading and the language arts in the elementary school. Students will work with elementary children in a school setting to learn literacy concepts and instructional strategies. Admission to the B.A. program in elementary education, children's literature course. Designated for undergraduate students seeking initial certification.

EDRD 431 - Reading Assessment (3 Credits)
Seminar and supervised one-on-one field experience focused on reading assessment of and instruction for individual children and groups of children. Restricted to: Undergraduate students pursuing teacher certification.
Prerequisites: admission to the professional program.

EDRD 445 - Teaching Writing in Early Childhood Education (3 Credits)
Theory and practice in the teaching of writing for children from birth through age eight. For undergraduate majors in early childhood education including literacy practicum. Restricted to: Early Childhood Education Majors.
Prerequisites: EDRD 345.

Corequisite: EDEC 443.

EDRD 500 - Content Area Literacy PK-12 (3 Credits)
A survey of research and practice which facilitates students’ literacy skills in the content areas. For K-12 content area teachers of art, dance, physical education, foreign language, music and theatre.

EDRD 511 - Teaching Reading to Adults I (3 Credits)
Diagnostic and prescriptive modes of teaching reading to adults, based on the physical, psychological, intellectual, and social characteristics of the adult learner.

EDRD 512 - Teaching Reading to Adults II (3 Credits)
Preparation of materials for teaching basic reading skills to adults and practicum experiences in teaching adults to read.
Prerequisites: EDCO 511 or EDRD 511.

EDRD 514 - Teaching of Reading in the Elementary School (3 Credits)
Study of the various phases of reading in their relation to a modern program of education and the place of reading in the curriculum. Emphasis on modern practices in the classroom teaching of reading.

EDRD 518 - Reading in the Secondary School (3 Credits)
The place of reading instruction in high schools, the programming of special services in reading instruction, methods of teaching basic and developmental reading skills, and case studies of programs. Demonstrations of tests and devices.

EDRD 600 - Foundations of Reading Instruction (3 Credits)
An overview of reading and its curriculum implications: grades K-12 and adults. Emphasis is placed on current trends and issues and related methodologies.

EDRD 650 - Teaching Reading Through a Literature Emphasis (3 Credits)
Integrating appropriate literature into traditional and alternative reading programs. Identifying appropriate literature for classroom use and recreational reading. Use of literature as a means of developing and reinforcing reading skills.
EDRD 651 - Introduction to Teaching Media Literacy (3 Credits)
A survey of analysis of electronic and non-print media themes and messages aimed at youth, with special emphasis on design and implementation of curricula for enhancing children's media literacy.

EDRD 690 - Independent Study (1-3 Credits)

EDSE 110 - Introduction to Careers in Education (3 Credits)
An individualized survey of careers in education, utilizing practica, seminars, and input from various disciplines to focus on personal and professional development. Pass-fail credit.

EDSE 111 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 210 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 211 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 310 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 311 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 312 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

EDSE 410 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 446 - Secondary School Curriculum (3 Credits)
The organization, historical context, foundations for curriculum development, process of curriculum planning, design of the curriculum, and strategy of curriculum change in the secondary school. A laboratory experience in teaching media is included. Open only to juniors and seniors or graduates completing certification requirements.

EDSE 472 - Directed Teaching in High School (Business Education) (12 Credits)
ACAF 2.03: 07/05/2019.

EDSE 473 - Directed Teaching in High School (English) (12 Credits)

EDSE 475 - Directed Teaching in High School (History and Social Studies) (12 Credits)

EDSE 480 - Directed Teaching in High School (Distributive Education) (12 Credits)

EDSE 481 - Directed Teaching in High School (Science) (12 Credits)

EDSE 482 - Directed Teaching in High School (Health) (12 Credits)

EDSE 483 - Directed Teaching in High School (Theatre and Speech) (12 Credits)

EDSE 484 - Secondary Student Teaching Seminar (3 Credits)
Classroom management, discipline, legal responsibilities, multicultural perspectives, and needs of exceptional children.

EDSE 500 - Equity and Community Engagement (3 Credits)
Field-based inquiry into theories of critical multicultural education, culturally relevant and equity pedagogies with an emphasis on middle/high school students and engaging parents and the larger school community.

EDSE 502 - Teachers and Teaching (3 Credits)
Teaching as reflective and ethical practice. Professional standards, teacher leadership and school change, and various roles of professional educators.

EDSE 505 - Source Materials for Geographic Instruction (3 Credits)
Introduction to selected materials available for all levels of instruction in geography. Emphasis on the substantive nature of the materials. Cross-listed course: GEOG 560

EDSE 508 - Teaching Middle and High School (Business Education) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school business education.

EDSE 528 - Study of the Teaching of Business Education in the Secondary School (3 Credits)
Teaching techniques and methodology related to the business education curriculum, emerging technology and software.

EDSE 547 - Teaching Middle and High School (English) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school English. Prerequisites: Admission to MAT program for graduate students; EDSE 402 for undergraduate students.

EDSE 548 - Earth Science for Teachers I (3 Credits)
Origin, internal structure and internal processes of the earth, including plate tectonics, earthquakes, volcanoes, and mountain building. Required field trips, two lectures, and three lab hours per week. Cannot be used in MS or PhD programs in geology. Cross-listed course: GEOG 540

EDSE 549 - Earth Science for Teachers II (3 Credits)
Surface processes acting on the earth; introduction to weather and climate, weathering, erosion, and sedimentary processes; landform evolution; ocean currents and tides, near-shore geologic processes. Required field trips, two lecture, and three lab hours per week. Cannot be used in MS or PhD programs in geology. Prerequisites: EDSE 484/GEOL 540.

Cross-listed course: GEOL 541

EDSE 550 - Teaching Middle and High School (Mathematics) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school mathematics.

EDSE 551 - Teaching Middle and High School (Health) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school health.

EDSE 552 - Teaching Middle and High School (Marketing Education) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school marketing education.
EDSE 553 - Teaching Middle and High School (Science) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school science.

EDSE 554 - Teaching Middle and High School (Theatre and Speech) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school theatre and speech.

EDSE 558 - Teaching Middle and High School (History and Social Studies) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school history and social studies.

EDSE 575 - Teaching Foreign Languages in Secondary Schools (3 Credits)
Current methods, techniques, and materials of instruction appropriate for secondary schools.
Cross-listed course: FORL 511

EDSE 580 - Teaching Advanced Latin in Secondary School (3 Credits)
Methods and materials for teaching the Latin Advanced Placement courses in secondary school.
Corequisite: LATN 580.

EDSE 584 - Middle and High School Internship Seminar (3 Credits)
Classroom management, service learning, legal/professional responsibilities, multicultural perspectives and needs of exceptional children.
Corequisite: Internship II.

EDSE 585 - Secondary Internship Seminar I (1 Credit)
Integration of content, pedagogy, and disposition knowledge learned during coursework with Internship I field experiences.
Corequisite: Students must be enrolled in the Internship I field experiences.

EDSE 586 - Secondary Internship Seminar II (2 Credits)
Integration of content, pedagogy, and disposition knowledge learned during coursework with Internship II field experiences.
Corequisite: Students must be enrolled in the Internship II field experiences.

EDSE 660 - Teaching Mathematics with Manipulatives, Grades 7-12 (3 Credits)
Methods and materials for using manipulative devices to teach middle and high school level mathematics.

EDSE 670 - Graphics Calculators in High School Mathematics (3 Credits)
Methods and materials for using graphics calculators to teach algebra, elementary functions, and analytic geometry.

EDSE 690 - Independent Study (1-3 Credits)

EDTE 101 - Introduction to Careers in Education (2 Credits)
A survey of professional issues and concerns in education.

EDTE 101P - Practicum in Careers in Education (1 Credit)
Seminars and visits to schools and classrooms.
Prerequisite or Corequisite: EDTE 101.

EDTE 201 - Issues and Trends in Teaching and Learning (3 Credits)
Introduces and examines current issues and trends in teaching and learning.

EDTE 202 - Global Citizenship and Social Responsibility through Education (3 Credits)
Examining the continuing evolution of education and the direct impact on the development of social responsibility, values, and our place as global citizens.
Carolina Core: GSS, VSR

EDTE 218 - Convergence and Divergence in African American and Jewish Relations: Historical and Contemporary (3 Credits)
An examination of African American and Jewish American inter-ethnic, historical and contemporary connections and disconnections. Implications for educational, social, and social settings are considered.
Cross-listed course: AFAM 218, JSTU 218
Carolina Core: GSS, VSR

EDTE 400 - Learning Through Community Service (1 Credit)
Documentation and synthesis of community service activities designed to prepare professional educators.
Corequisite: EDFN 300 and enrollment in an approved community experience.

Graduation with Leadership Distinction: GLD: Community Service

EDTE 448 - Teaching Internship in Foreign Languages (3 Credits)
Application of effective teaching techniques and organization of instructional settings in foreign languages for K-12.
Prerequisite or Corequisite: admission to the professional program of education.
Cross-listed course: FORL 448

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

EDTE 474 - Directed Teaching in Foreign Languages (15 Credits)
Students apply methods of curriculum and assessment, professionalism, effective teaching, and organization of instructional settings during internships in foreign language classrooms.
Prerequisites: admission to the professional program of education.
Cross-listed course: FORL 474

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
Experiential Learning: Experiential Learning Opportunity

EDTE 522 - Integrated Curriculum at the Middle Level (3 Credits)
Constructing, teaching, and assessing an integrated curriculum for students in middle schools. Upper level undergraduate students exploring middle level education.

EDTE 590A - Internship in Curriculum and Assessment (3 Credits)
Internship for practice in classrooms appropriate to the level of certification sought (early childhood or elementary) related to curriculum design and assessment.
Prerequisites: admission to internship II in early childhood or elementary education.
Corequisite: EDTE 590B and EDTE 590C.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
EDTE 590B - Internship in Teaching (3 Credits)
Internship for practice in classrooms appropriate to the level of certification sought (early childhood or elementary) related to interactive teaching.
Prerequisites: admission to internship II in early childhood or elementary education.
Corequisite: EDTE 590A and EDTE 590C.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
EDTE 590C - Internship in Professional Roles (3 Credits)
Internship for practice in classrooms appropriate to the level of certification sought (early childhood or elementary) related to professional roles.
Prerequisites: admission to internship II in early childhood or elementary education.
Corequisite: EDTE 590A and EDTE 590B.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
EDTE 600 - Systematic Effective Teaching (3 Credits)
Application of research-supported effective teaching techniques to the teaching-learning process, including demonstration lessons, observations, and supervisory conferences.
EDTE 605 - Cooperative/Team Learning in Education (3 Credits)
Instructional approaches, materials, and procedures for utilizing cooperative/team learning in education.
EDTE 610 - Integrated Reading and Writing Instruction (3 Credits)
Theoretical bases and techniques for teaching reading and writing in the elementary school, using multiple subject areas.
EDTE 611 - Whole Language: Concepts and Practices (3 Credits)
Development of concepts, materials, and practices to implement a whole language philosophy.
EDTE 620 - Restructuring Schools: Teachers and Classrooms (3 Credits)
Examination of issues related to restructuring schools based on different assumptions about teaching, learning, and assessment.
EDTE 621 - Middle Level School Today (3 Credits)
National trends in the middle level school; emphasis on the relationship of early adolescent developmental characteristics to organization, curriculum, instruction, and teaching.
EDTE 625 - Integrating Character Education into Instructional Programs (3 Credits)
Rationale, processes, and methodologies for integrating character education into school or school district instructional programs.
EDTE 626 - Service Learning for Schools, Community, and Workplace Responsibility (3 Credits)
Assist school personnel in designing academic, personal, civic, and workplace responsibility.
EDTE 631 - Technology to Support Instruction (3 Credits)
Introduction to computers, educational technology, and selected applications for instructional management.
EDTE 671 - Computers in Science Education (3 Credits)
Use of computer technology in teaching and managing science classes and problems in grades K-12.

Early Childhood Education, B.A.
This program is designed for undergraduate students at the University of South Carolina who are interested in a career as an early childhood teacher, serving children birth through age 8. Students who successfully complete the degree and licensure requirements and have a positive recommendation by the faculty will be recommended for teacher certification for prekindergarten through grade 3.

Learning Outcome
Students who graduate with a B.A. in Early Childhood Education should be able to ...
- Effectively measure candidate performance and program effectiveness using methods that align with the Specialized Professional Association (SPA) or College of Education standards.

Admissions
Admission to the Professional Program
All University teacher education students must apply and be admitted to Professional Program/Internship at mid-point(s) in their programs prior to final internship (i.e. student teaching). Requirements for admission vary by program, but for undergraduate students include 60 credit hours with a minimum overall GPA of 2.75, successful completion of a state-approved basic skills examination, and courses as specified by program area.

Students should contact their program area or the College of Education Office of Student Affairs for specific requirements and application deadlines.

Degree Requirements (122 hours)
See College of Education (p. 334) for certification requirements and other academic opportunities.

Program of Study
Requirements | Credit Hours
--- | ---
1. Carolina Core | 31-43
2. College Requirements | 0
3. Program Requirements | 18-21
4. Major Requirements | 70

1. Carolina Core Requirements (31-43 hours)
CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
Must be passed with a grade of C or higher.
- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)
- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (7-8 hours)
Life Science from the following (3-4 hours):
Undergraduate

• BIOL 110
• BIOL 120 & BIOL 120L

Physical Science/Earth Science from the following (3-4 hours):
• ASTR 101
• CHEM 101
• CHEM 102
• CHEM 111
• CHEM 111L
• PHYS 101 & PHYS 101L
• GEOL 101
• GEOL 103
• GEOL 201
• MSCI 101
• MSCI 210
• MSCI 215
• ENVR 101
• ENVR 101L
• ENVR 200

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Complete the Carolina Core approved courses in Foreign Language (GFL) or by achieving a score of 2 or better on a USC foreign language placement test.
• CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• Choose one of the following:
  • HIST 111
  • HIST 112

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• Choose one of the following:
  • GEOG 121
  • GEOG 210

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)

• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)

• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (0 hours)

No college-required courses for this program.

3. Program Requirements (18-21 hours)

Supporting Courses (18 hours)
• A course in culture other than Western European (3 hours)
• The following courses must be passed with a grade of C or higher (15 hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLIS 325</td>
<td>Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 431A</td>
<td>Children’s Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 431B</td>
<td>Picture Books</td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Basic Concepts of Elementary Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 222</td>
<td>Basic Concepts of Elementary Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 575</td>
<td>Physical Education for the Classroom Teacher</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTE 520</td>
<td>Art for Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 530</td>
<td>Art of Children</td>
<td></td>
</tr>
<tr>
<td>ARTE 260</td>
<td>Interdisciplinary Relationships in the Arts</td>
<td></td>
</tr>
<tr>
<td>MUED 454</td>
<td>Music for Young Children</td>
<td></td>
</tr>
<tr>
<td>THEA 522</td>
<td>Drama in Education</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 15

Minor (0-18 hours) optional

A student may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better.

Electives (0-3 hours)

The number of elective hours required depends upon the number of hours used to fulfill other degree requirements. Minimum degree requirements must equal 122 hours.

4. Major Requirements (70 hours)

A minimum grade of C is required in all major courses.

Education Core (14 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTE 201</td>
<td>Issues and Trends in Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDPY 401</td>
<td>Learners and the Diversity of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDRM 423</td>
<td>Introduction to Classroom Assessment</td>
<td>2</td>
</tr>
</tbody>
</table>

One course selected from:

3
EDEX 523  Introduction to Exceptional Children  
EDEX 530  Introduction to Early Childhood Special Education

**Total Credit Hours** 14

1 By special permission of early childhood faculty, see advisor.

### Early Childhood Core (39 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 250</td>
<td>Play and Early Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 336</td>
<td>Culturally Relevant Pedagogy in Early Childhood Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 340</td>
<td>The Young Child: Development, Care and Education (Birth to 3 years)</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 342</td>
<td>The Young Child: Development, Care and Education (3-8 years)</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 344</td>
<td>Supporting Linguistic Pluralism Across Content Areas</td>
<td>3</td>
</tr>
</tbody>
</table>

One course selected from:

- EDEC 347  Community of Learners and Classroom Management in Early Childhood
- EDEX 643  Social/Emotional Development and Guidance for Young Children with Developmental Delays
- EDEC 441  Teaching Mathematics in Early Childhood
- EDEC 442  Teaching Science in Early Childhood Education
- EDEC 444  Teaching Social Studies to Early Childhood Education
- EDEC 591  Seminar on Teaching in Early Childhood

One course selected from:

- EDEC 510  Parent/Family Dynamics in Early Childhood Education
- EDEX 692  Partnerships in Early Childhood Special Education
- EDRD 345  Teaching Reading in Early Childhood Education I
- EDRD 445  Teaching Writing in Early Childhood Education

**Total Credit Hours** 39

1 By special permission of early childhood faculty, see advisor.

### Practicum and Internship Experience (17 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 340P</td>
<td>The Young Child: Development, Care and Education (Birth to 3 years) Practicum</td>
<td>1</td>
</tr>
<tr>
<td>EDEC 342P</td>
<td>The Young Child: Development, Care and Education (3-8 years) Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 443</td>
<td>Internship in Integrated Curriculum in Early Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>EDEC 492</td>
<td>Internship in Curriculum, Assessment, Teaching, and Professional Roles</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 17

Note: A grade of B or better in either EDEC 342P or EDEC 443 is required to meet the dispositions requirement for admission to Internship II. Students making below a grade of C or C+ in either EDEC 342P or EDEC 443 are not eligible to progress. An action plan is required for students who make a grade of C or C+ in either EDEC 342P or EDEC 443.

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### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

### Elementary Education, B.A.

#### Learning Outcome

Students who graduate with a B.A. in Elementary Education should be able to...

- Know, understand, and use the major concepts, principles, theories, and research related to development of children and young adolescents to construct learning opportunities that support individual students’ development, acquisition of knowledge, and motivation.
- Demonstrate a high level of competence in use of English language arts and they know, understand, and use concepts from reading, language and child development, to teach reading, writing, speaking, viewing, listening, and thinking skills and to help students successfully apply their developing skills to many different situations, materials, and ideas.
- Know, understand, and use fundamental concepts of physical, life, and earth/space sciences. Candidates can design and implement age-appropriate inquiry lessons to teach science, to build student understanding for personal and social applications, and to convey the nature of science.
- Know, understand, and use the major concepts and procedures that define number and operations, algebra, geometry, measurement, and data analysis and probability. In doing so they consistently engage problem solving, reasoning and proof, communication, connections, and representation.
- Know, understand, and use the major concepts and modes of inquiry from the social studies-the integrated study of history, geography, the social sciences, and other related areas-to promote elementary students’ abilities to make informed decisions as citizens of a culturally diverse democratic society and interdependent world.
- Know, understand, and use as appropriate to their own understanding and skills-the content, functions, and achievements of the performing arts (dance, music, theater) and the visual arts as primary media for communication, inquiry, and engagement among elementary students.
- Know, understand, and use the major concepts in the subject matter of health education to create opportunities for student development and practice of skills that contribute to good health.
- Know, understand, and use as appropriate to their own understanding and skills-human movement and physical activity as central elements to foster active, healthy life styles and enhanced quality of life for elementary students.
- Plan and implement instruction based on knowledge of students, learning theory, connections across the curriculum, curricular goals, and community.
• Understand how elementary students differ in their development and approaches to learning, and create instructional opportunities that are adapted to diverse students.
• Understand and use a variety of teaching strategies that encourage elementary students’ development of critical thinking and problem solving.
• Use their knowledge and understanding of individual and group motivation and behavior among students at the K-6 level to foster active engagement in learning, self motivation, and positive social interaction and to create supportive learning environments.
• Use their knowledge and understanding of effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the elementary classroom.
• Know, understand, and use formal and informal assessment strategies to plan, evaluate and strengthen instruction that will promote continuous intellectual, social, emotional, and physical development of each elementary student.
• Be aware of and reflect on their practice in light of research on teaching, professional ethics, and resources available for professional learning; they continually evaluate the effects of their professional decisions and actions on students, families and other professionals in the learning community and actively seek out opportunities to grow professionally.
• Know the importance of establishing and maintaining a positive collaborative relationship with families, school colleagues, and agencies in the larger community to promote the intellectual, social, emotional, physical growth and well-being of children.

Admissions
Admission to the Professional Program
All University teacher education students must apply and be admitted to Professional Program/Internship at mid-point(s) in their programs prior to final internship (i.e. student teaching). Requirements for admission vary by program, but for undergraduate students include 60 credit hours with a minimum overall GPA of 2.75, successful completion of a state-approved basic skills examination, and courses as specified by program area.

Students should contact their program area or the College of Education Office of Student Affairs for specific requirements and application deadlines.

Degree Requirements (120 hours)
See College of Education (p. 334) for certification requirements and other academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>24-27</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>62</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

• any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

• any CC-ARP courses (p. 743)

SCI – Scientific Literacy (7-8 hours)

Select from two different categories below.

• Life Science from the following (3-4 hours):
  • BIOL 110
  • BIOL 120 & BIOL 120L

• Physical Science from the following (3-4 hours):
  • CHEM 105

• Earth Science from the following (3-4 hours):
  • ENVR 101 & ENVR 101L
  • ENVR 200
  • GEOG 201
  • GEOL 101
  • GEOL 103
  • MSCI 210 & MSCI 210L
  • MSCI 215 & MSCI 215L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Complete the Carolina Core approved courses in Foreign Language (GFL) or by achieving a score of 2 or better on a USC foreign language placement test.

• CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

• Choose one of the following:
  • HIST 111
  • HIST 112

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

• Choose one of the following:
  • POLI 101
  • POLI 201

AIU – Aesthetic and Interpretive Understanding (3 hours)

• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

• any overlay or stand-alone CC-CMS course (p. 743)
INF – Information Literacy ¹ (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
any overlay or stand-alone CC-VSR course (p. 743)

Carolina Core Stand Alone or Overlay Eligible
Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (24-27 hours)
Supporting Courses (24-25 hours)
Complete 3-4 hours from the category below that was not used to fulfill CC-SCI (for a total of 10 hours in sciences, including the courses chosen to fulfill CC-SCI).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 110</td>
<td>General Biology</td>
<td>3-4</td>
</tr>
<tr>
<td>BIOL 120 &amp; 120L</td>
<td>Human Biology and Laboratory in Human Biology</td>
<td>3-4</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>Chemistry and Modern Society I</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Earth Science
| ENVR 101 | Introduction to the Environment | 3-4     |
| ENVR 200 | Natural History of South Carolina | 3-4     |
| GEOG 201 | Landform Geography              | 3-4     |
| GEOL 101 | Introduction to the Earth       | 3-4     |
| GEOL 103 | Environment of the Earth        | 3-4     |
| GEOL 201 | Observing the Earth             | 3-4     |
| MSCI 210 & 210L | Oceans and Society and Oceans and Society Laboratory | 3-4     |
| MSCI 215 & 215L | Coastal Environments of the southeastern U.S. (Laboratory) | 3-4     |

Select one of the following: 3
- GEOG 121 Globalization and World Regions
- GEOG 210 Peoples, Places, and Environments

Select one of the following: 3
- ECON 221 Principles of Microeconomics
- ECON 222 Principles of Macroeconomics
- ECON 224 Introduction to Economics

The following courses must be passed with a grade of C or higher.
Select one of the following: 3
- SLIS 325 Children's Literature
- ENGL 431A Children's Literature
- ENGL 431B Picture Books
- MATH 221 Basic Concepts of Elementary Mathematics I 3
- MATH 222 Basic Concepts of Elementary Mathematics II 3
- PEDU 575 Physical Education for the Classroom Teacher 3

Select one of the following: 3
- ARTE 520 Art for Elementary Schools
- ARTE 530 Art of Children
- MUED 454 Music for Young Children

Total Credit Hours 24-25

Minor (0-18 hours) optional
A student may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better.

Electives (0-3 hours)
The number of elective hours required depends upon the number of hours used to fulfill other degree requirements. Minimum degree requirements must equal 120 hours.

4. Major Requirements (62 hours)
Achieve a GPA of 3.00 or higher in all education course work; a minimum grade of C is required in all major courses.

Education Core (14 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 523</td>
<td>Introduction to Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDPY 401</td>
<td>Learners and the Diversity of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDRM 423</td>
<td>Introduction to Classroom Assessment</td>
<td>2</td>
</tr>
<tr>
<td>EDTE 201</td>
<td>Issues and Trends in Teaching and Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 14

Elementary Core and Clinical Experience (27 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEL 305</td>
<td>Nature and Management of Elementary Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 306</td>
<td>Culturally Sustaining Pedagogy for the Elementary Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 440</td>
<td>Elementary Mathematics Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 450</td>
<td>Elementary Science Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 460</td>
<td>Elementary Social Studies Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 491</td>
<td>Seminar on Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDRD 430</td>
<td>Elementary Literacy Instruction I</td>
<td>6</td>
</tr>
<tr>
<td>EDRD 431</td>
<td>Reading Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 27
Practicum and Internship Experience (21 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEL 441</td>
<td>Introductory Elementary Internship</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 471</td>
<td>Internship in Environments, Planning, and Motivation for Teaching and Learning</td>
<td>6</td>
</tr>
<tr>
<td>EDEL 490</td>
<td>Internship in Elementary Education</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credit Hours 21

Note: For admission to EDEL 490, a GPA of 3.00 or higher is required in EDEL 440, EDEL 450, EDEL 460, and EDEL 471.

Admissions

Admission to the Professional Program

All University teacher education students must apply and be admitted to Professional Program/Internship at mid-point(s) in their programs prior to final internship (i.e., student teaching). Requirements for admission vary by program, but for undergraduate students include 60 credit hours with a minimum overall GPA of 2.75, successful completion of a state-approved basic skills examination, and courses as specified by program area.

Students should contact their program area or the College of Education Office of Student Affairs for specific requirements and application deadlines.

Degree Requirements (122-124 hours)

See College of Education (p. 334) for certification requirements and other academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>3-6</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>85-90</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*must be passed with a grade of C or higher*

- any CC-CMW course (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP course (p. 743)

SCI – Scientific Literacy (7 hours)

- any two CC-SCI courses (p. 743) (one must include a lab)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

To meet the GFL requirement, students in the BA in Middle Level Education complete the Carolina Core approved courses in Foreign Language (GFL) or by achieving a score of 2 or better on a USC foreign language placement test.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Elementary Education, B.A.

Middle Level Education, B.A.

Learning Outcomes

Students who graduate with a B.A. in Middle Level Education should be able to...

- understand the major concepts, principles, theories, and research related to young adolescent development, and they provide opportunities that support student development and learning.
- understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within these organizational components.
- understand the major concepts, principles, theories, standards, and research related to middle level curriculum and assessment, and they use this knowledge in their practice.
- understand and use the central concepts, tools of inquiry, standards, and structures of content in their chosen teaching fields, and they create meaningful learning experiences that develop all young adolescents’ competence in subject matter and skills.
- understand and use the major concepts, principles, theories, and research related to effective instruction and assessment, and they employ a variety of strategies for a developmentally appropriate climate to meet the varying abilities and learning styles of all young adolescents.
- understand the major concepts, principles, theories, and research related to working collaboratively with family and community members, and they use that knowledge to maximize the learning of all young adolescents.
- understand the complexity of teaching young adolescents, and they engage in practices and behaviors that develop their competence as professionals.
AIU – Aesthetic and Interpretive Understanding (3 hours)
  • any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
  • any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
  • any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
  • any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible
Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (3-6 hours)

Supporting Courses (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 283</td>
<td>Special Topics in British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 285</td>
<td>Special Topics in American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 287</td>
<td>American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 288</td>
<td>English Literature</td>
<td></td>
</tr>
</tbody>
</table>

Select an additional History course

Total Credit Hours 3

Minor (18 hours) optional
A student may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better.

Electives (0-3 hours)
The number of elective hours required depends upon the number of hours used to fulfill other degree requirements. Minimum degree requirements must equal 122 hours.

4. Major Requirements (85-90 hours)
A minimum grade of C is required in all major requirements, including all major and concentration courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTE 201</td>
<td>Issues and Trends in Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDPY 401</td>
<td>Learners and the Diversity of Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

Middle Level Core
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDM 321</td>
<td>Middle Level Teaching and Management</td>
<td>3</td>
</tr>
<tr>
<td>EDM 522</td>
<td>Integrated Curriculum at the Middle Level</td>
<td>3</td>
</tr>
<tr>
<td>EDM 470</td>
<td>Foundations in Reading</td>
<td>3</td>
</tr>
<tr>
<td>EDM 471</td>
<td>Middle Level Content Area Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>EDEX 491</td>
<td>Introduction to Inclusion of Students with Mild Disabilities</td>
<td>2</td>
</tr>
<tr>
<td>EDRM 423</td>
<td>Introduction to Classroom Assessment</td>
<td>2</td>
</tr>
</tbody>
</table>

Select two middle grades content-specific methods courses (500-level) from the following 4 courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDM 553</td>
<td>Methods and Materials for Teaching Science in the Middle Grades</td>
<td></td>
</tr>
<tr>
<td>EDM 563</td>
<td>Methods and Materials for Teaching Social Studies in the Middle School</td>
<td></td>
</tr>
<tr>
<td>EDM 573</td>
<td>Methods and Materials for Teaching English/Language Arts in the Middle Grades</td>
<td></td>
</tr>
<tr>
<td>EDM 583</td>
<td>Methods and Materials for Teaching Mathematics in the Middle Grades</td>
<td></td>
</tr>
</tbody>
</table>

Clinical Experience
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDM 598</td>
<td>Internship A in the Middle School</td>
<td>3</td>
</tr>
<tr>
<td>EDM 599</td>
<td>Internship B in the Middle School</td>
<td>12</td>
</tr>
<tr>
<td>EDM 584</td>
<td>Middle School Internship Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 49

Concentrations (36-41 hours)
Must be in addition to courses taken to meet Carolina Core requirements.

Specialization is required in two different content areas, chosen from:

- English
- Mathematics
- Science
- Social Studies

Students pursuing a B.A. degree cannot choose the Math/Science combination.

Specialization A (18-23 hours)
To be completed with courses listed below and approved by College of Education advisor in English, mathematics, science, or social studies.

Specialization B (18-23 hours)
To be completed with courses listed below and approved by College of Education advisor in English, mathematics, science, or social studies and different from Specialization A.

English Specialization (18 hours)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDM 572</td>
<td>Middle Level Literacy Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 431A</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>HIST 101</td>
<td>European Civilization from Ancient Times to the</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mid-17th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 102</td>
<td>European Civilization from the Mid-17th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 111</td>
<td>United States History to 1865</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 112</td>
<td>United States History since 1865</td>
<td></td>
</tr>
<tr>
<td>GEOG 561</td>
<td>Contemporary Issues in Geography Education</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HIST 409</td>
<td>The History of South Carolina, 1670-1865</td>
<td></td>
</tr>
<tr>
<td>HIST 410</td>
<td>History of South Carolina Since 1865</td>
<td></td>
</tr>
<tr>
<td>HIST 442</td>
<td>The Old South</td>
<td></td>
</tr>
<tr>
<td>SOST 301</td>
<td>Introduction to Southern Studies 1580-1900</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional 300-level HIST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 219</td>
<td>Great Discoveries in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 327</td>
<td>Prehistoric Civilizations of the New World</td>
<td></td>
</tr>
<tr>
<td>ANTH 331</td>
<td>Mesoamerican Prehistory</td>
<td></td>
</tr>
<tr>
<td>ANTH 328</td>
<td>Ancient Civilizations</td>
<td></td>
</tr>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**Mathematics Specialization (18-20 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 603</td>
<td>Inquiry Approach to Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 142</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 602</td>
<td>An Inductive Approach to Geometry</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 531</td>
<td>Foundations of Geometry</td>
<td></td>
</tr>
<tr>
<td>STAT 201</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 401</td>
<td>Conceptual History of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 241</td>
<td>Vector Calculus</td>
<td></td>
</tr>
<tr>
<td>Select two additional courses from the following OR three courses if STAT 201 was used to fulfill the Carolina Core ARP requirement:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus I (if not used for Carolina Core</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>requirement)</td>
<td></td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II (if not used above)</td>
<td></td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus (if not used above)</td>
<td></td>
</tr>
<tr>
<td>MATH 170</td>
<td>Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>or MATH 174</td>
<td>Discrete Mathematics for Computer Science</td>
<td></td>
</tr>
<tr>
<td>MATH 511</td>
<td>Probability</td>
<td></td>
</tr>
<tr>
<td>MATH 544</td>
<td>Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 546</td>
<td>Algebraic Structures I</td>
<td></td>
</tr>
<tr>
<td>MATH 574</td>
<td>Discrete Mathematics I</td>
<td></td>
</tr>
<tr>
<td>MATH 580</td>
<td>Elementary Number Theory</td>
<td></td>
</tr>
<tr>
<td>STAT 506</td>
<td>Introduction to Experimental Design</td>
<td></td>
</tr>
<tr>
<td>STAT 515</td>
<td>Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>STAT 516</td>
<td>Statistical Methods II</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours** 18

1 If STAT 506 was not taken.

**Science Specialization (18-23 hours)**

Select two courses from each of the following sciences:
### Course Title Credits

#### Life Science
Select two of the following: 6-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 206</td>
<td>Genetics and Society</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 232</td>
<td>Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 270 &amp; 270L</td>
<td>Introduction to Environmental Biology and Introduction to Environmental Biology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Physical Science
Select two of the following: 6-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 201 &amp; 201L</td>
<td>General Physics I and General Physics Laboratory I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 202 &amp; 202L</td>
<td>General Physics II and General Physics Laboratory II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 153 &amp; 153L</td>
<td>Physics in the Visual Arts and Physics in the Visual Arts Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 155</td>
<td>Musical Acoustics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Fundamental Chemistry II (if not used for Carolina Core requirement)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>Chemistry and Modern Society I (if not used for Carolina Core requirement)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I (if not used for Carolina Core requirement)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Earth Science
Select two of the following: 6-7

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 302</td>
<td>Rocks and Minerals</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 205</td>
<td>Earth Resources 1</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 210</td>
<td>Oceans and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 215</td>
<td>Coastal Environments of the Southeastern U.S.</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 230</td>
<td>Geology of the National Parks</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Continental Drift and Ice Ages</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 18-23

1. Cannot be used if GEOL 103 used to fulfill Carolina Core.

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**Middle Level Education, B.A. Mathematics & English Concentration**

**Middle Level Education, B.A. Mathematics & Social Studies Concentration**

**Middle Level Education, B.A. Science & English Concentration**

**Middle Level Education, B.A. Science & Social Studies Concentration**

**Middle Level Education, B.A. Social Studies & English Concentration**

### Middle Level Education, B.S.

#### Learning Outcomes

Students who graduate with a B.S. in Middle Level Education should be able to...

- understand the major concepts, principles, theories, and research related to young adolescent development, and they provide opportunities that support student development and learning.
- understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within these organizational components.
- understand the major concepts, principles, theories, standards, and research related to middle level curriculum and assessment, and they use this knowledge in their practice.
- understand and use the central concepts, tools of inquiry, standards, and structures of content in their chosen teaching fields, and they create meaningful learning experiences that develop all young adolescents’ competence in subject matter and skills.
- understand and use the major concepts, principles, theories, and research related to effective instruction and assessment, and they employ a variety of strategies for a developmentally appropriate climate to meet the varying abilities and learning styles of all young adolescents.
- understand the major concepts, principles, theories, and research related to working collaboratively with family and community members, and they use that knowledge to maximize the learning of all young adolescents.
- understand the complexity of teaching young adolescents, and they engage in practices and behaviors that develop their competence as professionals.

### Admissions

**Admission to the Professional Program**

All University teacher education students must apply and be admitted to Professional Program/Internship at mid-point(s) in their programs prior to final internship (i.e. student teaching). Requirements for admission vary by program, but for undergraduate students include 60 credit hours with a minimum overall GPA of 2.75, successful completion of a state-approved basic skills examination, and courses as specified by program area.

Students should contact their program area or the College of Education Office of Student Affairs for specific requirements and application deadlines.

### Degree Requirements (122-124 hours)

See College of Education (p. 334) for certification requirements and other academic opportunities.

### Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>3-6</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>85-90</td>
</tr>
</tbody>
</table>
1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
must be passed with a grade of C or higher
- any CC-CMW course (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-7 hours)
- MATH 122 or MATH 141
- STAT 201

SCI – Scientific Literacy (7 hours)
- any two CC-SCI courses (p. 743) (one must include a lab)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
To meet the GFL requirement, students in the BS in Middle Level Education complete the Carolina Core approved courses in Foreign Language (GFL) or by achieving a score of 2 or better on a USC foreign language placement test.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
- any overlay or stand-alone CC-CMS (p. 743) course

INF – Information Literacy (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (3-6 hours)
Supporting Courses (3 hours)
- Select an additional Carolina Core-approved SCI course

Minor (18 hours) optional
A student may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better.

Electives (0-3 hours)
The number of elective hours required depends upon the number of hours used to fulfill other degree requirements. Minimum degree requirements must equal 122 hours.

4. Major Requirements (85-90 hours)
A minimum grade of C is required in all major requirements, including all major and concentration courses.

Major Courses (49 hours)
A minimum grade of C is required in all major courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTE 201</td>
<td>Issues and Trends in Teaching and Learning</td>
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<td>Schools in Communities</td>
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<td>Integrated Curriculum at the Middle Level</td>
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<td>Foundations in Reading</td>
<td>3</td>
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<tr>
<td>EDML 471</td>
<td>Middle Level Content Area Reading and Writing</td>
<td>3</td>
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<tr>
<td>EDEX 491</td>
<td>Introduction to Inclusion of Students with Mild Disabilities</td>
<td>2</td>
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<td>Introduction to Classroom Assessment</td>
<td>2</td>
</tr>
<tr>
<td>EDML 553</td>
<td>Methods and Materials for Teaching Science in the Middle Grades</td>
<td>6</td>
</tr>
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<td>EDML 573</td>
<td>Methods and Materials for Teaching English/Language Arts in the Middle Grades</td>
<td>3</td>
</tr>
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<td>EDML 583</td>
<td>Methods and Materials for Teaching Mathematics in the Middle Grades</td>
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</table>

Clinical Experience
<table>
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<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDML 598</td>
<td>Internship A in the Middle School</td>
<td>3</td>
</tr>
<tr>
<td>EDML 599</td>
<td>Internship B in the Middle School</td>
<td>12</td>
</tr>
<tr>
<td>EDML 584</td>
<td>Middle School Internship Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 49
## Concentrations (36-41 hours)

Must be in addition to courses taken to meet Carolina Core requirements.

Specialization is required in two different content areas, chosen from:

- English
- Mathematics
- Science
- Social Studies

Students pursuing a B.S. degree cannot choose the English/Social Studies combination.

### Specialization A (18-23 hours)

To be completed with courses listed below and approved by College of Education advisor in English, mathematics, science, or social studies.

### Specialization B (18-23 hours)

To be completed with courses listed below and approved by College of Education advisor in English, mathematics, science, or social studies and different from Specialization A.

### English Specialization (18 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDML 572</td>
<td>Middle Level Literacy Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 431A</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 431B</td>
<td>Picture Books</td>
<td></td>
</tr>
<tr>
<td>ENGL 428A</td>
<td>African-American Literature I: to 1903</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 428B</td>
<td>African-American Literature II: 1903 – Present</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- ENGL 360 Creative Writing
- ENGL 460 Advanced Writing
- ENGL 461 The Teaching of Writing

Select one of the following:

- ENGL 450 English Grammar
- ENGL 389 The English Language

### Total Credit Hours

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
</tr>
</tbody>
</table>

### Social Studies Specialization (18 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>European Civilization from Ancient Times to the Mid-17th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>European Civilization from the Mid-17th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 111</td>
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<td>3</td>
</tr>
<tr>
<td>or HIST 112</td>
<td>United States History since 1865</td>
<td></td>
</tr>
<tr>
<td>GEOG 561</td>
<td>Contemporary Issues in Geography Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- HIST 409 The History of South Carolina, 1670-1865
- HIST 410 History of South Carolina Since 1865
- HIST 442 The Old South
- SOST 301 Introduction to Southern Studies 1580-1900

Select one of the following:

- Additional 300-level HIST
- ANTH 219 Great Discoveries in Archaeology
- ANTH 327 Prehistoric Civilizations of the New World
- ANTH 331 Mesoamerican Prehistory
- ANTH 328 Ancient Civilizations
- ECON 224 Introduction to Economics

### Total Credit Hours

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
</tr>
</tbody>
</table>

### Mathematics Specialization (18-20 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 603</td>
<td>Inquiry Approach to Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 142</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 602</td>
<td>An Inductive Approach to Geometry</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 531</td>
<td>Foundations of Geometry</td>
<td></td>
</tr>
<tr>
<td>STAT 201</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 401</td>
<td>Conceptual History of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 241</td>
<td>Vector Calculus</td>
<td></td>
</tr>
</tbody>
</table>
Select two additional courses from the following OR three courses if STAT 201 was used to fulfill the Carolina Core ARP requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 141</td>
<td>Calculus I (if not used for Carolina Core requirement)</td>
<td></td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II (if not used above)</td>
<td></td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus (if not used above)</td>
<td></td>
</tr>
<tr>
<td>MATH 170</td>
<td>Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>or MATH 174</td>
<td>Discrete Mathematics for Computer Science</td>
<td></td>
</tr>
<tr>
<td>MATH 511</td>
<td>Probability</td>
<td></td>
</tr>
<tr>
<td>MATH 544</td>
<td>Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 546</td>
<td>Algebraic Structures I</td>
<td></td>
</tr>
<tr>
<td>MATH 574</td>
<td>Discrete Mathematics I</td>
<td></td>
</tr>
<tr>
<td>MATH 580</td>
<td>Elementary Number Theory</td>
<td></td>
</tr>
<tr>
<td>STAT 506</td>
<td>Introduction to Experimental Design</td>
<td></td>
</tr>
<tr>
<td>STAT 515</td>
<td>Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>STAT 516</td>
<td>Statistical Methods II</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**: 18

1 If STAT 506 was not taken.

**Science Specialization (18-23 hours)**

Select two courses from each of the following sciences:

**Life Science**

Select 6-8 hours of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200 &amp; 200L</td>
<td>Plant Science and Plant Science Laboratory</td>
<td>6-8</td>
</tr>
<tr>
<td>BIOL 206</td>
<td>Genetics and Society</td>
<td></td>
</tr>
<tr>
<td>BIOL 232</td>
<td>Anatomy</td>
<td></td>
</tr>
<tr>
<td>BIOL 270 &amp; 270L</td>
<td>Introduction to Environmental Biology and Introduction to Environmental Biology Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

**Physical Science**

Select 6-8 hours of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 201 &amp; 201L</td>
<td>General Physics I and General Physics Laboratory I</td>
<td>6-8</td>
</tr>
<tr>
<td>PHYS 202 &amp; 202L</td>
<td>General Physics II and General Physics Laboratory II</td>
<td></td>
</tr>
<tr>
<td>PHYS 153 &amp; 153L</td>
<td>Physics in the Visual Arts and Physics in the Visual Arts Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 155</td>
<td>Musical Acoustics</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Fundamental Chemistry II (if not used for Carolina Core requirement)</td>
<td></td>
</tr>
<tr>
<td>CHEM 105</td>
<td>Chemistry and Modern Society I (if not used for Carolina Core requirement)</td>
<td></td>
</tr>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I (if not used for Carolina Core requirement)</td>
<td></td>
</tr>
</tbody>
</table>

**Earth Science**

Select 6-7 hours of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 302</td>
<td>Rocks and Minerals</td>
<td></td>
</tr>
<tr>
<td>GEOL 205</td>
<td>Earth Resources 1</td>
<td></td>
</tr>
<tr>
<td>MSC 210</td>
<td>Oceans and Society</td>
<td></td>
</tr>
<tr>
<td>GEOL 215</td>
<td>Coastal Environments of the Southeastern U.S.</td>
<td></td>
</tr>
<tr>
<td>GEOL 230</td>
<td>Geology of the National Parks</td>
<td></td>
</tr>
</tbody>
</table>

**GEOL 250** | Continental Drift and Ice Ages                         | 18-23   |

Total Credit Hours: 18

1 Cannot be used if GEOL 103 used to fulfill Carolina Core.

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**Middle Level Education, B.S. Mathematics & English Concentration**

**Middle Level Education, B.S. Mathematics & Science Concentration**

**Middle Level Education, B.S. Mathematics & Social Studies Concentration**

**Middle Level Education, B.S. Science & English Concentration**

**Middle Level Education, B.S. Science & Social Studies Concentration**

**Secondary Education Mathematics Minor**

The Secondary Education Mathematics Minor is designed to prepare students in quantitatively oriented majors (outside of Mathematics) for the 'fifth-year' Secondary Education Master of Teaching (M.T.) program. Completion of the Minor does not guarantee admission into the M.T. program. Contact the Office of Student Affairs in the College of Education for information on the M.T., its admission requirements, and possible additional course work requirements for some majors.

**Prerequisites Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 141</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 300</td>
<td>Transition to Advanced Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours: 14

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDFI 300</td>
<td>Schools in Communities</td>
<td>3</td>
</tr>
<tr>
<td>EDPS 401</td>
<td>Learners and the Diversity of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 500</td>
<td>Equity and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 502</td>
<td>Teachers and Teaching</td>
<td>3</td>
</tr>
<tr>
<td>MATH 544</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Course**

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 531</td>
<td>Foundations of Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 546</td>
<td>Algebraic Structures I</td>
<td></td>
</tr>
</tbody>
</table>
**Physical Education**

Department Website (https://sc.edu/study/colleges_schools/education/about/academic_departments/)

Linda Nigles, Chair

The Department of Physical Education offers a B.S. degree in physical education and a minor in school athletic coaching.

**Admission to Professional Programs**

Students must be formally admitted to the professional programs in teacher certification. Specific requirements are listed below.

**Teacher Certification**

The teacher certification program is an CAEP-approved program that prepares people to teach physical education and coach in public and private schools from grades K to 12. The requirements for acceptance into the professional program in teacher certification include a minimum 2.75 overall GPA, a passing score on the South Carolina required basic skills assessment, a passing score on the Educational and Economic Development Act (EEDA) assessment, a minimum of 60 credit hours, and a C or better in ENGL 101, PEDU 100, ENGL 101, and ENGL 102. For a complete listing and description of all program requirements, please refer to the USC Department of Physical Education Student Handbook.

**Transfer admission into degree programs in the Department of Physical Education**

Physical Education Teacher Certification

1. Students from regionally accredited colleges and universities must have a minimum overall cumulative GPA of 2.50 (on a 4.00 scale) to enter preprofessional programs in physical education. Note: To be eligible to take upper level Physical Education coursework and for progression into the Professional Program in Education, students must achieve a minimum 2.75 overall GPA.

2. A grade of C or better must be earned on all courses listed for admission to the professional program in physical education.

3. Students may not transfer credit for any course which carries a grade less than C.

**Progression Requirements**

A student in physical education must earn a C or better in all major course work, including major and minor emphases, education courses, required sciences, analytical reasoning option, and ENGL 101 and ENGL 102.

Students may attempt to earn a satisfactory grade in a major course no more than two times. Only if a valid case for taking the course a third time is established will such be allowed. Validity of a case will be determined by departmental review of a formal petition. Completion of remedial course work may be required.

**Courses**

**PDEU 100 - Contemporary Physical Activity (1 Credit)**

Development of skills in an identified area. Course content will vary and be announced by title. May be repeated as topics vary.

**PDEU 101 - Self-Defense For Women (1 Credit)**

Basic knowledge and understanding of the culture and context in which interpersonal violence occurs, the root causes and patterns of behavior within violent relationships, self defense against forcible attacks, making immediate decisions when confronted with an assault, and the procedures necessary after an assault has occurred.

**PDEU 102 - Contemporary Physical Activity (1-3 Credits)**

Course content will vary and be announced by title. May be repeated as topics vary.

**PDEU 103 - Jogging (1 Credit)**

Exercise, lectures, and self-evaluation for weight control and fitness improvement.

**PDEU 104 - Personal Fitness and Weight Control (1 Credit)**

Advanced techniques for controlling weight and improving fitness through exercise, lectures, and self-evaluation.

**PDEU 105 - Weight Training (1 Credit)**

Fundamentals of progressive resistance exercise training.

**PDEU 106 - Advanced Weight Training (1 Credit)**

Advanced techniques.

**PDEU 107 - Group Exercise (1 Credit)**

Cardio-respiratory fitness, flexibility, muscular strength and endurance, and agility through various group exercise formats while utilizing a variety of equipment.

**PDEU 108 - Fitness Swimming (1 Credit)**

Individualized physical conditioning through lap swimming and aquatic calisthenics, games, and activities.

**Prerequisites:** PDEU 140.

Standards for general eligibility to continue in the University are described in the bulletin. The Department of Physical Education has additional standards.

**Teacher Certification in Physical Education**

1. If the semester, yearly, or cumulative grade point average of a student is below 2.75, the student will receive notification in writing from the department of the GPA jeopardy.

2. If a student has two consecutive semesters of grade point averages below 2.75 and a cumulative grade point average below 2.75, the student will be suspended from academic programs in the Department of Physical Education.

3. To be reinstated the student must achieve an overall grade point average of 2.75 and have the endorsement of the Department of Physical Education.

**Programs**

- Physical Education (Athletic Coaching) Minor (p. 363)
- Physical Education, B.S.P.E. (p. 363)
PEDU 109 - ROTC Conditioning (1 Credit)
Exercise testing, technique, and leadership, program design and implementation, nutrition, individual and team competitions, and other forms of training.

PEDU 110 - Orientation to Physical Education (1 Credit)
Experiences in a variety of physical-activity areas.

PEDU 111 - Badminton (1 Credit)
Basic strokes and introduction to the history, rules, and strategy of the game.

PEDU 112 - Basketball (1 Credit)
Fundamental skills of game performance. Strategy, rules, and basic offenses and defenses.

PEDU 113 - Bowling (1 Credit)
Fundamental skills and techniques of bowling.

PEDU 114 - Golf (1 Credit)
Basic strokes, rules, and strategy of golf.

PEDU 115 - Gymnastics (1 Credit)
Fundamentals of gymnastics on the trampoline and balance beam; tumbling, parallel bars, rings, and the horse.

PEDU 116 - Handball (1 Credit)
Fundamentals, strategy, and rules of handball.

PEDU 117 - Karate (1 Credit)
Fundamentals.

PEDU 118 - Rugby (1 Credit)
Fundamental skills for game performance.

PEDU 119 - Soccer (1 Credit)
Fundamental skills for game performance; history, rules, and game strategy.

PEDU 120 - Softball (1 Credit)
Fundamental skills for game performance; history, rules, and game strategy.

PEDU 121 - Beginning Tennis (1 Credit)
Basic strokes, history, rules, and strategy of the game.

PEDU 122 - Volleyball (1 Credit)
Recreational and competitive volleyball skills.

PEDU 123 - Pilates (1 Credit)
Focus is placed on mind-body exercises which help strengthen and condition the muscles. Each exercise will focus on building core strength, lengthening muscles, and improving flexibility. Proper breathing will also be demonstrated for each exercise in order to achieve the maximum benefits.

PEDU 124 - Fencing (1 Credit)
Basic foil-fencing techniques, rules, terminology, history, and etiquette.

PEDU 125 - Intermediate Karate (1 Credit)
Prerequisite: PEDU 117.

PEDU 126 - Badminton/Golf (1 Credit)
Students will learn to perform basic skills as well as to implement game strategies. Major consideration will be given on how to teach each sport.

PEDU 127 - Field Hockey (1 Credit)
Fundamental skills, rules, and terminology of field hockey.

PEDU 128 - Football (1 Credit)
Fundamental skills, rules, and terminology.

PEDU 129 - Racquetball (1 Credit)
Fundamental skills, rules, and terminology.

PEDU 130 - Intermediate Golf (1 Credit)
Intermediate strokes and strategies; heavier emphasis on the total golf swing.
Prerequisites: PEDU 114.

PEDU 131 - Basketball/Soccer (1 Credit)
Students will learn to perform basic skills as well as to implement game strategies. Major consideration will be given on how to teach each sport.

PEDU 132 - Intermediate Tennis (1 Credit)
Intermediate skills and strategies.
Prerequisites: PEDU 121.

PEDU 133 - Track and Field (1 Credit)
Fundamental skills, rules, and terminology.

PEDU 134 - Flying Disc Sports (1 Credit)
Fundamentals and strategies of disc golf, ultimate and various physical activities using flying discs in recreational and competitive situations.

PEDU 135 - Tai-Chi-Chuan (1 Credit)
Students will learn to perform basic Tai-Chi-Chuan skills. Major consideration will be given to breathing skills and meditation to relieve stress.

PEDU 136 - Yoga (1 Credit)
Fundamental skills and terminology.

PEDU 137 - Tae Kwon Do (1 Credit)
Fundamental skills of Tae Kwon Do.

PEDU 138 - Softball/Volleyball (1 Credit)
Students will learn to perform basic skills as well as to implement game strategies. Major consideration will be given on how to teach each sport.

PEDU 139 - Tennis/Track (1 Credit)
Students will learn to perform basic skills as well as to implement game strategies. Major consideration will be given on how to teach each sport.

PEDU 140 - Beginning Swimming (1 Credit)
Skills for safety and recreation.

PEDU 141 - Intermediate Swimming (1 Credit)
Prerequisite: PEDU 140.

PEDU 142 - Lifeguard Training (1 Credit)
Skills of lifesaving.
Prerequisites: swim 500 yards, tread water for one minute, and swim 20 feet underwater.

PEDU 143 - Water Safety Instructor Certification (1 Credit)
Skills, methods, and techniques to teach Red Cross Swimming and Lifesaving.
Prerequisites: 17 years of age; sound physical condition; possession of the Red Cross Advanced Lifesaving Certificate, a Red Cross Swimmer Certificate, or the ability to perform the Swimmer Course.

PEDU 144 - Beginning Springboard Diving (1 Credit)
Basic dives and aesthetics of springboard diving.
Prerequisites: tread water and swim 20 feet underwater.

PEDU 145 - Skin and Scuba Diving (1 Credit)
Safe and effective use of equipment with emphasis on principles and physical laws of diving.
Prerequisites: ability to swim at the intermediate level.
PEDU 146 - Scuba (Open Water) (1 Credit)
Certification program in open water scuba instruction: safety, emergency procedures, equipment handling, navigation, and air consumption. Includes five open water dives.

PEDU 147 - Beginning Stand-Up Paddleboarding (1 Credit)
History and development of stand-up paddleboarding as a sport, safety protocol, paddleboard construction and design, terminology, fitness attributes and paddling techniques.

PEDU 148 - Team Water Sports (1 Credit)
Fundamental skills, rules, and strategies for participation in team water sports.
Prerequisites: intermediate swimming skills.

PEDU 149 - Survival Swimming (1 Credit)
Skills and techniques for survival under adverse conditions.
Prerequisites: swim 100 yards, tread water for one minute, and swim 20 feet underwater.

PEDU 150 - Basic Keelboat Sailing (1 Credit)
The course is designed to teach students to safely skipper and crew on a 20 to 27 foot sailboat with a tiller and outboard engine on lakes, bays, and sheltered waters in moderate weather conditions. Theory, history, safety, and teamwork will be emphasized.

PEDU 151 - Beginning Skateboarding (1 Credit)
History, rules, etiquette and techniques of skateboarding.

PEDU 152 - Power Yoga (1 Credit)
Vigorous yoga utilizing breath and movement to improve strength and flexibility.

PEDU 153 - Cardiopulmonary Resuscitation (1 Credit)
Knowledge and skills in providing artificial respiration, first aid for foreign body obstruction, one and two rescuer CPR for adults, infants, and children.

PEDU 154 - Advanced Open Water Scuba (1 Credit)
Development skills beyond open water diving: underwater navigation, night diving, and deep diving.
Prerequisites: PEDU 146.

PEDU 155 - Personal Training Preparation (3 Credits)
Safe and effective methods of exercise by the application of theories and principles of exercise science. Discussion of facility organization, legal liability, and injury prevention and treatment within the score of becoming a fitness professional.

PEDU 160 - Intermediate Yoga (1 Credit)
This course is designed to provide the historical and philosophical context of Mindfulness and how it relates to classical yoga of Pantanjali. Students will be guided in deepening their mindfulness meditation practice that includes analysis of the Four Establishments of Mindfulness and will develop an advanced asana sequence as part of their practice.
Prerequisites: PEDU 136.

PEDU 161 - Intermediate Fencing (1 Credit)
Basic footwork and bladework for foil and épée along with more complex skills, concepts, terminology, strategy, and understanding of the rules.

PEDU 162 - Zumba Fitness (1 Credit)
Principles of fitness interval training and resistance training applied to maximize caloric output, fat burning and total body toning with a fusion of Latin and International music-dance themes.

PEDU 169 - Geocaching (1 Credit)
History, rules, terminology, and strategy of geocaching. Strategies for seeking as well as creating geocaches.

PEDU 170 - Beginning Latin Dance (1 Credit)
Introductory course to multiple styles of social Latin dancing including Salsa, Merengue and Bachatta. Designed to develop the skills and techniques necessary for social level Latin dancing. Emphasis will be placed on basic social elements of dance, patterns, music, and leading and following.

PEDU 171 - Swing Dance (1 Credit)
Introduction to swing dances originating from the first half of the 20th century such as the Charleston, East Coast Swing, Lindy Hop, Jitterbug, Jive, and The Big Apple.

PEDU 172 - Rock Climbing and Bouldering (1 Credit)
Safe climbing and bouldering techniques. Movement on rock, rope systems, anchors, rappelling, risk management, spotting and lead climbing philosophy. Save use of equipment required for sport climbing and bouldering.

PEDU 173 - Folk and Square Dance (1 Credit)
Fundamental skills and terminology.

PEDU 174 - Social Dance (1 Credit)
Fundamental skills and terminology.

PEDU 175 - Intermediate Social Dance (1 Credit)
Development of skills to an intermediate level in six dances: fox trot, waltz, tango, swing, cha cha, rumba.
Prerequisites: PEDU 174.

PEDU 176 - Clogging (1 Credit)
History, folklore, and skills; individual steps and team routines.

PEDU 177 - Beginning Shag (1 Credit)
Techniques and history of the Shag, South Carolina's state dance. Chronciled development, style variations, and cultural contributions are emphasized.

PEDU 178 - Intermediate Shag Dance (1 Credit)
Introduction to more challenging shag moves for couples, based on steps, turns, spins, and passes. Emphasis on good shag form and rhythm, male lead, female follow, and tight couple positions going through step variations. Steps include Sugarfoot, Boogie Walk, Stagger, Walkup and others.
Prerequisites: PEDU 177.

PEDU 179 - Beginning Belly Dance (1 Credit)
Techniques, history, terminology, and dance combinations/choreography associated with Belly Dance at the fundamental level.

PEDU 180 - Archery (1 Credit)
Fundamentals of target and field archery shooting, history, scoring, and rules.

PEDU 181 - Equestrian (1 Credit)
English hunter-style riding for intermediate students.

PEDU 182 - Backpacking (1 Credit)
Living in the out-of-doors; gear selection, map and compass reading, backpacking, hiking, and camping.

PEDU 183 - Canoeing (1 Credit)
Fundamentals of lake, river, and whitewater canoeing.
PEDU 185 - Beginning Kayaking (1 Credit)
Fundamentals of whitewater kayaking including equipment selection and use, safety techniques, strokes, Eskimo roll, river strategies, rescue procedures, and trip planning.

PEDU 186 - Bicycle Touring (1 Credit)
Fundamental skills and techniques.

PEDU 187 - Rock Climbing (1 Credit)
Fundamentals of rock and mountain climbing including gear selection and use, knots and rope management, anchoring systems, belaying, rappelling, climbing techniques, and safety considerations.

PEDU 188 - Triathlon Training (1 Credit)
Intensive conditioning and cross training to achieve a high level cardiovascular fitness. Biking, running, and swimming in preparation for triathlon event.

PEDU 189 - Spinning (1 Credit)
Spinning to obtain physiological and psychological benefits.

PEDU 190 - Introduction to the Description and Analysis of Human Movement (2 Credits)
Analysis and performance of fundamental motor skills.

PEDU 194 - Educational Gymnastics (1 Credit)
Development of knowledge and skill in educational gymnastics. Designed to establish a content base for elementary and middle school physical education programs.

PEDU 195 - Educational Games (1 Credit)
Development of knowledge and skill in game activities appropriate for the elementary and middle school physical education game setting.

PEDU 196 - Educational Dance (1 Credit)
Development of personal skills in the use of movement for expressive purposes. Designed to establish a content base for elementary school physical education programs.

PEDU 197 - Fit Carolina (1 Credit)
Basic concepts associated with physical activity and the opportunities in community environments to engage in health-promoting and wellness activities.

PEDU 226 - Physical Education for Primary Grades (3 Credits)
Selection and development of appropriate content for elementary school physical education experiences.

PEDU 232 - Philosophy and Principles of Physical Education (3 Credits)
Historical background, current problems, and publications.

PEDU 266L - Athletic Training Lab (1 Credit)
Techniques and skills used in the prevention or protection of injury.

PEDU 275 - Functional Musculoskeletal Anatomy (3 Credits)
Knowledge and skill of orthopedic anatomy relative to muscle, ligament, and tendon origin, insertion, innervation, and action.

PEDU 300 - First Aid and CPR (3 Credits)
Knowledge and skills necessary to meet the guidelines for professional certification. Skills include AED, adult, child, and infant CPR, breathing emergencies, and first aid.

PEDU 301 - Practicum in Physical Education Field Experiences (1-3 Credits)
Supervised field experiences for physical educators. Contract approved by instructor, advisor, and department head is required for undergraduate students.

PEDU 302 - Foundations of Coaching (3 Credits)
The philosophical bases, leadership theory, administrative practice, and organizational problems of competitive athletics.

PEDU 303 - Scientific Bases of Coaching I (3 Credits)
Anatomical, kinesiological, and biomechanical principles affecting performance in competitive athletics; use of biomechanical analysis techniques. Primarily for non-physical education majors who wish to coach.

PEDU 304 - Scientific Bases of Coaching II (3 Credits)
Physiological, psychological, ethical, and sport medicine principles affecting performance in competitive athletics; application of scientific principles. Primarily for non-physical education majors who desire to coach.

PEDU 310 - Emergency Medical Responder (3 Credits)
Knowledge and skills necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. Appropriate decision making about the care to provide in a medical emergency; skills an EMR needs to act as a crucial link in the emergency medical services (EMS) system.

PEDU 312 - Coaching Gymnastics, Volleyball, and Softball (3 Credits)
Prerequisite: PEDU 302 and PEDU 303.

PEDU 313 - Coaching Basketball, Track and Field, and Soccer (3 Credits)
Prerequisite: PEDU 302 and PEDU 303.

PEDU 314 - Coaching Football, Baseball, and Wrestling (3 Credits)
Prerequisite: PEDU 302 and PEDU 303.

PEDU 320 - Practicum in Coaching (3 Credits)
Supervised practical experience in interscholastic coaching settings; concurrent seminar.

PEDU 340 - Practicum in the Instructional Aspects of Physical Education (1 Credit)
Application of instructional principles to small peer group settings using open and closed gross motor skills.

PEDU 341 - Practicum in Instruction of Young Learners in Movement Settings (1 Credit)
Application of curriculum and instructional principles to small group instruction with young learners.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

PEDU 360 - Instructional Aspects of Physical Education (3 Credits)
Instruction in physical education settings, including environmental arrangements, task presentation, content development, and feedback.

Pedagogical Core: PEDU 190, cumulative GPA of 2.50.

PEDU 361 - Practicum in Physical Education Field Experiences (1-3 Credits)
Supervised field experiences for physical educators. Contract approved by instructor, advisor, and department head is required for undergraduate students.

Co-requisite: PEDU 360.

Pedagogical Core: PEDU 190, cumulative GPA of 2.50.

PEDU 355 - Recreational Sports Programming (3 Credits)
Current program elements and techniques in recreational sports.

PEDU 356 - Instructional Aspects of Physical Education (3 Credits)
Instruction in physical education settings, including environmental arrangements, task presentation, content development, and feedback.

Co-requisite: PEDU 340.
PEDU 361 - Instruction of Young Learners in Movement Settings (3 Credits)
Development of knowledge and skills to teach physical education to young learners.
**Prerequisites:** PEDU 340 and PEDU 360, cumulative GPA of 2.75, have met the state basic skills testing requirement for educator preparation program admission.
**Corequisite:** PEDU 341.

PEDU 398 - Seminar in Physical Education (1 Credit)
Various topics related to current events in physical education.

PEDU 399 - Independent Study (1-3 Credits)
Open to sophomores and above. Enrollment and topic to be approved in advance by advisor and instructor. Contract approved by instructor, advisor, and department head is required.
**Graduation with Leadership Distinction:** GLD: Research

PEDU 420 - Motor Learning in Physical Education (3 Credits)
Application of cognitive, sensory, and motor processes related to learning motor skills in physical education and sport settings.

PEDU 440 - Practicum in Secondary School Physical Education (1 Credit)
The application of curriculum and instructional principles to large group instruction in the secondary school.
**Prerequisites:** PEDU 341.
**Corequisite:** PEDU 462.
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Internships

PEDU 445 - Measurement & Evaluation in Physical Education (3 Credits)
The historic background of measurement in physical education; statistical techniques to be used in scoring and interpreting tests; evaluation of measures now available in the field; and the administration of a testing program. Available for undergraduate credit only.
**Prerequisites:** 15 credits in professional physical education, including PEDU 232 and 6 semester hours of professional skill courses.

PEDU 446 - Physical Education Curriculum (3 Credits)
The study of K-12 physical education school curriculum theory, issues, and design.
**Prerequisites:** Cumulative GPA of 2.75, Admission to Directed Teaching Semester.

PEDU 451 - Teaching Physical Education (3 Credits)
Analysis of teaching and learning in physical education.
**Prerequisite or Corequisite:** PEDU 462, PEDU 440.

PEDU 462 - Instruction in Secondary School Physical Education (3 Credits)
Physical education content and processes for the secondary school.
**Prerequisites:** PEDU 341 and PEDU 361, cumulative GPA of 2.75, have met the state basic skills testing requirement for educator preparation program admission.
**Corequisite:** PEDU 440.

**PEDU 479 - Directed Teaching in Physical Education** (12 Credits)
**Prerequisite:** Cumulative GPA of 2.75, Admission to Directed Teaching Semester.
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Internships
**Experiential Learning:** Experiential Learning Opportunity

**PEDU 498 - Advanced Seminar in Physical Education** (1 Credit)
Advanced learning opportunities in professional physical education.
**Prerequisites:** 90 hrs. and permission of instructor.
**Graduation with Leadership Distinction:** GLD: Research

**PEDU 510 - Teaching Health Related Physical Fitness** (3 Credits)
Knowledge and application of processes and principles of health related physical fitness in physical education and sport settings.
**Prerequisites:** EXSC 223/EXSC 224 or BIOL 243/BIOL 244.

**PEDU 515 - Physical Education for Inclusion** (3 Credits)
Designing physical education programs for special populations and for students with special needs.
**Prerequisites:** PEDU 340, PEDU 360.
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy

**PEDU 520 - Observational Analysis of Sports Techniques and Tactics** (3 Credits)
Qualitative and quantitative techniques to observe, describe, analyze, and evaluate human movement in physical education and sports settings.
**Prerequisites:** PEDU 190, EXSC 223, EXSC 224 or BIOL 243, BIOL 244; PHYS 101.

**PEDU 553 - The Organization and Administration of Physical Education** (3 Credits)
Organization of instructional, intramural, interscholastic, and recreational programs, with emphasis on criteria for the evaluation and selection of activities.
**Prerequisites:** 18 credits in physical education, including six semester hours of professional skill courses.

**PEDU 555 - Current Topics in Physical Education** (1-3 Credits)

**PEDU 570 - Human Child/Adolescent Growth** (3 Credits)
Human physical growth and development of children with emphasis on years 4 to 18.
**Prerequisites:** EXSC 223, EXSC 224, or equivalent.

**PEDU 575 - Physical Education for the Classroom Teacher** (3 Credits)
Appropriate movement experiences for children. Not available for physical education majors.
**Prerequisites:** EDTE 201.

**PEDU 577 - Dance Performance** (3 Credits)
Rehearsal, choreographic analysis, and dance performance. All components of dance production—including music, costume, lighting, and scenery—will be considered.
**Cross-listed course:** DANC 577

**PEDU 635 - South Carolina Physical Education Curriculum** (3 Credits)
Development of physical education programs using the South Carolina Physical Education Curriculum Materials.
PEDU 637 - Advanced Theory and Techniques of Coaching Football (3 Credits)
An intensive investigation of current theories of offensive and defensive football. Generalship, strategy, conditioning, staff utilization, film analysis, and practice organization are covered in depth.
Prerequisites: current responsibilities or previous experience in college or high school coaching.

PEDU 638 - Advanced Theory and Techniques of Coaching Basketball (3 Credits)
An intensive investigation of the latest techniques and theories of coaching basketball. Systems of offense and defense, generalship, conditioning, staff utilization, film analysis, and practice organization are covered in depth.
Prerequisites: current responsibilities or previous experience in college or high school coaching.

PEDU 639 - Advanced Theory and Techniques of Coaching Track and Field Events (3 Credits)
A thorough study of the latest techniques of coaching track and field events. Isometric, isotonic, and interval conditioning theories involving the cardiovascular and muscular systems are examined to acquaint the student with varying physiological approaches to conditioning.
Prerequisites: current responsibilities or previous experience in college or high school coaching.

PEDU 640 - Advanced Theory and Techniques of Teaching and Officiating Girls’ Gymnastics (3 Credits)
A thorough study of the latest techniques of teaching and officiating girls’ gymnastics. Balance beam, vaulting, uneven bars, tumbling, dance skills and routines, and officiating methods.

PEDU 650 - The Art and Science of Coaching (3 Credits)
Coaching principles and application to sport programs across a variety of developmental levels.

PEDU 660 - Counseling Student Athletes (3 Credits)
Issues facing student athletes regarding their personal and career development beyond athletics.
Cross-listed course: EDCE 650

Physical Education (Athletic Coaching) Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEDU 155</td>
<td>Personal Training Preparation</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 190</td>
<td>Introduction to the Description and Analysis of Human Movement</td>
<td>2</td>
</tr>
<tr>
<td>PEDU 300</td>
<td>First Aid and CPR</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 340</td>
<td>Practicum in the Instructional Aspects of Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>PEDU 360</td>
<td>Instructional Aspects of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 420</td>
<td>Motor Learning in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 650</td>
<td>The Art and Science of Coaching</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 18

Physical Education, B.S.P.E.

Learning Outcomes
- Students who graduate with a B.S.P.E. in Physical Education should be able to ...
- understand physical education content and disciplinary concepts related to the development of a physically educated person.
- understand how individuals learn and develop and can provide opportunities that support their physical, cognitive, social, and emotional development.
- understand how individuals differ in their approaches to learning, and create appropriate instruction adapted to these differences.
- use an understanding of individual and group motivation and behavior to create a safe learning environment that encourages positive social interaction, active engagement in learning, and self motivation.
- use knowledge of effective verbal, nonverbal, and media communication techniques to enhance learning and engagement in physical activity settings.
- plan and implement a variety of developmentally appropriate instructional strategies to develop physically educated individuals, based on state and national (NASPE K-12) standards.
- understand and use assessment to foster physical, cognitive, social, and emotional development of students in physical activity.
- evaluate the effects of their actions on others (e.g., students, parents/guardians, fellow professionals), and seek opportunities to grow professionally.
- use information technology to enhance learning and to enhance personal and professional productivity.
- foster relationships with colleagues, parents/guardians, and community agencies to support students’ growth and well being.

Admissions

Admission to the Professional Program

All University teacher education students must apply and be admitted to Professional Program/Internship at mid-point(s) in their programs prior to final internship (i.e. student teaching). Requirements for admission vary by program, but for undergraduate students include 60 credit hours with a minimum overall GPA of 2.75, successful completion of a state-approved basic skills examination, and courses as specified by program area.

Students should contact their program area or the College of Education Office of Student Affairs for specific requirements and application deadlines.

Degree Requirements (124 hours)
See College of Education (p. 334) for certification requirements and other academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>11</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>81</td>
</tr>
</tbody>
</table>
1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*must be passed with a grade of C or higher

- any CC-CMW courses (p. 743)

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

*must be passed with a grade of C or higher

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

*must be passed with a grade of C or higher

- Select one of the following options (4 hours):
  - BIOL 101 & BIOL 101L
  - BIOL 110
  - BIOL 120 & BIOL 120L

- Select one of the following options (4 hours):
  - PHYS 101 & PHYS 101L (not CC-SCI-approved)
  - PHYS 201 & PHYS 201L
  - CHEM 102
  - CHEM 111 & CHEM 111L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

The Carolina Core requires either two approved courses in one foreign language or a score of two or higher on the foreign language placement test.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- PSYC 101

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

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1 Carolina Core Stand Alone or Overlay Eligible Requirements

Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (0 hours)

No college-required courses for this program.

3. Program Requirements (11 hours)

Supporting Courses (11 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCY 101</td>
<td>Introductory Sociology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 223</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 223L &amp;</td>
<td>and Anatomy and Physiology I Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 243</td>
<td>Human Anatomy and Physiology I</td>
<td></td>
</tr>
<tr>
<td>&amp; 243L &amp;</td>
<td>and Human Anatomy and Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>EXSC 224</td>
<td>Anatomy and Physiology II</td>
<td></td>
</tr>
<tr>
<td>&amp; 224L &amp;</td>
<td>and Anatomy and Physiology II Lab</td>
<td></td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Human Anatomy and Physiology II</td>
<td></td>
</tr>
<tr>
<td>&amp; 244L &amp;</td>
<td>and Human Anatomy and Physiology Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours: 11

1 Must be passed with a grade of C or higher.
2 Required if PHYS 101 and PHYS 101L were taken to fulfill CC-SCI requirement.

Minor (0-18 hours) optional

A student may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better.

4. Major Requirements (81 hours)

A minimum grade of C is required in all major courses.

Major Courses (33 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPEB 321</td>
<td>Personal and Community Health</td>
<td>3</td>
</tr>
<tr>
<td>HPEB 511</td>
<td>Health Problems in a Changing Society</td>
<td></td>
</tr>
<tr>
<td>EXSC 191</td>
<td>Physical Activity and Health</td>
<td></td>
</tr>
<tr>
<td>PEDU 190</td>
<td>Introduction to the Description and Analysis of Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 232</td>
<td>Philosophy and Principles of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 300</td>
<td>First Aid and CPR</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 420</td>
<td>Motor Learning in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 510</td>
<td>Teaching Health Related Physical Fitness</td>
<td>3</td>
</tr>
</tbody>
</table>
**Teacher Certification Concentration (48 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRD 500</td>
<td>Content Area Literacy PK-12</td>
<td>3</td>
</tr>
<tr>
<td>EDPY 401</td>
<td>Learners and the Diversity of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 303</td>
<td>Perceptual-Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>or PEDU 570</td>
<td>Human Child/Adolescent Growth</td>
<td></td>
</tr>
<tr>
<td>PEDU 226</td>
<td>Physical Education for Primary Grades</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 340</td>
<td>Practicum in the Instructional Aspects of Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>PEDU 341</td>
<td>Practicum in Instruction of Young Learners in Movement Settings</td>
<td>1</td>
</tr>
<tr>
<td>PEDU 360</td>
<td>Instructional Aspects of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 361</td>
<td>Instruction of Young Learners in Movement Settings</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 440</td>
<td>Practicum in Secondary School Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>PEDU 445</td>
<td>Measurement &amp; Evaluation in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 446</td>
<td>Physical Education Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 451</td>
<td>Teaching Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 462</td>
<td>Instruction in Secondary School Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PEDU 479</td>
<td>Directed Teaching in Physical Education</td>
<td>12</td>
</tr>
<tr>
<td>PEDU 515</td>
<td>Physical Education for Inclusion</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 48

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**Physical Education, B.S.P.E. Teacher Certification Concentration**
COLLEGE OF ENGINEERING AND COMPUTING

Hossein Haj-Hariri, Dean
Abel M. Bayoumi, Associate Dean for Corporate Relations
M. Hanif Chaudhry, Associate Dean for International Programs and Continuing Education
Csilla Farkas, Associate Dean for Diversity, Engagement, and Inclusion
Jed S. Lyons, Senior Associate Dean for Academic Affairs
Michael A. Matthews, Senior Associate Dean for Research and Graduate Studies
Ruth B. Patterson, Assistant Dean for Student Services
Paul H. Ziehl, Associate Dean for Research

Baccalaureate Degrees
The College of Engineering and Computing offers the following baccalaureate degrees:

- Aerospace Engineering, B.S.E. (p. 419)
- Biomedical Engineering, B.S. (p. 370)
- Chemical Engineering, B.S.E. (p. 376)
- Civil Engineering, B.S.E. (p. 386)
- Computer Engineering, B.S.E. (p. 395)
- Computer Information Systems, B.S. (p. 397)
- Computer Science, B.S.C.S. (p. 401)
- Electrical Engineering, B.S.E. (p. 407)
- Integrated Information Technology, B.S. (p. 411)
- Mechanical Engineering, B.S.E. (p. 421)

The curricula for all baccalaureate degree programs include a set of courses that fulfill the general education requirements of the University and a set of courses that are specific to the major. Students have the opportunity to pursue specializations within these basic programs.

The programs in Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, and Mechanical Engineering are accredited by the Engineering Accreditation Commission of ABET. The programs in Computer Science, Computer Information Systems and Integrated Information Technology are accredited by the Computing Accreditation Commission of ABET. For additional information, visit http://www.abet.org.

Minors
The College of Engineering and Computing offers the following minors for qualified students:

- Aerospace Engineering Minor (p. 418)
- Applied Computing Minor (p. 393)
- Computer Science Minor (p. 399)
- Data Science Minor (p. 403)
- Electrical Engineering Minor (p. 406)
- Integrated Information Technology Minor (p. 410)
- Nuclear Engineering Minor (p. 424)

A student in the College of Engineering and Computing may add to his or her program of study any minor listed in the Academic Programs A-Z (p. 10) section of this bulletin, provided the minor field of study is distinctly different from the major. Students completing the Computer Information Systems bachelor's degree program automatically earn a minor in Business Information Systems. In most other cases, additional coursework is required to add a minor to a program of study.

Second Baccalaureate Degree
In accordance with the university's Second Baccalaureate Degree policy, students may apply for two undergraduate degrees from the College of Engineering and Computing. In addition, the College of Engineering and Computing cooperates with other colleges in the awarding of two degrees. Often, coursework beyond the policy-specified minimum semester hour difference is required to complete the second degree.

Second Major
In accordance with the university's Second Major policy, qualified students may apply for graduation with double majors in Computer Science and in Mathematics.

Accelerated Graduate Degrees
Accelerated Engineering and Computing Programs
Certain majors within the College of Engineering and Computing offer accelerated bachelors/graduate degree programs in accordance with the procedures given under the "Academic Regulations" section of this bulletin. In such programs, undergraduate students may take course work for graduate credit. The graduate credits may be applied to the student's baccalaureate program. The number of such credits that may be applied towards an undergraduate degree and a graduate degree are determined by the associated degree programs.

Eligible undergraduate students must have completed at least 90 hours of undergraduate course work, must have both a cumulative and major GPA of 3.4 or better, and have the approval of their undergraduate advisor, the Graduate Director of the relevant graduate program, the Dean of Graduate Studies, and the instructor for each course to be taken. The credits must be earned during the student's senior year. Interested students should complete the Application for Admission to an Accelerated Bachelor's/Graduate Study Plan (http://gradschool.sc.edu/forms/G-BGCA.pdf), available from The Graduate School.

Accelerated International Masters in Business Administration
The College of Engineering and Computing and the Moore School of Business support the BS/IMBA program for undergraduate students in the College of Engineering and Computing. Under this program, undergraduate students with appropriate co-op or work experience and a GPA of 3.40, both overall and in their major field of study, may first submit an Application for Admission to an Accelerated Bachelor's/Graduate Study Plan to the Graduate School for acceptance to the accelerated program during the semester in which they will have 90 undergraduate credit hours.

Students must also apply to the Moore School of Business for acceptance to the IMBA program. Satisfactory scores on the GMAT are required. Generally, the equivalent of at least one year of full-time professional experience is required for acceptance to the accelerated BS/IMBA program. Students will generally officially start taking IMBA core courses during the summer after they are within 30 hours of completing the undergraduate degree.
following year will be spent taking elective courses in the IMBA program. The first year of the IMBA program is tightly structured and provides little flexibility in scheduling, including the required internship. Courses remaining to complete the requirements for both programs will be taken during the second year of the IMBA program. Up to 9 hours of graduate courses may be used for dual credit in both programs. The specific courses must be approved by both programs for dual credit.

Cooperative Education
The Cooperative Education Program is an optional program designed to provide career-related work experiences, which can either alternate, or run concurrently with academic semesters. The purpose of the co-op experience is to give direction and enrichment to the student's education, to help the student in career decision making, to improve after-graduation job prospects, and to enable students to pay for a significant portion of their college expenses.

To qualify for the co-op program, students must have completed 30 semester hours and have at least a 2.50 grade point average. The program requires that students participate in at least two work experiences, each equal to one academic semester, and maintain at least a 2.50 grade point average. Students are encouraged to enroll with the Engineering and Computing Career Services Office during their freshman year. More information is available from the Career Center's co-op website (http://sc.edu/about/offices_and_divisions/career_center/).

General Education Requirements
A student must satisfy all Carolina Core (p. 743) requirements to receive a baccalaureate degree from the College of Engineering and Computing. Specific courses and guidelines to satisfy these requirements are determined by each degree program in the College. Individual degree programs may also have additional requirements that could be considered as contributing to general education.

Progression Requirements
Any program-specific progression requirement policies are described in that program's section of this bulletin. Students who are within 30 hours of completing all degree requirements should request a senior check from the Student Services Office.

Program GPA Requirement
The College of Engineering and Computing requires that students have a Program GPA of 2.00 or better. A listing of courses included in the Program GPA for each degree program is maintained in the respective academic program section of this bulletin. The Program GPA computation will include all repeated grades, with the exception of those for which the university approved grade forgiveness has been applied. A student not meeting these requirements must change major or transfer out of the College of Engineering and Computing. Click the program link below for specific Program GPA information.

- Aerospace Engineering, B.S.E. (p. 419)
- Biomedical Engineering, B.S. (p. 370)
- Chemical Engineering, B.S.E. (p. 376)
- Civil Engineering, B.S.E. (p. 386)
- Computer Engineering, B.S.E. (p. 395)
- Computer Information Systems, B.S. (p. 397)
- Computer Science, B.S.C.S. (p. 401)

- Electrical Engineering, B.S.E. (p. 407)
- Integrated Information Technology, B.S. (p. 411)
- Mechanical Engineering, B.S.E. (p. 421)

Repetition of Coursework
A student cannot repeat courses from the College of Engineering and Computing in which they earned a grade of C or better. In addition, a student cannot repeat any course from the College a second time. For this purpose, withdrawal from a course with a grade of W is not regarded as enrollment in that course. A student that does not satisfactorily complete a degree-required College course within two attempts must change major or transfer out of the College of Engineering and Computing.

A student can repeat no more than four courses from the College of Engineering and Computing in order to satisfy the requirements for any degree from the College, regardless of satisfactory work. For this purpose, withdrawal from a course with a grade of W is not regarded as enrollment in that course. A student not meeting these requirements must change major or transfer out of the College of Engineering and Computing.

Departments
- Biomedical Engineering (p. 367)
- Chemical Engineering (p. 374)
- Civil and Environmental Engineering (p. 383)
- Computer Science and Engineering (p. 389)
- Electrical Engineering (p. 404)
- Integrated Information Technology (p. 409)
- Mechanical Engineering (p. 413)

Biomedical Engineering
Department Website (https://sc.edu/study/colleges_schools/engineering_and_computing/study/biomedical_engineering/)

Melissa Moss, Director

Biomedical engineers are involved in the design and improvement of products and procedures that promote improved health. Contributions of biomedical engineers range from the design of artificial organs to the discovery of new therapeutic pharmaceuticals to the development of surgical procedures and associated instrumentation. The Departments of Chemical Engineering and Mechanical Engineering collaborate to offer the Bachelor of Science in Biomedical Engineering. The curriculum provides a strong foundation in the basic and applied sciences, as well as in the liberal arts, to provide students with a well-balanced education. Increasing emphasis is placed upon the application of engineering principles to biological systems in the junior and senior years. The curriculum provides the opportunity to engage in technical electives, laboratory course components, and a capstone design experience. Additional elective components and the design experience can be tailored to the specific interests of the student.

Bachelor’s/Master’s Degrees Accelerated Program
The Bachelor’s/Master’s Degrees Accelerated Program in Biomedical Engineering allows undergraduate students to complete both the B.S. degree and M.S. degree in as few as five years. The use of dual credit-
courses that can be used toward both degrees enables acceleration of the program, reducing the total enrollment of the student by one semester.

Biomedical Engineering undergraduate students may apply for approval of an accelerated education plan in the semester in which they will complete 90 hours of undergraduate course work. In addition, students must have a sufficient foundation in biomedical engineering course work to enable them to take graduate-level courses. University and program regulations stipulate that applicants must have a minimum GPA of 3.40, both overall and in biomedical engineering courses. Students in the accelerated program must maintain a GPA of 3.40 while pursuing the B.S. degree.

Students applying to this program must submit to The Graduate School a completed “Application for Admission to a Combined Bachelor’s/Master’s Education Plan” (G-BMPA) with endorsements of the undergraduate advisor, research advisor and the program graduate director. The dean of The Graduate School has final authority for approving accelerated education plans. A "Bachelor's/Master's Degree Accelerated Plan Course Work Authorization" form must be submitted for each semester in which one or more of these courses are taken.

Participation in the accelerated program does not require or insure acceptance into The Graduate School. Students wishing to continue towards a master’s degree in biomedical engineering at USC must apply formally to the Graduate School by submitting the appropriate application and all required supporting documents. Students in the accelerated program will be eligible for graduate assistantships upon admission to The Graduate School.

Only graduate-level courses (numbered 500 and above, including up to 3 credit hours of project/research work) satisfying both B.S. and Master’s degree requirements may be used for dual credit. BMEN core graduate courses (excluding 1-hour seminar courses and thesis preparation, BMEN 799) or courses from list of the approved BMEN graduate electives (refer to the graduate student handbook) may be used for graduate-level coursework. No more than twelve credit hours may be used as dual credit. The graduate courses used for dual credit must be taken during the student’s final undergraduate year.

**Programs**
- Biomedical Engineering, B.S. (p. 370)

**Courses**

**BMEN 101 - Introduction to Biomedical Engineering (2 Credits)**
Introduction to topics comprising the field of Biomedical Engineering, including their ethical impacts. Familiarization with resources and basic skills necessary to succeed in this major and field.

**Prerequisite or Corequisite:** MATH 141.

**BMEN 202 - Professional Development and Ethics in Biomedical Engineering II (1 Credit)**
Communication in the field of biomedical engineering, including technical writing and oral presentations with emphasis on professional development, articulation of a critical position, and productive intellectual exchange. Careers in the field of biomedical engineering. Planning and managing group projects. Ethical issues associated with biomedical engineering.

**Prerequisites:** BMEN 101.

**BMEN 211 - Computational Tools for Modeling Biomedical Systems (3 Credits)**
Introduction to modern computational modeling tools used in biomedical engineering. Analysis and visualization using engineering software as applied to problems of interest in biomedical engineering. Material balance modeling of biomedical systems.

**Prerequisites:** C or better in MATH 141.

**Prerequisite or Corequisite:** CHEM 111 or CHEM 141.

**BMEN 212 - Fundamentals of Biomedical Systems (3 Credits)**
Fundamentals of static equilibrium, free body diagrams, force and momentum balances; viscoelastic mechanical behavior and models of viscoelasticity; introduction to linear circuit analysis, filters, and amplifiers.

**Prerequisites:** C or better in both CHEM 111 or CHEM 141, and MATH 141.

**BMEN 240 - Cellular and Molecular Biology with Engineering Applications (4 Credits)**
Introduction to molecular, cellular, and physical biology principles and concepts and application of engineering principles to further the understanding of biological systems. Protein and nucleic acid structure and function; DNA replication, mutations, and repair; transcription, translation, and post-translational processing; cellular organization; molecular transport and trafficking; and cellular models.

**Prerequisites:** C or better in BIOL 101, C or better in CHEM 112 or CHEM 142, and C or better in MATH 142.

**BMEN 260 - Introduction to Biomechanics (3 Credits)**

**Prerequisites:** C or better in BMEN 211, C or better in MATH 241, C or better in PHYS 211.

**BMEN 263 - Introduction to Biomaterials (3 Credits)**
Mathematical and theoretical analysis of the mechanical properties and functions of materials, including those of biological origin and clinical relevance. Stress, strain, mechanical properties of materials, axial loading, torsion, bending, and stress/strain transformations. Application of the categories and methodology of solid mechanics to study biological tissues and events.

**Prerequisites:** C or better in BMEN 212, C or better in MATH 241, C or better in PHYS 211.

**BMEN 271 - Introduction to Biomaterials (3 Credits)**
Properties of metals, ceramics, polymers, natural materials and composites; methods to modify surface and bulk properties of biomaterials; mechanisms of degradation in physiological environments; cell- and tissue-biomaterial interactions; host response to implanted biomaterials; blood-biomaterial interactions; rational design of biomaterials for specific biomedical applications.

**Prerequisites:** CHEM 333, C or better in BMEN 240 or BIOL 302, C or better in BMEN 260 or BMEN 263, C or better in BMEN 290.
BMEN 290 - Thermodynamics of Biomolecular Systems (3 Credits)
First, second, and third law of thermodynamics; free energy and chemical equilibrium in biological processes; phase equilibrium for biomedical systems; energy and metabolism; membrane potentials and depolarization.
Prerequisites: C or better in BMEN 240 or BMEN 211, C or better in MATH 241, C or better in PHYS 211.

BMEN 302 - Professional Development and Ethics in Biomedical Engineering (2 Credits)
Analysis and discussion of biomedical industries, standards, regulations, products, and patents. Ethical issues associated with research, introduction of new products, animal subjects, and human subjects.
Prerequisites: BMEN 101.

BMEN 303 - Professional Development and Ethics in Biomedical Engineering (1 Credit)
Analysis and discussion of industries, products, patents, industrial inventiveness, and biomedical research. Ethical issues associated with research, introduction of new products, animal subjects, and human subjects.
Prerequisites: BMEN 101.

BMEN 321 - Biomonitoring and Electrophysiology (3 Credits)
Basic electric circuits and equivalent cell model circuits used in biomonitoring and electrophysiology. Ohm’s and Kirchoff’s Laws. Applications of electrical components, such as operations amplifiers, filter, and Wheatstone bridge, in biomonitoring and electrophysiology. Origins of bioelectricity. Biopotential and electrochemistry including Nernst and Goldman-Hudgkin-Katz equations for describing membrane potential of nerve and muscle cells. Ion transport involved in maintaining cell pH, action potential, muscle contraction, sensory perception.
Prerequisites: PHYS 212, C or better in BMEN 211 or BMEN 212, C or better in BMEN 240 or BIOL 302, C or better in MATH 242.

BMEN 342 - Infectious Disease & Immunology for Biomedical Engineers (3 Credits)
Qualitative and quantitative aspects of infectious diseases; principles of diagnosis and control. Elements of human immunological response and immune disorders; influence on biomedical engineering of explants and implants.
Prerequisites: BIOL 101.

BMEN 345 - Human Anatomy and Physiology for Biomedical Engineers (4 Credits)
Foundations for biomedical engineering with a focus on human anatomy and physiology. Introduction to the inter-relationships between tissue/organ structure and function; demonstration of how an engineering approach can promote understanding of these relationships. Recent biomedical engineering advances and their relations to underlying anatomy and physiology.
Prerequisites: BMEN 271, C or better in BIOL 302 or BMEN 240.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

BMEN 346 - Medical Microbiology for Biomedical Engineers (3 Credits)
Qualitative and quantitative aspects of human system based medical microbiology; principles of diagnosis and control of representative human diseases. Elements of human immunological response and immune disorders.
Prerequisites: BMEN 240 or BIOL 302.

BMEN 354 - Biotransport (3 Credits)
Basics of convective and diffusive transport applied to biological and biomedical systems. The effect of fluid flow and mass transport upon biochemical interactions. Scaling and design of biotransport systems.
Prerequisites: ECHE 320 or EMCH 360 or ENCP 360, C or better in MATH 242.

BMEN 361 - Biomedical Instrumentation (4 Credits)
Principles of and experimental measurements using bioinstrumentation. Data acquisition, processing, and statistical analysis. Lab and electrical safety. Analytical methods including hematology, human fluids analysis, biosensors, chromatographic techniques, electrophoresis, dialysis, spectrophotometry, fluorometry, and microscopy. Applications of bioinstrumentation in disease diagnosis.
Prerequisites: BMEN 321, STAT 509.

BMEN 363 - Biomedical Instrumentation (3 Credits)
Sensing and measurement of biophysical and biochemical properties and signals in the human body for quantitative molecular, cell, and tissue analysis. Overview on the theory, design and application of common biomedical instrumentation used for diagnosis, treatment, and scientific study of physiological parameters in clinical medicine and biomedical research.
Prerequisites: BMEN 321.

BMEN 381 - Biomedical Engineering Laboratory I (2 Credits)
Introduction to laboratory techniques and tools used for physiological measurements in biomedical engineering, with focus on biological, physical, and biomaterial methods. Data processing and analysis, as well as effective communication of results in written and oral form.
Prerequisites: BMEN 260 or BMEN 263, STAT 509.
Prerequisite or Corequisite: BMEN 271.

BMEN 382 - Biomedical Engineering Laboratory II (2 Credits)
Introduction to laboratory techniques and tools used for physiological measurements in biomedical engineering, with focus on measurement of biosignals and common analytical methods employed in biomedical research and clinical settings. Data processing and analysis, as well as effective communication of results in written and oral form.
Prerequisites: BMEN 321, BMEN 381.
Prerequisite or Corequisite: BMEN 363.

BMEN 389 - Special Topics in Biomedical Engineering for Undergraduates (1-3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topic varies.

BMEN 391 - Kinetics in Biomolecular Systems (3 Credits)
Kinetic theory applied to biomedical systems, including enzymatic reactions, cell growth, and kinetic models of biological systems.
Prerequisites: CHEM 333 or CHEM 550 or BIOL 541; C or better in BMEN 290, C or better in MATH 242.

BMEN 392 - Fundamentals of Biochemical Engineering (3 Credits)
Biological systems are used in chemical industries for a wide variety of applications, including the formation of important products (e.g. pharmaceuticals), sensor technology, degradation, and waste water treatment. This class will provide an overview of materials needed to investigate and model biosystems.
Prerequisites: CHEM 333.
BMEN 411 - Modeling and Simulation of Biomedical Systems (3 Credits)
Introduction to modern computational modeling tools used in biomedical engineering. Analysis, visualization and image processing using engineering software as applied to problems of interest in biomedical engineering.
Prerequisites: BMEN 263, BMEN 271, and BMEN 354 with a minimum grade of D.

BMEN 427 - Senior Biomedical Engineering Design I (3 Credits)
Integrated team work/project management, “voice of the patient,” design specifications, design functions, design concepts, economic factors, concept selection and product architecture. The initial feasibility study, selection of the final design approach, and preliminary specifications are required by the end of the semester.
Prerequisites: BMEN 271, BMEN 345, BMEN 354, BMEN 361 or BMEN 363.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

BMEN 428 - Senior Biomedical Engineering Design II (3 Credits)
Design for manufacturability, ergonomic and aesthetic considerations, prototype construction and testing, fabrication and biological testing of tissue engineered constructs, statistical methods/design of experiments, ethics/product liability and environmental impact. The final engineering design (specifications, drawings, bill of materials, including assessment of economics) will be completed by the end of the semester. Both written and oral reports are to be provided.
Prerequisites: BMEN 427.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

BMEN 499 - Independent Research (1-3 Credits)
Summer internship, REU, or co-op experience in biomedical engineering. Students enroll in this course following their research experience and prepare a summary paper and research seminar on their technical accomplishments. A maximum of 3 credits may be applied toward the degree.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

BMEN 532 - Micro/nanofluids and Lab-on-a-Chip (3 Credits)
Basic fluid mechanics, capillary, drop and micro/nanoparticle, electrokinetics; micropump, mixer, preconcentrator, electrophoresis, microactuator and particle manipulator; sensors for pressure, velocity, concentration, temperature in environmental monitoring/biodefence, clinical diagnostics, drug discovery/delivery.
Prerequisites: D or better in CHEM 112 and CHEM 112L or CHEM 142; D or better in PHYS 212.

BMEN 537 - Bio Nano/Micro Electro-Mechanical Systems (3 Credits)
Fundamentals of nano- and microfabrication, metrology and their applications in biomedical engineering and science. The fabrication covers photolithography, nano/microfabrication for nano/microstructures, etching and additive techniques, MEMS integration and packaging, etc. Metrology focuses on characterization of nanostructures with imaging technologies.
Prerequisites: D or better in CHEM 112 and CHEM 112L or CHEM 142; D or better in PHYS 212.

BMEN 541 - Delivery of Bioactive Agents (3 Credits)
Routes of administration; mechanisms of drug absorption and biological barriers; pharmacokinetic modeling of drug distribution; drug excretion and biotransformation; design and evaluation of controlled release systems, targeted release systems, and responsive release systems.
Prerequisites: BIOL 302, CHEM 333, MATH 142.

BMEN 546 - Advanced Biomechanics (3 Credits)
Mathematical and theoretical analysis of the mechanical properties and functions of soft biological tissues to include arterial vessels.
Prerequisites: BMEN 260 or BMEN 263.

BMEN 547 - Immunoengineering (3 Credits)
Engineering approaches to study and control immune reactions and their applications in therapy and diagnostics for infectious disease, cancer, allergy, autoimmunity, and transplantation.
Prerequisites: C or better in BMEN 240 or BIOL 302.

BMEN 548 - Cardiovascular System: From Development to Disease (3 Credits)
Survey of cardiovascular development, anatomy, physiology and pathology. Recent advances in our understanding of the basic mechanisms of congenital cardiovascular defects and cardiovascular disease. Engineering principles, detection and treatment of cardiovascular defects.
Prerequisites: BMEN 240 or BIOL 302.

BMEN 565 - Advanced Fluid Mechanics (3 Credits)
Molecular basis of bioregenerative engineering; biomaterial design; biocompatibility assessment; cell isolation and characterization; rapid prototyping, scaffold fabrication, and biofabrication; protein and gene delivery; bioreactor design; transport in biological tissues; applications of tissue engineering in regenerative medicine.

BMEN 589 - Special Topics in Biomedical Engineering (1-3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topic varies.

Biomedical Engineering, B.S.
Program Educational Objectives
Graduates of the Biomedical Engineering Program will:

1. Practice in a professional career or pursue an advanced or professional degree in which they are contributing to scientific, professional, and/or local communities through the improvement of human health.
2. Advance their careers by engaging in teamwork, effective communication, and continued learning to expand their professional development and technical understanding.

Learning Outcomes
- Ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.
• Ability to acquire and apply new knowledge as needed, using appropriate learning strategies.
• Ability to communicate effectively with a range of audiences.
• Ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
• Ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

Academic Standards

Program GPA

Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Biomedical Engineering B.S. program: all Biomedical Engineering Major courses, all courses used to satisfy a Biomedical Engineering Elective, all courses used to satisfy an Engineering Elective, and ECHE 320 or equivalent.

Admissions

Entrance Requirements

Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

The last 25% of a student’s degree must be completed in residence at the University, and at least half of the hours in the student’s major courses and in the student’s minor courses (if applicable) must be taken at the University.

Degree Requirements (130-142 hours)

See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

<table>
<thead>
<tr>
<th>Program of Study</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>48</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>48</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
- ENGL 101 must be passed with a grade of C or higher
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (8 hours)
must be passed with a grade of C or higher
- MATH 141
- MATH 142

SCI – Scientific Literacy (8 hours)
must be passed with a grade of C or higher
- BIOL 101
- BIOL 101L
- CHEM 111
- CHEM 111L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)
Students must take 6 credit hours of Biomedical Engineering electives. A listing of acceptable engineering electives is maintained in the Biomedical Engineering office and on its website. Engineering electives include all of the following:

- Any overlay or stand-alone CC-VSR course (p. 743)

Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 34 hours.

2. College Requirements (0 hours)

No college-required courses for this program.

3. Program Requirements (48 hours)

Supporting Courses (48 hours)

Foundational Courses (33 hours)

Complete all of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112L</td>
<td>General Chemistry II Lab (must be passed with a grade of C or higher)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 550</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 541</td>
<td>Biochemistry</td>
<td></td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 211</td>
<td>Essentials of Physics I (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 211L</td>
<td>Essentials of Physics I Lab (must be passed with a grade of C or higher)</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II</td>
<td>3</td>
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<tr>
<td>PHYS 212L</td>
<td>Essentials of Physics II Lab</td>
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<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<td>3</td>
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<tr>
<td>ECHE 320</td>
<td>Chemical Engineering Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>ENCP 360</td>
<td>Fluid Mechanics</td>
<td></td>
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<tr>
<td>EMCH 360</td>
<td>Fluid Mechanics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 33

Biomedical Engineering Electives (6 hours)

Students must take 6 credit hours of Biomedical Engineering electives. Of these 6 credit hours, at most 3 credit hours may come from BMEN 499. A list of acceptable Biomedical Engineering electives is maintained in the Biomedical Engineering office and on its website. These include the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMEN 342</td>
<td>Infectious Disease &amp; Immunology for Biomedical Engineers</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 346</td>
<td>Medical Microbiology for Biomedical Engineers</td>
<td>3</td>
</tr>
</tbody>
</table>

BMEN 389 | Special Topics in Biomedical Engineering for Undergraduates | 1-3     |
BMEN 392 | Fundamentals of Biochemical Engineering | 3       |
BMEN 499 | Independent Research | 1-3     |
BMEN 546 | Delivery of Bioactive Agents | 3       |
BMEN 547 | Immunoengineering | 3       |
BMEN 548 | Cardiovascular System: From Development to Disease | 3       |
BMEN 565 | Advanced Biomechanics | 3       |
BMEN 572 | Tissue Engineering | 3       |
BMEN 589 | Special Topics in Biomedical Engineering | 1-3     |
EMCH 580 | Mechanics of Solid Biomaterials | 3       |
EXSC 335 | Biomechanics of Human Movement | 3       |

Total Credit Hours 33-39

Engineering Elective (3 hours)

Students must take 3 credit hours of engineering electives. A listing of acceptable engineering electives is maintained in the Biomedical Engineering office and on its website. Engineering electives include all Biomedical Engineering Electives and the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 206</td>
<td>Scientific Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 215</td>
<td>UNIX/Linux Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 317</td>
<td>Computer Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 330</td>
<td>Programming Language Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 350</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 355</td>
<td>Foundations of Computation</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 500</td>
<td>Computer Programming and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 551/ MATH 562</td>
<td>Theory of Computation</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 555</td>
<td>Algorithms in Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 561/ MATH 527</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 563</td>
<td>Systems Simulation</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 300</td>
<td>Chemical Process Principles</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 321</td>
<td>Heat-Flow Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 322</td>
<td>Mass Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 372</td>
<td>Introduction to Materials</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 430</td>
<td>Chemical Engineering Kinetics</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 440</td>
<td>Separation Process Design</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 456</td>
<td>Computational Methods for Engineering Applications</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 550</td>
<td>Chemical-Process Dynamics and Control</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 567</td>
<td>Process Safety, Health, and Loss Prevention</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 572</td>
<td>Polymer Processing</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 573</td>
<td>Next Energy</td>
<td>3</td>
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<tr>
<td>ECIV 350</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
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<tr>
<td>ECIV 521</td>
<td>Numerical Methods in Mechanics</td>
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<tr>
<td>ELCT 321</td>
<td>Digital Signal Processing</td>
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<tr>
<td>ELCT 331</td>
<td>Control Systems</td>
<td>3</td>
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<tr>
<td>ELCT 361</td>
<td>Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 363</td>
<td>Introduction to Microelectronics</td>
<td>3</td>
</tr>
</tbody>
</table>
Biomedical Engineering Electives, all Engineering Electives and the
Engineering office and on its website. Technical Electives include all
of acceptable technical electives is maintained in the Biomedical
Students must take 6 credit hours of technical electives. A listing

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 350</td>
<td>Computer Modeling of Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 111</td>
<td>Introduction to Computer-Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 308</td>
<td>Introduction to Finite Element Stress Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 327</td>
<td>Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 330</td>
<td>Mechanical Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 332</td>
<td>Kinematics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 354</td>
<td>Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 371</td>
<td>Materials</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 497</td>
<td>Design of Thermal Systems</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 501</td>
<td>Engineering Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 502</td>
<td>Engineering Analysis II</td>
<td>3</td>
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<tr>
<td>EMCH 507</td>
<td>Computer-Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 508</td>
<td>Finite Element Analysis in Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 516</td>
<td>Control Theory in Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 528</td>
<td>Product Safety Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 529</td>
<td>Sustainable Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 532</td>
<td>Intermediate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 535</td>
<td>Robotics in Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 554</td>
<td>Intermediate Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 555</td>
<td>Instrumentation for Nuclear Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 557</td>
<td>Introduction to Radiation Shielding and Sources</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 560</td>
<td>Intermediate Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 571</td>
<td>Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 575</td>
<td>Adaptive Materials and Smart Structures</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 580</td>
<td>Mechanics of Solid Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 584</td>
<td>Advanced Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 585</td>
<td>Introduction to Composite Materials</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 586</td>
<td>Experimental Stress Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 541L</td>
<td>Biochemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 550L</td>
<td>Biochemistry Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

Technical Electives (6 hours)

Students must take 6 credit hours of technical electives. A listing
of acceptable technical electives is maintained in the Biomedical
Engineering office and on its website. Technical Electives include all
Biomedical Engineering Electives, all Engineering Electives and the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 102</td>
<td>Biological Principles II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 102L</td>
<td>Biological Principles II Laboratory</td>
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</tr>
<tr>
<td>BIOL 250</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 250L</td>
<td>Microbiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 302L</td>
<td>Cell and Molecular Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 303</td>
<td>Fundamental Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 415</td>
<td>Comparative Vertebrate Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 460</td>
<td>Advanced Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 505</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 530</td>
<td>Histology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 531/</td>
<td>Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>ENHS 661/EPID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>661</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 534</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 541L</td>
<td>Biochemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 550L</td>
<td>Biochemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 553</td>
<td>Genomics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 610</td>
<td>Hallmarks of Cancer</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 612</td>
<td>Virology - Classical and Emerging Concepts</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 620</td>
<td>Immunobiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 635</td>
<td>Neuropathology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 653</td>
<td>Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 655</td>
<td>Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 656</td>
<td>Experimental Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 662</td>
<td>Signal Transduction and Pathogenesis</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 665</td>
<td>Human Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 667</td>
<td>Molecular and Genetic Mechanisms of Disease Pathogenesis</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 690</td>
<td>Ultramicroscopy</td>
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</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Analysis</td>
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<tr>
<td>CHEM 321L</td>
<td>Quantitative Analysis Laboratory</td>
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</tr>
<tr>
<td>CHEM 322</td>
<td>Analytical Chemistry</td>
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</tr>
<tr>
<td>CHEM 331L</td>
<td>Essentials of Organic Chemistry Laboratory I</td>
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</tr>
<tr>
<td>or CHEM 333L</td>
<td>Comprehensive Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Essentials of Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>or CHEM 333L</td>
<td>Comprehensive Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 340</td>
<td>Elementary Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 542</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Physical Biochemistry</td>
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</tr>
<tr>
<td>CHEM 550L</td>
<td>Biochemistry Laboratory</td>
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<tr>
<td>EXSC 330</td>
<td>Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 562</td>
<td>Impairments of the Human Motor System</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344</td>
<td>Applied Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 526</td>
<td>Numerical Linear Algebra</td>
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</tr>
<tr>
<td>MATH 374</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 520</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 524</td>
<td>Nonlinear Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 544</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 546</td>
<td>Algebraic Structures I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 547</td>
<td>Algebraic Structures II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 550</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 552</td>
<td>Applied Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 514</td>
<td>Optics, Theory, and Applications</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 515</td>
<td>Mathematical Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 516</td>
<td>Mathematical Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 517</td>
<td>Computational Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 521</td>
<td>Biophysics</td>
<td>4</td>
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<tr>
<td>STAT 516</td>
<td>Statistical Methods II</td>
<td>3</td>
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<tr>
<td>STAT 518</td>
<td>Nonparametric Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>STAT 519</td>
<td>Sampling</td>
<td>3</td>
</tr>
<tr>
<td>STAT/MGSC 520</td>
<td>Forecasting and Time Series</td>
<td>3</td>
</tr>
<tr>
<td>STAT 523</td>
<td>Financial Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>STAT/MGSC 525</td>
<td>Statistical Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>STAT 528</td>
<td>Environmental Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 530</td>
<td>Applied Multivariate Statistics and Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>STAT/CSCE 582</td>
<td>Bayesian Networks and Decision Graphs</td>
<td>3</td>
</tr>
</tbody>
</table>
4. Major Requirements (48 hours)

Major Courses (48 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMEN 101</td>
<td>Introduction to Biomedical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>BMEN 212</td>
<td>Fundamentals of Biomedical Systems (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 240</td>
<td>Cellular and Molecular Biology with Engineering Applications (must be passed with a grade of C or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BMEN 263</td>
<td>Introduction to Biomechanics (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 271</td>
<td>Introduction to Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 290</td>
<td>Thermodynamics of Biomolecular Systems (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 303</td>
<td>Professional Development and Ethics in Biomedical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>BMEN 321</td>
<td>Biomonitoring and Electrophysiology</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 345</td>
<td>Human Anatomy and Physiology for Biomedical Engineers</td>
<td>4</td>
</tr>
<tr>
<td>BMEN 354</td>
<td>Biotransport</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 363</td>
<td>Biomedical Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 381</td>
<td>Biomedical Engineering Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>BMEN 382</td>
<td>Biomedical Engineering Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>BMEN 391</td>
<td>Kinetics in Biomolecular Systems</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 411</td>
<td>Modeling and Simulation of Biomedical Systems</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 427</td>
<td>Senior Biomedical Engineering Design I</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 428</td>
<td>Senior Biomedical Engineering Design II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours: **48**

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Biomedical Engineering, B.S (https://sc.edu/about/offices_and_divisions/advising/documents-major_maps/2020-2021/2020_biomedical-engineer_major_map.pdf)

**Chemical Engineering**

Department Website (https://www.sc.edu/study/colleges_schools/engineering_and_computing/departments/chemical_engineering/)

John W. Weidner, Chair

Chemical engineers are involved in the design of materials and devices and in the design and operation of plants which manufacture a wide variety of chemicals, including plastics, textile fibers, fuels, and pharmaceuticals. The work of the chemical engineer can be highly diverse, ranging from research on pollution prevention to the marketing of new chemical products.

The department offers the Bachelor of Science in Engineering with a major in chemical engineering. The department, jointly with the Department of Mechanical Engineering, offers a major in biomedical engineering.

**Accelerated B.S.E./M.E. Education Plan**

The Accelerated B.S.E./M.E. Plan in Chemical Engineering allows students to complete both the B.S.E. degree and a Master of Engineering degree in chemical engineering in as few as five years. The use of dual credit-courses that can be used toward both degrees-enables acceleration of the program, reducing the total enrollment of the student by one semester.

Chemical engineering students may apply for approval of an accelerated education plan in the semester in which they will complete 90 hours of undergraduate course work. In addition, students must have a sufficient foundation in chemical engineering course work to enable them to take graduate-level courses. University and department regulations stipulate that applicants must have a minimum GPA of 3.40, both overall and in chemical engineering courses. Students may apply by submitting an accelerated education plan, an application for senior privilege, and a copy of a Graduate School application to the graduate director in chemical engineering. The dean of The Graduate School has final authority for approving accelerated education plans.

Only graduate-level courses (numbered 500 and above) may be used for dual credit. No more than nine credit hours may be used as dual credit. The graduate courses used for dual credit must be taken during the student’s final undergraduate year. The student graduates with the B.S.E. degree after completing the B.S.E. degree requirements. At that time, the student is admitted to the graduate program with up to nine hours of graduate credit.

**Programs**

- Chemical Engineering, Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/chemical-engineering/chemical-engineering-minor/)
- Chemical Engineering, B.S.E. (p. 376)

**Courses**

ECHE 101 - Introduction to Chemical Engineering (2 Credits)
Introduction to chemical engineering, with emphasis on chemical engineering. Problem-solving techniques, including the use of computer tools. Basic engineering design methods.

ECHE 201 - Exploring the Chemical Engineering Workplace (1 Credit)
Identification of career interests and active exploration of careers in chemical engineering.

Prerequisite or Corequisite: ECHE 300.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ECHE 203 - Research in Chemical Engineering (1 Credit)
Introduction to research in Chemical Engineering, effective literature search, communication of results, lab safety, and research ethics.

Graduation with Leadership Distinction: GLD: Research
ECHE 300 - Chemical Process Principles (3 Credits)
Material and energy balances in the chemical process industry. Properties of gases, liquids, and solids. Two one-hour lectures and one three-hour laboratory period devoted to problem solving.
Prerequisites: MATH 141.
Prerequisite or Corequisite: CHEM 112 or CHEM 142.

ECHE 310 - Introductory Chemical Engineering Thermodynamics (3 Credits)
First law and second law of thermodynamics. Thermodynamic properties of single component systems. Analysis of power and refrigeration cycles.
Prerequisites: C or better in ECHE 300.

ECHE 311 - Chemical Engineering Thermodynamics (3 Credits)
Mass, energy, and entropy balance analysis of chemical engineering systems; evaluation of thermodynamic property changes of pure materials; solution thermodynamics of single-phase multicomponent systems; phase and chemical reaction equilibrium.
Prerequisites: C or better in ECHE 310 or ENCP 290.

ECHE 320 - Chemical Engineering Fluid Mechanics (3 Credits)
Fluid statics and dynamics with emphasis on chemical engineering applications.
Prerequisites: PHYS 211.

Prerequisite or Corequisite: MATH 241.

ECHE 321 - Heat-Flow Analysis (3 Credits)
Theory of heat transmission; mechanism, generation, distribution, and measurement; use of theory in practical equipment design.
Prerequisites: C or better in ECHE 320 or ENCP 360; C or better in MATH 242.

Prerequisite or Corequisite: D or better in ECHE 456.

ECHE 322 - Mass Transfer (3 Credits)
Molecular diffusion in fluids; diffusion in laminar and turbulent flow; momentum, transport analogies; interfacial mass transfer; design applications including humidification and absorption.
Prerequisites: D or better in ECHE 321.

ECHE 372 - Introduction to Materials (3 Credits)
Overview of the fundamental chemical aspects of materials; role of materials in applications in modern society by case studies of advances in new materials and processes.
Prerequisites: CHEM 112.

ECHE 389 - Special Topics in Chemical Engineering (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topic varies.

ECHE 400 - Chemical Engineering Kinetics (3 Credits)
Concepts of chemical kinetics, batch and flow reactors, catalysts and reactor design.
Prerequisites: C or better in ECHE 311.

Prerequisite or Corequisite: D or better in ECHE 321.

ECHE 440 - Separation Process Design (3 Credits)
Design of stagewise chemical separation cascades; analysis of binary and ternary systems; multicomponent separations, plate and column specification procedures; distillation, crystallization, extraction, and leaching.
Prerequisites: C or better in ECHE 300.

Prerequisite or Corequisite: ECHE 311.

ECHE 442 - Adsorption Fundamentals and Processes (3 Credits)
Basic principles of adsorption and adsorption processes including adsorbents, thermodynamics, kinetics, fixed bed adsorption and cyclic adsorption processes.

ECHE 456 - Computational Methods for Engineering Applications (3 Credits)
Introduction to advanced computational tools for the analysis of chemical engineering systems. Initial and boundary value problems related to heat and mass transfer, reaction engineering, and parameter estimation.
Prerequisite or Corequisite: D or better in MATH 242.

ECHE 460 - Chemical Engineering Laboratory I (3 Credits)
Review of technical-report writing and presentation techniques; topics in heat transfer, fluid mechanics, and thermodynamics; verification of theoretical results and determination of design parameters. One lecture and six laboratory hours.
Prerequisite or Corequisite: ECHE 311, ECHE 321.

ECHE 461 - Chemical Engineering Laboratory II (3 Credits)
Continuation of ECHE 460; topics in mass transfer, kinetics, and process control.
Prerequisites: ECHE 460.

Prerequisite or Corequisite: ECHE 430, ECHE 440.

ECHE 465 - Chemical-Process Analysis and Design I (3 Credits)
Economics of chemical engineering projects related to typical corporate goals and objectives; process-flowsheet development techniques; review of shortcut design techniques; selection of profitability criteria.
Prerequisite or Corequisite: ECHE 430, ECHE 440.

ECHE 466 - Chemical-Process Analysis and Design II (3 Credits)
Continuation of ECHE 465; computer-aided design of chemical processes; written and oral presentation of a comprehensive design project.
Prerequisites: ECHE 430, ECHE 440, ECHE 465.

Prerequisite or Corequisite: ECHE 322, ECHE 550, ECHE 567.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ECHE 497 - Thesis Preparation (1-3 Credits)
Completion of the thesis requirements for the departmental undergraduate research track. A maximum of three credits may be applied toward a degree.
Prerequisites: Three credit hours of ECHE 499, acceptance into the departmental undergraduate research track, and consent of instructor.

ECHE 498 - Topics in Chemical Engineering (1-3 Credits)
Reading and research on selected topics in chemical engineering. Course content varies and will be announced in the schedule of classes by title. May be repeated two times as topics vary. Pass-Fail grading.
Prerequisites: upper division standing.

Graduation with Leadership Distinction: GLD: Research
ECHE 499 - Special Problems (1-3 Credits)
Individual investigation or studies of special topics. A maximum of six credits may be applied toward a degree. Advance approval of project proposal by advisor and instructor.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ECHE 520 - Chemical Engineering Fluid Mechanics (3 Credits)
Multi-phase pressure drop, phase contacting, flow through porous media, fluidization, mixing, and turbulence.

Prerequisites: ECHE 320 or ENCP 360.

ECHE 521 - Computational Fluid Dynamics for Engineering Applications (3 Credits)
Introduction to the use of computational fluid dynamics codes to analyze flow, heat, and mass transfer problems of practical engineering applications.

Prerequisites: ECHE 320 or EMCH 360 or ECIV 360 or ENCP 360 or AESP 265.

ECHE 530 - Intermediate Chemical Engineering Kinetics (3 Credits)
Intermediate concepts of chemical kinetics, batch and flow reactors, catalysts and reactor design, including non-ideal systems.

Prerequisites: C or better in ECHE 311.

Prerequisite or Corequisite: D or better in ECHE 321.

ECHE 540 - Intermediate Separation Process Design (3 Credits)
Intermediate level design of stagewise chemical separation cascades; analysis of binary and ternary systems; multicomponent separations, plate and column specification procedures; distillation, crystallization, extraction, and leaching.

Prerequisites: C or better in ECHE 300.

Prerequisite or Corequisite: D or better in ECHE 311.

ECHE 550 - Chemical-Process Dynamics and Control (3 Credits)
Fundamental physical and chemical principles in mathematically modeling the dynamic response of chemical processes; feedforward and feedback control systems; design of control schemes for selected chemical processes.

Prerequisites: C or better in ECHE 300 and MATH 242; D or better in ECHE 456.

ECHE 567 - Process Safety, Health and Loss Prevention (3 Credits)
Reliability, availability, and fault-tree analyses, risk indices, hazard evaluation, vapor cloud modeling, toxicology, material safety classification and regulations, individual/corporate ethical responsibilities.

Prerequisite or Corequisite: ECHE 466.

ECHE 571 - Corrosion Engineering (3 Credits)
Basic principles of corrosion engineering developed from a chemical engineering approach to thermodynamics, kinetics, mass transfer, and potential theory.

Prerequisites: ECHE 311.

ECHE 572 - Polymer Processing (3 Credits)
Industrial polymers with emphasis on their characterization and on the modeling of the major polymer fabrication processes.

ECHE 573 - Next Energy (3 Credits)
An examination of energy technologies that will enable society to move from an economy based on fossil fuels to one based on sustainable energy.

ECHE 574 - Combustion (3 Credits)
Fundamental process and applications related to the broad field of combustion and energy generation including emissions control technologies.

Prerequisites: ECHE 430.

ECHE 589 - Special Advanced Topics in Chemical Engineering (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topic varies.

Chemical Engineering, B.S.E.

Program Educational Objectives
Within six years of graduation, our graduates are expected to achieve one or more of the following milestones:

1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. Communicate effectively with a range of audiences
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

Learning Outcomes
- Students will apply knowledge of mathematics and chemistry to typical problems encountered in chemical engineering practice.
- Students will apply knowledge of engineering to typical problems encountered in chemical engineering practice.
- Students will demonstrate the use of chemical engineering science fundamentals in developing solutions of problems typical of those encountered in chemical engineering practice.
- Students will be able to design and conduct laboratory experiments, as well as to analyze and interpret data using factorial design methods.
- Students will be able to use chemical process simulators and other techniques, skills, and modern engineering tools necessary for chemical engineering practice.
- Students will be able to design a chemical engineering system, unit, or chemical process to meet desired needs.
- Students will be able to present technical material through oral presentations with visual aids.
- Students will be able to present technical material including analysis and conclusions through technical reports.
- Students will be able to work in multi-functional teams.
- Students will be able to find information and to learn independently.
• Students will demonstrate knowledge of and adherence to professional and ethical responsibility.
• Students will be able to describe how economic, political, and social issues affect and are affected by the chemical engineering profession.
• Students will comprehend the topics and ideas of familiar subjects in a foreign language.

Academic Standards

Program GPA
Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Chemical Engineering B.S.E. program: all Lower Division Engineering courses, all Chemical Engineering Major courses, and all Engineering Electives.

Admissions

Entrance Requirements
Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of “C” or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission must have a cumulative 2.50 GPA on a 4.00 scale to enter at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of “C” or better.

The last 25% of a student’s degree must be completed in residence at the University, and at least half of the hours in the student’s major courses and in the student’s minor courses (if applicable) must be taken at the University.

Degree Requirements (131-138 hours)
See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>64-65</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>33</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
• ENGL 101 - must be passed with a grade of C or higher
• ENGL 102

ARP – Analytical Reasoning and Problem Solving (8 hours)
must be passed with a grade of C or higher
• MATH 141
• MATH 142

SCI – Scientific Literacy (8 hours)
must be passed with a grade of C or higher
• CHEM 111 & CHEM 111L
• PHYS 211 & PHYS 211L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.
• CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
• PHIL 325 (CMS/VSR overlay)

INF – Information Literacy (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)
• PHIL 325 (CMS/VSR overlay)

1 Carolina Core Stand Alone or Overlay Eligible
Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 34 hours.
2. College Requirements (0 hours)

No college-required courses for this program.

3. Program Requirements (64-65 hours)

Supporting Courses (64-65 hours)

Foundational Courses (20 hours)

Complete all of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112L</td>
<td>General Chemistry II Lab (must be passed with a grade of C or higher)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212L</td>
<td>Essentials of Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours</td>
<td>20</td>
</tr>
</tbody>
</table>

Chemistry Electives (6 hours)

A list of acceptable Chemistry Elective courses is maintained in the department office and on its website. These include the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 533</td>
<td>Comprehensive Organic Chemistry III</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 542</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 545</td>
<td>Physical Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 550</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 555</td>
<td>Biochemistry/Molecular Biology I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 556</td>
<td>Biochemistry/Molecular Biology II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 621</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 622</td>
<td>Forensic Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 623</td>
<td>Introductory Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 624</td>
<td>Aquatic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 633</td>
<td>Introduction to Polymer Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 643</td>
<td>Computational Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 644</td>
<td>Materials Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 655</td>
<td>Metabolic Biochemistry of Human Disease</td>
<td>3</td>
</tr>
</tbody>
</table>

Chemistry Laboratory Electives (2 hours)

A list of acceptable Chemical Laboratory Elective courses is maintained in the department office and on its website. These include the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321L</td>
<td>Quantitative Analysis Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Analytical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 331L</td>
<td>Essentials of Organic Chemistry Laboratory I</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 333L</td>
<td>Comprehensive Organic Chemistry Laboratory I</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Essentials of Organic Chemistry Laboratory II</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 334L</td>
<td>Comprehensive Organic Chemistry Laboratory II</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 541L</td>
<td>Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 542L</td>
<td>Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 550L</td>
<td>Biochemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 621L</td>
<td>Instrumental Analysis Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Computer Programming Elective (3-4 hours)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 145</td>
<td>Algorithmic Design I</td>
<td>4</td>
</tr>
<tr>
<td>CSCE 206</td>
<td>Scientific Applications Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Lower Division Engineering (14 hours)

Complete all of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECHE 101</td>
<td>Introduction to Chemical Engineering</td>
<td>2-3</td>
</tr>
<tr>
<td>or ENCP 101</td>
<td>Introduction to Engineering I</td>
<td>2-3</td>
</tr>
<tr>
<td>ECHE 300</td>
<td>Chemical Process Principles (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 310</td>
<td>Introductory Chemical Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Thermodynamics (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 290</td>
<td>Thermodynamic Fundamentals</td>
<td></td>
</tr>
<tr>
<td>ECHE 311</td>
<td>Chemical Engineering Thermodynamics (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 320</td>
<td>Chemical Engineering Fluid Mechanics (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 360</td>
<td>Fluid Mechanics</td>
<td></td>
</tr>
</tbody>
</table>

Professional Development Elective (1 hour)

A list of acceptable Professional Development Elective courses is maintained in the department office and on its website. The list includes the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECHE 202</td>
<td>Exploring the Chemical Engineering Workplace</td>
<td>1</td>
</tr>
<tr>
<td>ECHE 203</td>
<td>Research in Chemical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>BMEN 202</td>
<td>Professional Development and Ethics in Biomedical Engineering II</td>
<td>1</td>
</tr>
</tbody>
</table>

Engineering Electives (6 hours)

A list of acceptable Engineering Elective courses is maintained in the department office and on its website. The list includes the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENCP 200</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 200</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 200</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>or EMCH 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENCP 210</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 210</td>
<td>Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMCH 310</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 260</td>
<td>Introduction to the Mechanics of Solids</td>
<td></td>
</tr>
<tr>
<td>ECIV 220</td>
<td>Mechanics of Solids</td>
<td></td>
</tr>
<tr>
<td>EMCH 260</td>
<td>Solid Mechanics</td>
<td></td>
</tr>
<tr>
<td>ENCP 330</td>
<td>Introduction to Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>or EMCH 330</td>
<td>Mechanical Vibrations</td>
<td></td>
</tr>
<tr>
<td>ENCP 440</td>
<td>Sustainable Development in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 460</td>
<td>Special Topics in Engineering and Computing</td>
<td>1-6</td>
</tr>
<tr>
<td>ENCP 481</td>
<td>Project Management</td>
<td>1</td>
</tr>
<tr>
<td>ENCP 499</td>
<td>Interdisciplinary Technical Elective</td>
<td>1-3</td>
</tr>
<tr>
<td>ENCP 540</td>
<td>Environmentally Conscious Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 211</td>
<td>Computational Tools for Modeling Biomedical Systems</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 240</td>
<td>Cellular and Molecular Biology with Engineering Applications</td>
<td>4</td>
</tr>
<tr>
<td>BMEN 260</td>
<td>Introduction to Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 271</td>
<td>Introduction to Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 290</td>
<td>Thermodynamics of Biomolecular Systems</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 300 and above, except BMEN 301 and BMEN 303</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCE 211</td>
<td>Digital Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 212</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 274</td>
<td>Robotic Applications and Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 313</td>
<td>Embedded Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 317</td>
<td>Computer Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 520</td>
<td>Database System Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 567</td>
<td>Visualization Tools</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 582</td>
<td>Bayesian Networks and Decision Graphs</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 587</td>
<td>Big Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 202</td>
<td>Exploring the Chemical Engineering Workplace or ECHE 203</td>
<td>1</td>
</tr>
<tr>
<td>or ECHE 203</td>
<td>Research in Chemical Engineering</td>
<td></td>
</tr>
<tr>
<td>ECHE 372</td>
<td>Introduction to Materials</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 389</td>
<td>Special Topics in Chemical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 456</td>
<td>Computational Methods for Engineering Applications</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 497</td>
<td>Thesis Preparation</td>
<td>1-3</td>
</tr>
<tr>
<td>ECHE 499</td>
<td>Special Problems</td>
<td>1-3</td>
</tr>
<tr>
<td>ECHE 520</td>
<td>Chemical Engineering Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 571</td>
<td>Corrosion Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 572</td>
<td>Polymer Processing</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 573</td>
<td>Next Energy</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 574</td>
<td>Combustion</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 589</td>
<td>Special Advanced Topics in Chemical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 220</td>
<td>Electrical Engineering for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 221</td>
<td>Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 222</td>
<td>Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 300 and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECIV 300 and above, except ECIV 360</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>EMCH 300 and above, except EMCH 354 and EMCH 360</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Technical Electives (9 hours)

A list of acceptable Technical Elective courses is maintained in the department office and on its website. The list includes the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENCP 102</td>
<td>Introduction to Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>or EMCH 111</td>
<td>Introduction to Computer-Aided Design</td>
<td></td>
</tr>
<tr>
<td>MATH 374</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 500 and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 500 and above, except STAT 541 and STAT 591</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOC 101</td>
<td>Biological Principles I</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 101L</td>
<td>Biological Principles I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 102</td>
<td>Biological Principles II</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 102L</td>
<td>Biological Principles II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 120</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 120L</td>
<td>Laboratory in Human Biology</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 200 and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVR 231</td>
<td>Introduction to Sustainability Management and Leadership</td>
<td>3-4</td>
</tr>
<tr>
<td>ENVR 321</td>
<td>Environmental Pollution and Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 331</td>
<td>Integrating Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 300 and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCI 300 and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 300 and above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCE 145</td>
<td>Algorithmic Design I</td>
<td>4</td>
</tr>
<tr>
<td>CSCE 146</td>
<td>Algorithmic Design II</td>
<td>4</td>
</tr>
<tr>
<td>CSCE 210</td>
<td>Computer Hardware Foundations</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 215</td>
<td>UNIX/Linux Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>CSCE 350</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

Liberal Arts Electives (3 hours)

At least one course used to satisfy the Liberal Arts Elective or a Carolina Core AIU, CMS, GHS, GSS, VSR requirement must be either at

1. the 300-level or above and in the same field of study as one of the other courses, or
2. 270 or above in the field of ENGL. Liberal Arts Electives include the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>All approved Carolina Core Courses for AIU, CMS, GFL, GHS, GSS, and VSR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AERO 401</td>
<td>National Security/Leadership Responsibilities/ Commissioning Preparation (POC cadets only)</td>
<td>4</td>
</tr>
<tr>
<td>AERO 402</td>
<td>Preparation for Active Duty (POC cadets only)</td>
<td>4</td>
</tr>
<tr>
<td>AFAM 201</td>
<td>Introduction to African American Studies: Social and Historical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>AFAM 202</td>
<td>Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFAM 335</td>
<td>The American Civil Rights Movement</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101</td>
<td>Primates, People, and Prehistory</td>
<td>3</td>
</tr>
</tbody>
</table>
degree requirements:

Students may pursue any of the following concentrations by choosing specified engineering, technical, and chemistry elective courses to fulfill degree requirements:

- Concentration in Biomolecular Engineering
- Concentration in Energy
- Concentration in Interdisciplinary Engineering
- Concentration in Materials
Concentration in Environmental Engineering
Concentration in Numerical Methods and Computing

To fulfill the requirements for any concentration, a student must complete five courses (15 credit hours) in one area. Consult the department website or advising handbook for the most up to date list of approved concentration courses. Although these courses are designated as electives in the B.S.E. curriculum in chemical engineering, certain courses in the lists are designated as “required” with respect to fulfilling concentration requirements. Also note that the lists may not include all of the prerequisites for some of the listed courses.

Concentration in Biomolecular Engineering (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 302</td>
<td>Cell and Molecular Biology ¹</td>
<td>3</td>
</tr>
<tr>
<td>or BMEN 240</td>
<td>Cellular and Molecular Biology with Engineering Applications</td>
<td></td>
</tr>
<tr>
<td>CHEM 550</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

BMEN 271 Introduction to Biomaterials
BMEN 391 Kinetics in Biomolecular Systems

Select two of the following: 6

BIOL 303 Fundamental Genetics
BIOL 460 Advanced Human Physiology
BIOL 505 Developmental Biology
BIOL 530 Histology
BIOL 665 Human Molecular Genetics
BMEN 271 Introduction to Biomaterials
BMEN 321 Biomonitoring and Electrophysiology
BMEN 342 Infectious Disease & Immunology for Biomedical Engineers
BMEN 345 Human Anatomy and Physiology for Biomedical Engineers
BMEN 346 Medical Microbiology for Biomedical Engineers
BMEN 389 Special Topics in Biomedical Engineering for Undergraduates
BMEN 391 Kinetics in Biomolecular Systems
BMEN 392 Fundamentals of Biochemical Engineering
BMEN 499 Independent Research
BMEN 546 Delivery of Bioactive Agents
BMEN 547 Immunoenigineering
BMEN 548 Cardiovascular System: From Development to Disease
BMEN 565 Advanced Biomechanics
BMEN 572 Tissue Engineering
BMEN 589 Special Topics in Biomedical Engineering ¹

Total Credit Hours 15

¹ Multiple distinct 389/589 courses may be counted.

Concentration in Interdisciplinary Engineering (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select five courses from the following: 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMCH 200</td>
<td>Statics</td>
<td></td>
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<tr>
<td>or ECIV 200</td>
<td>Statics</td>
<td></td>
</tr>
<tr>
<td>or ENCP 200</td>
<td>Statics</td>
<td></td>
</tr>
<tr>
<td>EMCH 220</td>
<td>Mechanical Engineering Fundamentals for Non-Majors</td>
<td></td>
</tr>
<tr>
<td>EMCH 260</td>
<td>Solid Mechanics</td>
<td></td>
</tr>
<tr>
<td>EMCH 310</td>
<td>Dynamics</td>
<td></td>
</tr>
<tr>
<td>MATH 526</td>
<td>Numerical Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td></td>
</tr>
<tr>
<td>CSCE 206</td>
<td>Scientific Applications Programming</td>
<td></td>
</tr>
<tr>
<td>or ECHE 456</td>
<td>Computational Methods for Engineering Applications</td>
<td></td>
</tr>
<tr>
<td>ELCT 220</td>
<td>Electrical Engineering for Non-Majors</td>
<td></td>
</tr>
<tr>
<td>or ELCT 221</td>
<td>Circuits</td>
<td></td>
</tr>
<tr>
<td>ECHE 372</td>
<td>Introduction to Materials</td>
<td></td>
</tr>
<tr>
<td>or EMCH 371</td>
<td>Materials</td>
<td></td>
</tr>
<tr>
<td>CHEM 621</td>
<td>Instrumental Analysis</td>
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</tr>
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</table>

Total Credit Hours 15

Concentration in Materials (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following: 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECHE 389</td>
<td>Special Topics in Chemical Engineering (designated materials courses)</td>
<td></td>
</tr>
<tr>
<td>ECHE 571</td>
<td>Corrosion Engineering</td>
<td></td>
</tr>
<tr>
<td>ECHE 572</td>
<td>Polymer Processing</td>
<td></td>
</tr>
<tr>
<td>ECHE 589</td>
<td>Special Advanced Topics in Chemical Engineering (designated materials courses)</td>
<td></td>
</tr>
</tbody>
</table>

Select three of the following: 9

CHEM 511 Inorganic Chemistry
Concentration in Numerical Methods and Computing (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 633</td>
<td>Introduction to Polymer Synthesis</td>
<td></td>
</tr>
<tr>
<td>CHEM 644</td>
<td>Materials Chemistry</td>
<td></td>
</tr>
<tr>
<td>ELCT 363</td>
<td>Introduction to Microelectronics</td>
<td></td>
</tr>
<tr>
<td>ELCT 563</td>
<td>Semiconductor Electronic Devices</td>
<td></td>
</tr>
<tr>
<td>EMCH 573</td>
<td>Introduction to Nuclear Materials</td>
<td></td>
</tr>
<tr>
<td>ECHE 389</td>
<td>Special Topics in Chemical Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(designated materials electives)</td>
<td></td>
</tr>
<tr>
<td>ECHE 499</td>
<td>Special Problems (approved materials-related</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>research project, up to 3 credit hours</td>
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</tr>
<tr>
<td>ECHE 571</td>
<td>Corrosion Engineering</td>
<td></td>
</tr>
<tr>
<td>ECHE 572</td>
<td>Polymer Processing</td>
<td></td>
</tr>
<tr>
<td>ECHE 589</td>
<td>Special Advanced Topics in Chemical</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Engineering (designated materials electives)</td>
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</tr>
</tbody>
</table>

Total Credit Hours 15

1 Multiple distinct 389/589 courses may be counted.

Concentration in Environmental Engineering (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECIV 350</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 362</td>
<td>Introduction to Water Resources Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 558</td>
<td>Environmental Engineering Process Modeling</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 623</td>
<td>Introductory Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 624</td>
<td>Aquatic Chemistry</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>ENVR 231</td>
<td>Introduction to Sustainability Management and Leadership</td>
<td></td>
</tr>
<tr>
<td>ENVR 321</td>
<td>Environmental Pollution and Health</td>
<td></td>
</tr>
<tr>
<td>ENVR 322</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>ENVR 331</td>
<td>Integrating Sustainability</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 15

Concentration in Numerical Methods and Computing (15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BMEN 211</td>
<td>Computational Tools for Modeling Biomedical Systems</td>
<td></td>
</tr>
<tr>
<td>EMCH 201</td>
<td>Introduction to Applied Numerical Methods</td>
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</tr>
<tr>
<td>ENCP 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td></td>
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<tr>
<td>Select four of the following:</td>
<td>12</td>
<td></td>
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<tr>
<td>CSCE 145</td>
<td>Algorithmic Design I</td>
<td></td>
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<tr>
<td>CSCE 146</td>
<td>Algorithmic Design II</td>
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<tr>
<td>MATH 374</td>
<td>Discrete Structures</td>
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<tr>
<td>or MATH 57 + Discrete Mathematics I</td>
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<tr>
<td>MATH (500-level or higher)</td>
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<tr>
<td>GEOL 575</td>
<td>Numerical Modeling for Earth Science</td>
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</tr>
<tr>
<td>Applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMCH 501</td>
<td>Engineering Analysis I</td>
<td></td>
</tr>
<tr>
<td>ECHE 589</td>
<td>Special Advanced Topics in Chemical</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Engineering (depending on topic coverage, multiple versions possible)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 15

B.S.E. with Distinction

The B.S.E. with Distinction is available to students majoring in chemical engineering who wish to participate in significant research and/or design activities in chemical engineering with a faculty mentor.

A minimum GPA of 3.50 in major courses, 3.50 in all engineering courses, and 3.50 overall is required at the time the student applies to enter the departmental undergraduate research track.

The student should apply to enter the departmental undergraduate research track and choose the members of the thesis committee as early as possible but in all cases at least one year before submitting and defending the thesis. The thesis committee will consist of a thesis advisor, who must be a tenure-track faculty member in chemical engineering, and two other tenure-track or research faculty members in chemical engineering or in any other department.

By the end of the semester in which the student is admitted into the research track, a short description of the research must be agreed upon by the thesis committee and the student, and filed in the college office. Projects involving research and/or design are acceptable. The design projects or research projects for ECHE 465, ECHE 466, ECHE 567, or other courses are not acceptable as the thesis. The student must also choose three credit hours of engineering or technical elective courses related to the thesis topic. The course(s) must be approved by the thesis committee and completed by the student at least one semester before the thesis is submitted and defended.

Before submitting and defending the thesis, the student must have completed three credit hours of ECHE 499 under the thesis advisor, preferably one credit hour per semester. During the semester in which the thesis is submitted and defended the student must also complete three credit hours of ECHE 497, one credit hour under each of the three members of the thesis committee. At least two months before submitting and defending the thesis, the student must present a progress report to the thesis committee orally and in writing.

By the end of his/her last semester, the student must have presented the research at a national meeting of a professional society (such as AIChe, ACS, ECS, etc.), at Discovery Day at USC, or at a comparable venue. The student must also submit a written thesis describing the research and defend it orally before the thesis committee. The defense must be announced at least one week in advance and be open to the general public.

Students who successfully fulfill all of these requirements with a GPA of at least 3.50 in the three hours of ECHE 497, 3.50 in all engineering courses, and 3.50 overall, will be awarded their degree with “Distinction in Chemical Engineering” upon graduation.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Chemical Engineering, B.S.E.
Civil and Environmental Engineering

Department Website (https://sc.edu/study/colleges_schools/engineering_and_computing/study/civil_and_environmental_engineering/)

Juan M. Caicedo, Chair

The Department of Civil and Environmental Engineering offers a Bachelor of Science in Engineering degree with a major in civil engineering. Civil engineering is the planning, design, and construction of projects that define a civilization. Civil engineers have built landmarks that now stand as tributes to the profession’s creative spirit and ingenuity. Civil engineering is everywhere: the buildings in which we live and work, the roads on which we travel, the water we drink, the bridges we cross. Civil engineers design industrial and commercial buildings, bridges, towers, dams, tunnels, and mass transportation facilities. They manage urban planning and public works projects, perform air quality monitoring, and plan and design waste collection and handling systems.

Program Educational Objectives ¹

1. Graduates of the civil engineering program should demonstrate their continuing successful practice as civil engineers and/or their pursuit of post baccalaureate education and/or their engagement in other professional careers that involve the application of engineering concepts.
2. Graduates of the civil engineering program should demonstrate a commitment for continuing professional development and life-long learning.
3. Graduates of the civil engineering program should demonstrate the ability to advance within their profession to positions of greater responsibility and leadership.

The first two years of the undergraduate curriculum form the necessary foundation in mathematics, computer programming, the physical sciences, and basic engineering sciences, together with courses in the liberal arts, to provide the student with a well-balanced educational experience. The upper-division civil engineering program includes the study of construction materials, structural analysis and design, soil behavior, systems analysis, water supply, and pollution control. The department offers elective courses in such areas of engineering as environmental, geotechnical, structural, transportation, and water resources.

The civil engineering graduate is prepared to enter the job market with federal, state, and municipal agencies and with private consulting firms involved with aspects of planning, design, construction, or environmental control. Students may, following graduate study, also pursue careers in teaching and in research and development.

¹ The Civil and Environmental Engineering Department at the University of South Carolina uses the term “program educational objective” to describe the expected accomplishments of our students in a few years (three to five years) following graduation. The term “student learning outcome” is used to describe the knowledge and skills at the time of graduation.

Bachelor’s/Master’s Accelerated Program

A combined B.S.E./M.S. or M.E. degree program is available to undergraduate civil and environmental engineering students with GPAs of 3.50 or above and 90 or more hours earned toward their baccalaureate degrees. Up to 6 credit hours of 500-level or above courses may be applied toward both the B.S.E. and M.S. or M.E. in Civil Engineering degree requirements. The approval of the student’s advisor and the Department of Civil and Environmental Engineering graduate director are required. Questions about this program may be directed to the civil and environmental engineering graduate director.

Programs

• Civil Engineering, B.S.E. (p. 386)

Courses

ECIV 101 - Introduction to Civil Engineering (3 Credits)
Fundamental concepts in each of the disciplines of civil engineering are discussed. Critical thinking skills are formally fostered by hands-on experiences and group discussions.

ECIV 111 - Introduction to Engineering Graphics and Visualization (3 Credits)
Principles and practice of visualization and graphical representation using modern computer-aided design tools.

ECIV 200 - Statics (3 Credits)
Prerequisites: C or better in MATH 141.

ECIV 201 - Computational Methods for Civil Engineering (3 Credits)
The use of computational tools and techniques for solving civil and environmental engineering problems. Overview of numerical methods including roots of equations, systems of linear equations, interpolation, and integration. Use of spreadsheets to analyze civil and environmental systems.
Prerequisites: C or better in MATH 142 and ECIV 200.

ECIV 210 - Dynamics (3 Credits)
Kinematics of particles and rigid bodies. Vector representation of force and motion. Free-body diagrams, application of energy and momentum methods to solve problems. Rigid body and central force motion.
Prerequisites: C or better in ECIV 200 and in MATH 142.

ECIV 220 - Mechanics of Solids (3 Credits)
Prerequisites: C or better in ECIV 200 or ENCP 200 and in MATH 142.

ECIV 300 - Civil Engineering Measurements (3 Credits)
Theory and application of plane surveying and mapping techniques. Lecture plus laboratory.
Prerequisites: MATH 241.

ECIV 303 - Civil Engineering Materials (3 Credits)
Mechanical and thermal properties of mineral aggregates, cements, concrete, timber, asphalt, metals, and plastics.
Prerequisites: C or better in ECIV 220 or ENCP 260.

ECIV 303L - Civil Engineering Materials Laboratory (1 Credit)
Experiments, exercises, and demonstrations to accompany ECIV 303. Three hours per week.
Prerequisites: ECIV 201 or ENCP 201.
Corequisite: ECIV 303.
ECIV 307 - Professional Development for Civil Engineers (3 Credits)
Prerequisite or Corequisite: D or better in ECIV 320, ECIV 330, ECIV 340, ECIV 350, or ECIV 362.

ECIV 320 - Structural Analysis I (3 Credits)
Prerequisites: ECIV 201; MATH 242; C or better in ECIV 220.

ECIV 325 - Structural Steel Design (3 Credits)
Behavior and design of steel beams, columns, and tension members; strength and stability; design of connections using welded, bolted and riveted construction.
Prerequisites: C or better in ECIV 320.

ECIV 327 - Reinforced Concrete Design (3 Credits)
Behavior and design of reinforced concrete beams, columns, continuous beams and one way slabs, and footings.
Prerequisites: C or better in ECIV 320.

ECIV 330 - Introduction to Geotechnical Engineering (3 Credits)
Engineering properties of soil and rock; hydraulic conductivity, flow nets, drainage design; consolidation theory, shearing strength of soil.
Prerequisites: C or better in either ECIV 220 or ENCP 260.

ECIV 330L - Geotechnical Laboratory (1 Credit)
Laboratory associated with ECIV 330. Soil mechanics experiments, exercises, and demonstrations. Three hours per week.
Prerequisites: ECIV 201 or ENCP 201.
Corequisite: ECIV 330.

ECIV 340 - Introduction to Transportation Engineering (3 Credits)
Transportation design, planning, and operational analysis, including roadway, airway, and railway systems; transportation elements, including traveled way, vehicle, control, terminals, and advanced technology; traffic data collection, interpretation, and analysis.
Prerequisites: D or better in ECIV 201 or D or better in ENCP 201 and D or better in STAT 509 or D or better in STAT 511.

ECIV 340L - Transportation Engineering Laboratory (1 Credit)
This course covers the principles of distances, elevations and angles that pertain to roadways, basic theories in engineering measurements and surveying calculations, and an introduction to mapping, for transportation engineering applications.
Prerequisite or Corequisite: ECIV 340.

ECIV 350 - Introduction to Environmental Engineering (3 Credits)
Concepts of environmental engineering, including air and water pollution, solid and hazardous waste disposal, and noise pollution. Qualitative and quantitative development of engineering techniques for pollution control.
Prerequisites: D or better in CHEM 111 or CHEM 141; C or better in Math 142

ECIV 350L - Introduction to Environmental Engineering Laboratory (1 Credit)
Physical, chemical, and biological analysis of water and wastewater. Three laboratory hours per week.
Prerequisites: ECIV 201.
Corequisite: ECIV 350.

ECIV 360 - Fluid Mechanics (3 Credits)
Principles of fluid statics and dynamics. Conservation of mass, momentum, and energy. Similarity and dimensional analysis, open channel flow, lift and drag forces, and introduction to turbulent flow.
Prerequisite or Corequisite: ECIV 210 and MATH 241.

ECIV 362 - Introduction to Water Resources Engineering (3 Credits)
Application of fluid mechanic principles to water resources engineering problems; pipe systems, pumps, open channel flow, peak runoff, seepage, hydraulic structures.
Prerequisites: C or better in either ECIV 360 or ENCP 360.

ECIV 362L - Introduction to Water Resources Engineering Laboratory (1 Credit)
Experiments, exercises, and demonstrations on flow in pipes and open channels, pumps, flow measurement, seepage, and infiltration.
Prerequisites: ECIV 201.
Corequisite: ECIV 362.

ECIV 405 - System Applications in Civil Engineering (3 Credits)
Systems approach to analysis and design; application of engineering economic principles to the evaluation of design alternatives; deterministic modeling and optimization emphasizing civil engineering applications.
Prerequisites: D or better in ECIV 201 or ENCP 201.

ECIV 426 - Structural Design (3 Credits)
Design of steel structures including elastic and plastic design concepts. Design of concrete structures including continuous members and long columns.
Prerequisites: ECIV 325 or ECIV 327.

ECIV 470 - Civil Engineering Design (4 Credits)
Application of hydraulic, geotechnical, and structural principles in design; project scheduling; cost estimation; ethics; environmental and social impact; design drawings; report documents.
Prerequisites: D or better in ECIV 307

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ECIV 490 - Special Topics (0-3 Credits)
Course content varies and will be announced in the schedule of classes by course title. May be repeated as topic varies. A maximum of twelve credits may be applied towards a degree.
Graduation with Leadership Distinction: GLD: Research

ECIV 497 - Fundamentals of Engineering Preparation (1 Credit)
ECIV 499 - Independent Study in Civil and Environmental Engineering (1-3 Credits)
Individual investigation or studies of special topics. A maximum of three credits may be applied toward a degree.
Prerequisites: approval of project proposal by instructor; USC/GPA 2.8.

Graduation with Leadership Distinction: GLD: Research

ECIV 502 - Life Cycle Assessment of Civil and Environmental Engineering Systems (3 Credits)
The steps of conducting and interpreting an environmental life cycle assessment on civil and environmental engineering systems. Fundamentals associated with conducting a life cycle assessment, including goal and scope, inventory analysis, impact assessment, and interpretation.
Prerequisites: D or better in ECIV 350 and D or better in either ECIV 303, ECIV 325, ECIV 330, ECIV 340 or ECIV 362.

ECIV 503 - Structural Modeling and Experimental Methods (3 Credits)
Introduction of structural modeling; strain gauge instrumentation; force, displacement, acceleration, pressure, temperature measurements; concrete and steel modeling; size effects; analysis of experimental data.
Prerequisites: ECIV 327.

ECIV 520 - Structural Analysis II (3 Credits)
Advanced methods of structural analysis with emphasis on matrix methods. Development of the generalized matrix force and matrix displacement methods of static analysis, with applications to trusses and frames.
Prerequisites: ECIV 320.

ECIV 521 - Numerical Methods in Mechanics (3 Credits)
Prerequisites: D or better in ECIV 201 or ENCP 201.

ECIV 524 - Structural Vibrations (3 Credits)
Response of single- and multiple-degree of freedom structurally dynamic systems to impact, harmonic, wind, and seismic excitations.
Prerequisites: ECIV 320.

ECIV 526 - Timber and Masonry Design (3 Credits)
Basic engineering properties of timber and masonry materials, design methods and philosophies for timber and masonry structures. Particular attention is paid to current codes, specifications and analysis.
Prerequisites: C or better in ECIV 320.

ECIV 530 - Foundation Analysis and Design (3 Credits)
Subsurface investigation procedures. Theoretical and practical aspects of the design of earth retaining structures, spread footings, and pile foundations.
Prerequisites: ECIV 330.

ECIV 531 - Design of Earth Structures (3 Credits)
Geotechnical engineering problems associated with the behavior of earth masses. Soil shear strength, lateral earth pressure, design of retaining structures, slope stability, water flow through soils.
Prerequisites: ECIV 330.

ECIV 533 - Geosynthetics and Geotechnical Design of Landfills (3 Credits)
Principles for the design, construction, and performance of waste containment systems. Characterization of barrier materials; geosynthetics; design of liner and leachate collection systems; stability and deformation analyses of landfills.
Prerequisites: ECIV 330.

ECIV 535 - Geotechnical Engineering in Transportation (3 Credits)
Remote sensing and engineering geology. Field and laboratory testing. Design and maintenance methods for flexible and rigid pavements. Topics in tunnel design and buried conduit.
Prerequisites: ECIV 330.

ECIV 539 - Experimental Methods in Geotechnical Engineering (3 Credits)
Overview of transducers, signal conditioning and data acquisition; test control methods, data analysis and measurement errors; testing systems to measure soil strength, stiffness, and hydraulic conductivity; laboratory projects and examinations.
Prerequisites: ECIV 330, ECIV 330L.

ECIV 540 - Transportation Systems Planning (3 Credits)
Fundamental interactions between supply and demand in transportation systems. Modeling transportation demand and trip-making behavior. Evaluation of alternatives for decision making.
Prerequisites: ECIV 340.

ECIV 541 - Highway Design (3 Credits)
Design of transportation facilities using relevant tools and guidelines with emphasis on physical and operational aspects of arterials, freeways, intersections, and interchanges, including geometry, capacity, control, and safety.
Prerequisites: D or better in ECIV 111 or ENCP 102 and D or better in ECIV 340.

ECIV 542 - Traffic Engineering (3 Credits)
Capacity analysis of freeways and arterials. Traffic flow characteristics and basic relationships among traffic flow parameters. Signalized and unsignalized intersection control and signal timing design.
Prerequisites: ECIV 340.

ECIV 543 - Traffic Safety Analysis (3 Credits)
Research concepts and methodologies to enable students to identify the underlying reasons and factors that contribute to traffic crashes and determine appropriate countermeasures.
Prerequisites: D or better in ECIV 340.

ECIV 551 - Elements of Water and Wastewater Treatment (3 Credits)
Unit operations and processes employed in the physical, chemical, and biological treatment of water and wastewater. Design of water and wastewater treatment systems.
Prerequisites: ECIV 350.

ECIV 555 - Principles of Municipal Solid Waste Engineering (3 Credits)
Fundamentals and engineering principles of solid waste generation, characterization, collection and transport, source reduction and recycling, and physical, chemical, and biological treatment strategies.
Prerequisites: ECIV 350.
ECIV 556 - Air Pollution Control Engineering (3 Credits)
Introduction to the sources of air pollution and the engineering principles used for control and prevention.
Prerequisites: ECIV 350.

ECIV 557 - Sustainable Construction for Engineers (3 Credits)
Instruction to sustainable engineering design alternatives and principles for construction and site development from preconstruction through design and the construction phase.
Prerequisites: ECIV 350 and ECIV 570.

ECIV 558 - Environmental Engineering Process Modeling (3 Credits)
Modeling fate and transport phenomena in environmental processes with applications in engineered unit operators and natural systems.
Prerequisites: ECIV 350 and ECIV 242.

ECIV 560 - Open Channel Hydraulics (3 Credits)
Steady and unsteady flows in single or multiple-channel systems.
Prerequisites: ECIV 360.

ECIV 562 - Engineering Hydrology (3 Credits)
Applications of hydrologic techniques to design problems; stormwater simulation models; urban stormwater.
Prerequisites: ECIV 360.

ECIV 563 - Subsurface Hydrology (3 Credits)
Hydrologic cycle, subsurface physical properties, equations of groundwater flow, well flow, well design, groundwater resource development, design of dewatering systems, groundwater contamination.
Prerequisites: ECIV 201, ECIV 360.

ECIV 570 - Land Development for Engineers (3 Credits)
Fundamentals of designing and permitting the conversion of land to new or altered states, including environmental issues, traffic and parking, utility resources, site engineering, ADA, safety, planning, and zoning requirements.
Prerequisites: Three from ECIV 320, ECIV 330, ECIV 340, ECIV 350, and ECIV 362.

ECIV 580 - Railway Engineering I (3 Credits)
Introduction to the analysis and design of the railway infrastructure for freight and passenger systems to include track and track support systems, grade crossings, special trackwork, construction, inspection, assessment and compliance.
Prerequisites: ECIV 303, ECIV 320, ECIV 330, ECIV 340.
Corequisite: ECIV 303.

ECIV 582 - Operation and Logistics of Railway Systems (3 Credits)
Principles of rail operations; Network management; Best practices for train planning, performance management and delivery of service; technical elements of a railway from an operations perspective (train controls, signaling, communications, yards, tractive power etc.).
Prerequisites: ECIV 340.

ECIV 588 - Design of Railway Bridges and Structures (3 Credits)
Introduction to railway infrastructure; Structural design considerations and criteria of railway structures; Bridge types and components; Planning and preliminary design of modern railway bridges; Loads and forces; Structural analysis and design of steel railway bridges and components.
Prerequisite or Corequisite: ECIV 330; ECIV 325 or ECIV 327.

Civil Engineering, B.S.E.

Learning Outcomes

- Graduates of the program will have an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- Graduates of the program will have an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- Graduates of the program will have an ability to communicate effectively with a range of audiences
- Graduates of the program will have an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- Graduates of the program will have an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- Graduates of the program will have an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- Graduates of the program will have an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Academic Standards

Entrance Requirements
See College of Engineering and Computing for progression requirements, and special academic opportunities.

Program GPA
Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Civil Engineering B.S.E. program: all Civil Engineering Lower Division courses, all Civil Engineering Major courses and all courses used to satisfy an ECIV Laboratory Elective, ECIV Distribution Elective, and ECIV Elective.

Professional Development Requirement
Communications and Ethics: This requirement is satisfied by completing one or more program-accepted Carolina Core courses for CMS and VSR.

Admissions

Entrance Requirements
Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four
semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four-semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

The last 25% of a student's degree must be completed in residence at the University, and at least half of the hours in the student's major courses and in the student's minor courses (if applicable) must be taken at the University.

Communications and Ethics
This requirement is satisfied by completing one or more program-accepted Carolina Core courses for CMS and VSR.

Degree Requirements (124-142 hours)
See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

Program of Study
<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>65-71</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>25</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)
CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
- ENGL 101 - must be passed with a grade of C or higher
- ENGL 102
ARP – Analytical Reasoning and Problem Solving (8 hours)
must be passed with a grade of C or higher
- MATH 141
- MATH 142
SCI – Scientific Literacy (8 hours)
must be passed with a grade of C or higher
- CHEM 111 & CHEM 111L
- PHYS 211 & PHYS 211L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
Select from the following:
- PHIL 325 (CMS/VSR overlay)
- SPCH 140
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
Select from the following:
- PHIL 325 (CMS/VSR overlay)
- PHIL 322
- any overlay or stand-alone CC-VSR course (p. 743)

Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 34 hours.

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (65-71 hours)
Supporting Courses (65-71 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 511</td>
<td>Probability</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:
MATH 241  Vector Calculus
MATH 300  Transition to Advanced Mathematics
MATH 344  Applied Linear Algebra

Foundational Math/Science Elective  3-4
Select one of the following:
CHEM 112 & 112L  General Chemistry II
PHYS 212 & 212L  Essentials of Physics II
MATH 241  Vector Calculus
MATH 300  Transition to Advanced Mathematics
MATH 344  Applied Linear Algebra

Lower Division Engineering
ECIV 101  Introduction to Civil Engineering  3
or ENCP 101  Introduction to Engineering I
ECIV 111  Introduction to Engineering Graphics and Visualization  3
or ENCP 102  Introduction to Engineering II
ECIV 200  Statics  3
or ENCP 200  Statics
ECIV 201  Computational Methods for Civil Engineering  3
or ENCP 201  Introduction to Applied Numerical Methods
ECIV 220  Mechanics of Solids  3
or ENCP 260  Introduction to the Mechanics of Solids
ECIV 360  Fluid Mechanics  3
or ENCP 360  Fluid Mechanics

ECIV Laboratory Courses
Select two of the following:  2
ECIV 303L  Civil Engineering Materials Laboratory
ECIV 330L  Geotechnical Laboratory
ECIV 340L  Transportation Engineering Laboratory
ECIV 350L  Introduction to Environmental Engineering Laboratory
ECIV 362L  Introduction to Water Resources Engineering Laboratory

ECIV Distribution Courses
Select one course from four of the following five areas:  12

Environmental Engineering
ECIV 551  Elements of Water and Wastewater Treatment
ECIV 555  Principles of Municipal Solid Waste Engineering
ECIV 556  Air Pollution Control Engineering
ECIV 557  Sustainable Construction for Engineers
ECIV 558  Environmental Engineering Process Modeling

Structural Engineering
ECIV 325  Structural Steel Design
ECIV 327  Reinforced Concrete Design

Transportation Engineering
ECIV 540  Transportation Systems Planning
ECIV 541  Highway Design
ECIV 542  Traffic Engineering
ECIV 580  Railway Engineering I

Geotechnical Engineering
ECIV 530  Foundation Analysis and Design

ECIV 531  Design of Earth Structures
ECIV 560  Open Channel Hydraulics
ECIV 562  Engineering Hydrology
ECIV 563  Subsurface Hydrology

Basic Science Elective
Select one of the following:  3-4
Biol 110  General Biology
Biol 270  Introduction to Environmental Biology
Envr 101  Introduction to the Environment
Envr 321  Environmental Pollution and Health
Geol 101  Introduction to the Earth
Geol 103  Environment of the Earth
Msci 210  Oceans and Society
Msci 215  Coastal Environments of the Southeastern US

Engineering, Science, or Mathematics (ESM) Electives
Select four of the following:  12-14
Biol 101  Biological Principles I
Biol 102  Biological Principles II
Biol 110  General Biology
Biol 250  Microbiology
Biol 211 and above
Bmeng 211 and above
Chem 112 or above
CSE 145  Algorithmic Design I
or CSE 146  Algorithmic Design II
or CSE 201  Introduction to Computer Security
or CSE 206  Scientific Applications Programming
or CSE 211  Digital Logic Design
Eche 310  Introductory Chemical Engineering Thermodynamics (or above)

Additional ECIV courses 300-level and above
ELCT 221  Circuits (or above)
EMCH 290  Thermodynamics (or above)
ENCP 290  Thermodynamic Fundamentals (or above)
ENVR 501  Special Topics in the Environment
GEOG 563  Advanced Geographic Information Systems
Geol 302  Rocks and Minerals (or above)
Itec 233  Introduction to Computer Hardware and Software (or above)
MATH 241  Vector Calculus
MATH 300  Transition to Advanced Mathematics
MATH 344  Applied Linear Algebra
MATH 520  Ordinary Differential Equations
MATH 521  Boundary Value Problems and Partial Differential Equations
MATH 544  Linear Algebra
MATH 550  Vector Analysis
MSCI 305  Ocean Data Analysis (and above)
Navy 201  Naval Ships Systems I
Navy 202  Naval Ships Systems II
Navy 301  Navigation/Naval Operations I
Phys 212  Essentials of Physics II (or above)
students with the knowledge and skills to work as practitioners in all aspects of the computing and information processing industries. The major in computer science allows students to focus primarily on the software aspects of computing and applications in the humanities and sciences; the major in computer engineering includes courses in electronics and computer hardware as well as software; the major in computer information systems is designed for persons who are primarily interested in business and data processing applications. Students expecting to pursue graduate study in either computer science or engineering are advised to follow the computer science or computer engineering programs. The department also serves many disciplines within the University through course offerings that provide basic computing skills necessary for the pursuit of studies in other fields. A minor in computer science is available.

Bachelor’s/Master’s Accelerated Programs

A combined B.S./M.S. or B.S./M.E. degree program is available to undergraduate students in computer science and engineering with 90 or more hours earned toward their baccalaureate degrees. Students accepted into this program must have a minimum overall GPA of 3.40 and at least 3.40 in the course work taken in computer science and engineering. Up to nine credit hours at the 500 level or above may be applied toward both the B.S. and M.S. or M.E. degree requirements. The approval of the student’s advisor and the graduate director is required. Questions about this program should be directed to the graduate director.

A combined B.S./I.M.B.A. degree program is available to undergraduate students in computer science and engineering with 90 or more hours earned toward their baccalaureate degrees. Students must be approved by the Department of Computer Science and Engineering and accepted by the Moore School of Business for the I.M.B.A. program. Students must have a minimum overall GPA of 3.40, one year or equivalent of appropriate professional work experience, and satisfactory scores on the GMAT examination. Up to 9 credit hours of graduate courses may be used for dual credit in both programs with the approval of both program directors. Questions about this program should be directed to the undergraduate director.

4. Major Requirements (25 hours)

Major Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECIV 303</td>
<td>Civil Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 307</td>
<td>Professional Development for Civil Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 320</td>
<td>Structural Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 330</td>
<td>Introduction to Geotechnical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 340</td>
<td>Introduction to Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 350</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 362</td>
<td>Introduction to Water Resources Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 470</td>
<td>Civil Engineering Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credit Hours 25

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Civil Engineering, B.S.E.

Computer Science and Engineering

Department Website (https://sc.edu/study/colleges_schools/engineering_and_computing/study/computer_science_and_engineering/)

Matt E. Thatcher, Chair

The Department of Computer Science and Engineering offers baccalaureate degrees with majors in computer engineering, computer information systems, and computer science. All three programs provide
CSCE 145 - Algorithmic Design I (4 Credits)
Problem-solving, algorithmic design, and programming. Three lectures and two laboratory hours per week.
Prerequisite or Corequisite: MATH 111 or MATH 115.

Carolina Core: ARP

CSCE 146 - Algorithmic Design II (4 Credits)
Continuation of CSCE 145. Rigorous development of algorithms and computer programs; elementary data structures. Three lecture hours and two laboratory hours per week.
Prerequisites: C or better in CSCE 145.

Prerequisite or Corequisite: MATH 122 or MATH 141.

CSCE 190 - Computing in the Modern World (1 Credit)
An introduction to the field of computing: trends in computing technology, the profession, and careers; subdisciplines in computing; the nature of research and development.
Corequisite: CSCE 145, CSCE 204, CSCE 205, CSCE 206 or equivalent.

CSCE 201 - Introduction to Computer Security (3 Credits)
Introduction to the theory and practice of computer security, including security policies, authentication, digital certificates, firewalls, malicious code, legal and ethical issues, and incident handling.
Prerequisite or Corequisite: CSCE 101 or CSCE 102 or CSCE 145.

CSCE 204 - Program Design and Development (3 Credits)
Fundamental algorithms and processes used in business information systems. Development and representation of programming logic. Introduction to implementation using a high-level programming language.
Prerequisites: CSCE 101 or MGSC 290 or ITEC 264.

Cross-listed course: ITEC 204, MGSC 298

CSCE 205 - Business Applications Programming (3 Credits)
Introduction to computer applications in business. Programming exercises in COBOL.
Prerequisites: MGSC 290 or CSCE 101 or above.

CSCE 206 - Scientific Applications Programming (3 Credits)
Introduction to computer applications in science and engineering. Programming exercises in a high-level language.
Prerequisites: MATH 122 or MATH 141.

CSCE 207 - UNIX System Administration (3 Credits)
The Unix programming environment: I/O programming, Unix processes, fork, exec, pipes and signals, and tools.
Prerequisites: CSCE 145 or CSCE 206.

CSCE 209 - Special Topics in Computer Programming (1-4 Credits)
Programming and application development using selected programming languages. Course content varies and will be announced in the schedule of classes by title.

CSCE 210 - Computer Hardware Foundations (3 Credits)
Number representation, data formats, CPU and memory organization, assembly language, I/O and peripherals, computer networks.
Prerequisites: CSCE 145, CSCE 204, CSCE 205, CSCE 206, or CSCE 207.

CSCE 211 - Digital Logic Design (3 Credits)
Number systems, Boolean algebra, logic design, sequential machines.
Prerequisites: MATH 141.

CSCE 212 - Introduction to Computer Architecture (3 Credits)
Computer architecture, components, and organization; memory addressing; Input/Output; instruction sets; interrupts; assembly-language programming.
Prerequisites: CSCE 211 and either CSCE 145 or CSCE 206.

CSCE 215 - UNIX/Linux Fundamentals (1 Credit)
UNIX operating system, user-level system commands, and programming tools. UNIX scripting languages.
Prerequisites: CSCE 145.

CSCE 240 - Advanced Programming Techniques (3 Credits)
Pointers; memory management; advanced programming language structures; operator overloading, iterators, multiple inheritance, polymorphism, templates, virtual functions; Unix programming environment.
Prerequisites: CSCE 215, C or better in CSCE 146.

CSCE 242 - Client-Server Computing (3 Credits)
Prerequisites: C or better in CSCE 146.

CSCE 245 - Object-Oriented Programming Techniques (3 Credits)
Advanced object-oriented concepts and techniques; multiple inheritance, memory management; operator overloading; polymorphism; performance issues.
Prerequisites: C or better in CSCE 146.

CSCE 247 - Software Engineering (3 Credits)
Fundamentals of software design and development; software implementation strategies; object-oriented design techniques; functional design techniques; design patterns; design process; source control; testing.
Prerequisites: C or better in CSCE 146.

CSCE 274 - Robotic Applications and Design (3 Credits)
Design and control of robots. Interactions between robots, sensing, actuation, and computation.
Prerequisites: CSCE 146.

CSCE 304 - Applied Problem Solving and Programming (3 Credits)
Systematic problem definition, solution formulation, and computer implementation for business and related areas. Internet and database applications. Programming exercises in a high-level programming language.
Prerequisites: CSCE 204 or MGSC 298.

Cross-listed course: MGSC 398

CSCE 311 - Operating Systems (3 Credits)
Operating system structure and function; process implementation, scheduling, and synchronization; memory management; security; naming protection; resource allocation; network file systems.
Prerequisites: CSCE 240; CSCE 210 or CSCE 212.

CSCE 313 - Embedded Systems (3 Credits)
Fundamentals of embedded systems: hardware components, software components, hardware/software interface design, and hardware/software co-design.
Prerequisites: CSCE 211, CSCE 212.
CSCE 317 - Computer Systems Engineering (3 Credits)
System-level modeling and evaluation of computer systems: requirements elicitation and specification, architectural design, reliability and performance evaluation, Markov modeling, life-cycle cost analysis, project management.
Prerequisites: CSCE 212, MATH 242, STAT 509.

CSCE 330 - Programming Language Structures (3 Credits)
Formal specification of syntax and semantics; structure of algorithms; list processing and string manipulation languages; statement types, control structures, and interfacing procedures.
Prerequisites: CSCE 240; MATH 174 or MATH 374 or MATH 574.

CSCE 350 - Data Structures and Algorithms (3 Credits)
Techniques for representing and processing information, including the use of lists, trees, and graphs; analysis of algorithms; sorting, searching, and hashing techniques.
Prerequisites: CSCE 240; MATH 174 or MATH 374 or MATH 574.

CSCE 390 - Professional Issues in Computer Science and Engineering (1 Credit)
Professional issues in the information technology professions; history and social context of computing; professional responsibilities; privacy; intellectual property; risks and liabilities of computer-based systems.
Carolina Core: VSR

CSCE 415 - Mainframe Systems (3 Credits)
Introduction to the large scale computer systems used by businesses to support thousands of simultaneous users and process millions of transactions.
Prerequisites: ITEC 352 or CSCE 240.

Cross-listed course: ITEC 475

CSCE 416 - Introduction to Computer Networks (3 Credits)
Concepts and components of computer networks and the Internet; network applications; network protocol stack.
Prerequisites: CSCE 146.

CSCE 490 - Capstone Computing Project I (3 Credits)
Major team-based software design project to be undertaken in a student's final year of study; project planning, software requirements analysis, design, and specification. Written reports and oral presentations in a technical setting.
Prerequisites: CSCE 240, either ENGL 462 or ENGL 463.
Prerequisite or Corequisite: CSCE 350.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

CSCE 491 - Capstone Computer Engineering Project (3 Credits)
Advanced computer systems engineering. Team projects. Written reports and oral presentations in a technical setting.
Prerequisites: D or better in CSCE 240, CSCE 313, CSCE 611.
Graduation with Leadership Distinction: GLD: Research

CSCE 492 - Capstone Computing Project II (3 Credits)
Continuation of CSCE 490. Computer system implementation, testing, verification and validation of results. Written reports and oral presentations in a technical setting.
Prerequisites: CSCE 490.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

CSCE 498 - Independent Study (1-3 Credits)
Individual investigation or study of special topics. At most three credits may be applied toward a degree. Approval of project proposal by instructor and department advisor.

Graduation with Leadership Distinction: GLD: Research

CSCE 500 - Computer Programming and Applications (3 Credits)
Concepts and properties of algorithms; programming exercises with emphasis on good programming habits. Credit may not be received for both CSCE 500 and CSCE 145. Open to all majors. May not be used for major credit by computer science and engineering majors.

CSCE 510 - System Programming (3 Credits)
System software such as command language interpreters, client-server applications, debuggers; mail systems, browsers, macroprocessors, and revision control systems; file systems, processes, threads, and interprocess communication.
Prerequisites: CSCE 215, CSCE 240.

CSCE 512 - System Performance Evaluation (3 Credits)
Measuring, modeling, analyzing, and predicting performance of computer systems and networks; bottleneck analysis; Markovian queuing systems and networks; use of operational and probabilistic models.
Prerequisites: CSCE 311, STAT 509 or STAT 515.

CSCE 513 - Computer Architecture (3 Credits)
Design methodology; processor design; computer arithmetic: algorithms for addition, multiplication, floating point arithmetic; microprogrammed control; memory organization; introduction to parallel architectures.
Prerequisites: CSCE 211, CSCE 212.

CSCE 515 - Computer Network Programming (3 Credits)
Computer networks and communication protocols; socket programming; interprocess communication; development of network software; case studies.
Prerequisites: CSCE 311.

CSCE 516 - Computer Networks (3 Credits)
Structure, design, and analysis of computer networks; ISO/OSI network architecture.
Prerequisites: STAT 509 or STAT 515.

CSCE 517 - Computer Crime and Forensics (3 Credits)
Structure, design, and analysis of computer networks; ISO/OSI network architecture.
Prerequisites: CSCE 215.

CSCE 518 - Ethical Hacking (3 Credits)
Fundamental principles and techniques of ethical hacking, including penetration testing life cycle, planning and scoping, identifying targets and goals, active and passive reconnaissance, enumeration and scanning, exploitation, post-exploitation, and results reporting.
Prerequisites: CSCE 215 or previous Linux/UNIX experience.
CSCE 520 - Database System Design (3 Credits)
Database management systems; database design and implementation; security, integrity, and privacy.
Prerequisites: CSCE 240 or GEOG 563.

CSCE 522 - Information Security Principles (3 Credits)
Threats to information resources and appropriate countermeasures. Cryptography, identification and authentication, access control models and mechanisms, multilevel database security, steganography, Internet security, and intrusion detection and prevention.
Prerequisites: CSCE 146; MATH 374 or MATH 174.

CSCE 526 - Service Oriented Computing (3 Credits)
Cooperative information systems and service-oriented computing. Techniques for achieving coordinated behavior among a decentralized group of information system components. Distributed databases, multiagent systems, conceptual modeling, Web services, and applications.
Prerequisites: CSCE 311.

CSCE 531 - Compiler Construction (3 Credits)
Techniques for design and implementation of compilers, including lexical analysis, parsing, syntax-directed translation, and symbol table management.
Prerequisites: CSCE 240.

CSCE 546 - Mobile Application Development (3 Credits)
Development of mobile applications, including user interface design for mobile, local and cloud data storage techniques, and application architectures.
Prerequisites: CSCE 240 or previous programming experience with one of the following programming languages (C/C++, Java, Swift, Python, Matlab, Javascript).

CSCE 547 - Windows Programming (3 Credits)
Object-oriented methods and tools for application programming with graphically interactive operating systems.
Prerequisites: CSCE 240.

CSCE 548 - Building Secure Software (3 Credits)
Prerequisites: CSCE 240.

CSCE 551 - Theory of Computation (3 Credits)
Basic theoretical principles of computing as modeled by formal languages and automata; computability and computational complexity
Prerequisites: C or better in CSCE 350 or MATH 300.

Cross-listed course: MATH 562

CSCE 552 - Computer Game Development (3 Credits)
Design and development of computer games, with emphasis on the technologies used. Hands-on development of computer games.
Prerequisites: CSCE 240, CSCE 350.

CSCE 555 - Algorithms in Bioinformatics (3 Credits)
Concepts, algorithms and tools for important problems in Bioinformatics, including nucleotide and amino acid sequence alignment, DNA fragment assembly, phylogenetic reconstruction, and protein structure visualization and assessment.
Prerequisites: CSCE 350.

CSCE 557 - Introduction to Cryptography (3 Credits)
Design of secret codes for secure communication, including encryption and integrity verification: ciphers, cryptographic hashing, and public key cryptosystems such as RSA. Mathematical principles underlying encryption. Code-breaking techniques. Cryptographic protocols.
Prerequisites: C or better in CSCE 145 or MATH 241, and at least one of CSCE 355, MATH 300 or MATH 374.

Cross-listed course: MATH 587

CSCE 561 - Numerical Analysis (3 Credits)
Interpolation and approximation of functions; solution of algebraic equations; numerical differentiation and integration; numerical solutions of ordinary differential equations and boundary value problems; computer implementation of algorithms.
Prerequisites: C or better MATH 520 or in both MATH 242 and MATH 344.

Cross-listed course: MATH 527

CSCE 563 - Systems Simulation (3 Credits)
Computer simulation of real systems; principles of system organization; random number generation; programming exercises in a simulation language.
Prerequisites: CSCE 240, STAT 509 or STAT 515.

CSCE 564 - Computational Science (3 Credits)
Parallel algorithms; scientific visualization; techniques for solving scientific problems.
Prerequisites: MATH 526, CSCE 146 or CSCE 207 or CSCE 500.

CSCE 565 - Introduction to Computer Graphics (3 Credits)
Graphics hardware; graphics primitives; two-dimensional and three-dimensional viewing; basic modeling.
Prerequisites: CSCE 240, MATH 526 or MATH 544.

CSCE 566 - Visualization Tools (3 Credits)
Scientific visualization tools as applied to sampled and generated data; methods for data manipulation and representation; investigation of visualization techniques.
Prerequisites: CSCE 145 or CSCE 206 or CSCE 207.

CSCE 569 - Parallel Computing (3 Credits)
Architecture and interconnection of parallel computers; parallel programming models and applications; issues in high-performance computing; programming of parallel computers.
Prerequisites: knowledge of programming in a high-level language; MATH 526 or MATH 544.

CSCE 571 - Critical Interactives (3 Credits)
Foundational techniques in multidisciplinary software development, specifically of applications designed to present sensitive, sometimes controversial, materials in ways to engender empathic awareness of the interactor.
Cross-listed course: FAMS 581

CSCE 572 - Human-Computer Interaction (3 Credits)
Interdisciplinary approach to interaction design, user-centered design, human abilities, survey development, experimental study methodology, heuristic evaluations, usability testing, universal design, and accessibility.
Prerequisites: Undergraduate or graduate standing in CSE or permission of the instructor.
CSCE 574 - Robotics (3 Credits)
Design and application of robotic systems; emphasis on mobile robots and intelligent machines.
Prerequisites: CSCE 211, CSCE 212, CSCE 240.

CSCE 578 - Text Processing (3 Credits)
Text and natural language processing; formal models and data structures appropriate for text processing; selected topics in computational linguistics, stylistics, and content analysis.
Prerequisites: CSCE 330, CSCE 355.

CSCE 580 - Artificial Intelligence (3 Credits)
Heuristic problem solving, theorem proving, and knowledge representation, including the use of appropriate programming languages and tools.
Prerequisites: CSCE 350.

CSCE 582 - Bayesian Networks and Decision Graphs (3 Credits)
Normative approaches to uncertainty in artificial intelligence. Probabilistic and causal modeling with Bayesian networks and influence diagrams. Applications in decision analysis and support. Algorithms for probability update in graphical models.
Prerequisites: CSCE 350; STAT 509 or STAT 515.

Cross-listed course: STAT 582

CSCE 585 - Machine Learning Systems (3 Credits)
Design and implementation of machine learning systems, Deep learning systems stack, machine learning platforms, scalable and distributed machine learning.
Prerequisites: C or better in CSCE 240 or CSCE 206.

CSCE 587 - Big Data Analytics (3 Credits)
Foundational techniques and tools required for data science and big data analytics. Concepts, principles, and techniques applicable to any technology and industry for establishing a baseline that can be enhanced by future study.
Prerequisites: STAT 509, STAT 513, or STAT 515.

Cross-listed course: STAT 587

CSCE 590 - Topics in Information Technology (3 Credits)
Reading and research on selected topics in information technology. Course content varies and will be announced in the schedule of courses by title. May be repeated for credit as topics vary.

CSCE 594 - Strategic Management of Information Systems (3 Credits)
Strategic management and use of information systems in organizations.
Cross-listed course: MGSC 594

CSCE 611 - Advanced Digital Design (3 Credits)
Design techniques for logic systems; emphasis on higher-level CAD tools such as hardware description languages and functional modeling.
Prerequisites: CSCE 212.

CSCE 612 - VLSI System Design (3 Credits)
VLSI design process models, introduction to EDA tools, HDL modeling and simulation, logic synthesis and simulation, benchmark design projects.
Prerequisites: CSCE 211.

CSCE 613 - Fundamentals of VLSI Chip Design (3 Credits)
Design of VLSI circuits, including standard processes, circuit design, layout, and CAD tools. Lecture and guided design projects.
Prerequisites: ELEC 371.

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**Applied Computing Minor**

All disciplines can benefit from computing technology. This multidisciplinary minor is designed to provide the knowledge of modern computing technology you need to be more effective in your major area of interest.

**Foundation Courses (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 101</td>
<td>Thriving in the Tech Age</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 105</td>
<td>The Digital Earth</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Note: If either or both CSCE 101 and CSCE 102 are used to satisfy the Analytical Reasoning and Problem Solving requirement of the Carolina Core then either GEOG 105, ITEC 101, and/or any Intermediate or Advanced course may be substituted in the minor.

**Intermediate Courses (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 201</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 204</td>
<td>Program Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 341</td>
<td>Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 363</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 233</td>
<td>Introduction to Computer Hardware and Software</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 245</td>
<td>Introduction to Networking</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 264</td>
<td>Computer Applications in Business I</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 265</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>MART 210</td>
<td>Digital Media Arts Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 201</td>
<td>Introduction to Information Science</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 202</td>
<td>Introduction to Information Literacy and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Note: No course used to satisfy a Carolina Core, Major, or other Minor requirement may be used to satisfy the Applied Computing Minor requirements. In the event of conflict for an Intermediate Course, any Intermediate or Advanced course may be substituted to satisfy the minor.

**Advanced Courses (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 551</td>
<td>Principles of Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 554</td>
<td>Spatial Programming</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 563</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>GIS-Based Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 565</td>
<td>Geographic Information System (GIS) Databases and Their Use</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 362</td>
<td>Introduction to Web Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 370</td>
<td>Database Systems in Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 445</td>
<td>Advanced Networking</td>
<td>3</td>
</tr>
</tbody>
</table>
## Applied Computing Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEC 447</td>
<td>Management of Information Technology</td>
<td></td>
</tr>
<tr>
<td>ITEC 493</td>
<td>Information Technology Security for Managers</td>
<td></td>
</tr>
<tr>
<td>ITEC 545</td>
<td>Telecommunications</td>
<td></td>
</tr>
<tr>
<td>ITEC 560</td>
<td>Project Management Methods</td>
<td></td>
</tr>
<tr>
<td>ITEC 562</td>
<td>Advanced Web Support Systems</td>
<td></td>
</tr>
<tr>
<td>ITEC 564</td>
<td>Capstone Project for Information Technology</td>
<td></td>
</tr>
<tr>
<td>ITEC 570</td>
<td>Database Management and Administration</td>
<td></td>
</tr>
<tr>
<td>MART 371</td>
<td>The Moving Image</td>
<td></td>
</tr>
<tr>
<td>MART 380</td>
<td>New Media Art</td>
<td></td>
</tr>
<tr>
<td>MART 571C</td>
<td>Moving Image Advanced: Animation</td>
<td></td>
</tr>
<tr>
<td>MART 581D</td>
<td>New Media Advanced: Video Game Design</td>
<td></td>
</tr>
<tr>
<td>SLIS 301</td>
<td>Information Storage and Retrieval</td>
<td></td>
</tr>
<tr>
<td>SLIS 402</td>
<td>Introduction to Management Within Information Environments</td>
<td></td>
</tr>
<tr>
<td>SLIS 420</td>
<td>Communication and Information Transfer</td>
<td></td>
</tr>
<tr>
<td>SLIS 430</td>
<td>User-Centered Information Architecture</td>
<td></td>
</tr>
<tr>
<td>SLIS 435</td>
<td>Digital Information Infrastructure</td>
<td></td>
</tr>
</tbody>
</table>

### Total Credit Hours
6

Note: No course used to satisfy a Carolina Core, Major, or other Minor requirement may be used to satisfy the Applied Computing Minor requirements. In the event of conflict for an Advanced Course, any other Advanced course may be substituted to satisfy the minor.

### Advisement Tracks

The following tracks are recommended (but not required) for students interested in particular areas within computing. Suggested courses for such tracks are listed below.

#### Animation

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 201</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>MART 210</td>
<td>Digital Media Arts Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MART 371</td>
<td>The Moving Image</td>
<td>3</td>
</tr>
<tr>
<td>MART 571C</td>
<td>Moving Image Advanced: Animation</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credit Hours
18

#### Databases

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 264</td>
<td>Computer Applications in Business I</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 265</td>
<td>Introduction to Databases</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 370</td>
<td>Database Systems in Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 570</td>
<td>Database Management and Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credit Hours
18

#### Game Design

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
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<td>General Applications Programming</td>
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<td>New Media Art</td>
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</tr>
<tr>
<td>MART 581D</td>
<td>New Media Advanced: Video Game Design</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credit Hours
18

#### Geographic Information Systems

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 105</td>
<td>The Digital Earth</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 204</td>
<td>Program Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 363</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 554</td>
<td>Spatial Programming</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 563</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credit Hours
18

#### Geographic Data: Visualization and Application

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
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<td>The Digital Earth</td>
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<tr>
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<td>Cartography</td>
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<td>GEOG 564</td>
<td>GIS-Based Modeling</td>
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</tbody>
</table>

### Total Credit Hours
18

#### Information Infrastructure

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>SLIS 202</td>
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</tr>
<tr>
<td>SLIS 402</td>
<td>Introduction to Management Within Information Environments</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 435</td>
<td>Digital Information Infrastructure</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credit Hours
18

#### Information Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 204</td>
<td>Program Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 201</td>
<td>Introduction to Information Science</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 301</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 420</td>
<td>Communication and Information Transfer</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credit Hours
18

#### Networking

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 101</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 102</td>
<td>General Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 233</td>
<td>Introduction to Computer Hardware and Software</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 245</td>
<td>Introduction to Networking</td>
<td>3</td>
</tr>
</tbody>
</table>
The University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

The last 25% of a student's degree must be completed in residence at the University, and at least half of the hours in the student's major courses and in the student's minor courses (if applicable) must be taken at the University.

Other Course Substitutions
The university may develop new courses that are appropriate for this minor as a result of rapid advances in computing. A student may substitute such a course for one of the requirements only with the approval of the advisor of the student and the director of the minor.

Computer Engineering, B.S.E.

Accreditation

Learning Outcomes
• Students will demonstrate an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
• Students will demonstrate an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
• Students will demonstrate an ability to communicate effectively with a range of audiences.
• Students will demonstrate an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
• Students will demonstrate an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
• Students will demonstrate an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
• Students will demonstrate an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Academic Standards

Program GPA
Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Computer Engineering B.S.E. program: all Lower Division Computing courses, Computer Engineering Major, Computer Engineering Electives, Electrical Engineering courses, and CSCE 390.

Exclusions
No Computer Engineering course may be counted toward a minor. All other required courses and electives may be used for a minor as appropriate. CSCE 101 and CSCE 102 are not major courses and may not be used for degree credit.

Minimum Course Grades
The Computer Engineering B.S.E. program requires that a grade of “C” or better be earned in each of the following courses: ENGL 101, ENGL 102, MATH 141, MATH 142, MATH 374, PHYS 211, PHYS 211L, and all CSCE courses applied to the degree.

Admissions

Entrance Requirements
Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

ITEC 445 Advanced Networking 3
ITEC 545 Telecommunications 3
Total Credit Hours 18

Project Management
Course Title Credits
CSCE 101 Introduction to Computer Concepts 3
CSCE 102 General Applications Programming 3
ITEC 265 Introduction to Databases 3
ITEC 362 Introduction to Web Systems 3
ITEC 560 Project Management Methods 3
ITEC 564 Capstone Project for Information Technology 3
Total Credit Hours 18

Web Development
Course Title Credits
CSCE 101 Introduction to Computer Concepts 3
CSCE 102 General Applications Programming 3
CSCE 204 Program Design and Development 3
MART 210 Digital Media Arts Fundamentals 3
ITEC 362 Introduction to Web Systems 3
ITEC 562 Advanced Web Support Systems 3
Total Credit Hours 18

Other Course Substitutions
• Students will demonstrate an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
• Students will demonstrate an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.
Degree Requirements (125-134 hours)

See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>35-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>57</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>33</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (35-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
Must be passed with a grade of C or higher.
- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (8 hours)
Must be passed with a grade of C or higher.
- MATH 141
- MATH 142

SCI – Scientific Literacy (8 hours)
- CHEM 111 & CHEM 111L
- PHYS 211 & PHYS 211L - must be passed with a grade of C or higher

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (3 hours)
- SPCH 140 or SPCH 230

2. College Requirements (0 hours)
No college required courses for this program.

3. Program Requirements (57 hours)

Supporting Courses (57 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344</td>
<td>Applied Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344L</td>
<td>Applied Linear Algebra Lab</td>
<td>1</td>
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<tr>
<td>MATH 374</td>
<td>Discrete Structures (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212L</td>
<td>Essentials of Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 462</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 463</td>
<td>Business Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Lower Division Computing
Must be passed with a grade of C or higher:
- CSCE 145 | Algorithmic Design I | 4 |
- CSCE 146 | Algorithmic Design II | 4 |
- CSCE 190 | Computing in the Modern World | 1 |
- CSCE 211 | Digital Logic Design | 3 |
- CSCE 212 | Introduction to Computer Architecture | 3 |
- CSCE 215 | UNIX/Linux Fundamentals | 1 |
- CSCE 240 | Advanced Programming Techniques | 3 |
- CSCE 274 | Robotic Applications and Design | 3 |

Electrical Engineering

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 102</td>
<td>Electrical Science (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 201</td>
<td>Introductory Electrical Engineering Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 221</td>
<td>Circuits (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 222</td>
<td>Signals and Systems (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 57
## 4. Major Requirements (33 hours)

*Must be passed with a grade of C or higher.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Major Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCE 311</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 313</td>
<td>Embedded Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 350</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 416</td>
<td>Introduction to Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 490</td>
<td>Capstone Computing Project I</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 491</td>
<td>Capstone Computer Engineering Project</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 492</td>
<td>Capstone Computing Project II</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 611</td>
<td>Advanced Digital Design</td>
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<tr>
<td><strong>Major Electives</strong></td>
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<tr>
<td>Select 9 hours of the following:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>CSCE 330</td>
<td>Programming Language Structures</td>
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</tr>
<tr>
<td>CSCE 355</td>
<td>Foundations of Computation</td>
<td></td>
</tr>
<tr>
<td>ELCT 321</td>
<td>Digital Signal Processing</td>
<td></td>
</tr>
<tr>
<td>ELCT 331</td>
<td>Control Systems</td>
<td></td>
</tr>
<tr>
<td>Other approved CSCE courses numbered 510 and higher</td>
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<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours** 33

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

[Computer Engineering, B.S.E.](https://sc.edu/about/offices_and_divisions/advising/documents/major_maps/2020-2021/2020_computer-engr_map.pdf)

### Computer Information Systems, B.S. Accreditation


### Learning Outcomes

At the time of graduation students should satisfy the following Learning Outcomes:

- Students will demonstrate an ability to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Students will demonstrate an ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.
- Communicate effectively in a variety of professional contexts.
- Students will demonstrate an ability to recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

- Students will demonstrate an ability to function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.
- Students will demonstrate an ability to support the delivery, use, and management of information systems within an information systems environment.

### Academic Standards

#### Program GPA

Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Computer Information Systems B.S. program: all Lower Division Computing courses, Computer Information Systems Major courses, Computer Information Systems Electives, CSCE 145, CSCE 390, and MGSC 290.

#### Exclusions

No Lower Division Computing, Computer Engineering Major, or Computer Engineering Elective course may be counted toward a minor. All other required courses and electives may be used for a minor as appropriate. CSCE 101 and CSCE 102 are not major courses and may not be used for degree credit.

#### Minimum Course Grades

The Computer Information Systems B.S. program requires that a grade of “C” or better be earned in each of the following courses: ENGL 101, ENGL 102, MATH 122 or MATH 141, MATH 174 or MATH 374, and all CSCE courses applied to the degree.

### Admissions

#### Entrance Requirements

Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of “C” or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of “C” or better.

The last 25% of a student’s degree must be completed in residence at the University, and at least half of the hours in the student's major courses and in the student's minor courses (if applicable) must be taken at the University.
Degree Requirements (120-128 hours)

See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>57-59</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*Must be passed with a grade of C or higher.*

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (7-8 hours)

*Must be passed with a grade of C or higher.*

- CSCE 145
- MATH 122 or MATH 141

SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI (p. 743) laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (3 hours)

- SPCH 140 or SPCH 230

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (1 hour)

- CSCE 390 - must be passed with a grade of C or higher

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 34 hours.

2. College Requirements (0 hours)

No college-required courses for this program.

3. Program Requirements (57-59 hours)

Supporting Courses (39 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 462</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or ENGL 463</td>
<td></td>
</tr>
<tr>
<td>MATH 174</td>
<td>Discrete Mathematics for Computer Science 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or MATH 374</td>
<td></td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or STAT 515</td>
<td></td>
</tr>
<tr>
<td>STAT 516</td>
<td>Statistical Methods I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 12

1 MATH 174 and MATH 374 must be passed with a grade of C or higher

Liberal Arts Electives (9 hours)

Select from the following:

- AERO 401, AERO 402
- AFAM 201-AFAM 580
- ANTH 101-ANTH 499
- ARMY 401, ARMY 402
- ARTE 101, ARTE 260
- ARTH 105-ARTH 366
- ARTS 103 ARTS 261
- CHIN 103-CHIN 550
- CLAS 220-CLAS 598
- CPLT 150-CPLT 597
- CRJU 101-CRJU 494
- DANC 101-DANC 381
- ECON 123-ECON 499
- ENGL 270-ENGL 499
- FAMS 180-FAMS 597
- FREN 109-FREN 615
- GEOG 103-GEOG 595
- GERM 109-GERM 615
- HIST 101-HIST 692
- ITAL 101-ITAL 615
- JAPA 121-JAPA 500
- LASP 201-LASP 451
- LATN 109-LATN 615
- LING 300-LING 600
- MART 110-MART 341
- MUSC 110-MUSC 140
- NAVY 401, NAVY 402
- PHIL 101-PHIL 109, PHIL 112-PHIL 598
- POLI 101-POLI 499
- PORT 121-PORT 615
- PSYC 101-PSYC 499
- RELG 101-RELG 552
- RUSS 121-RUSS 616
- SOCY 101-SOCY 565
- THEA 170-THEA 565
- WGST 112-WGST 555

**Lower Division Computing (18 hours)**
*Must be passed with a grade of C or higher.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 146</td>
<td>Algorithmic Design II</td>
<td>4</td>
</tr>
<tr>
<td>CSCE 190</td>
<td>Computing in the Modern World</td>
<td>1</td>
</tr>
<tr>
<td>CSCE 201</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 210</td>
<td>Computer Hardware Foundations</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 215</td>
<td>UNIX/Linux Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 247</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 18

**Minor in Business Information Management (18 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 222</td>
<td>Survey of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGSC 290</td>
<td>Computer Information Systems in Business</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**
Select two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 324</td>
<td>Survey of Commercial Law</td>
<td></td>
</tr>
<tr>
<td>ECON 311</td>
<td>Issues in Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 379</td>
<td>Government Policy Toward Business</td>
<td></td>
</tr>
<tr>
<td>FINA 333</td>
<td>Finance and Markets</td>
<td></td>
</tr>
<tr>
<td>IBUS 301</td>
<td>Introduction to International Business</td>
<td></td>
</tr>
<tr>
<td>MGMT 472</td>
<td>Entrepreneurship and Small Business</td>
<td></td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 351</td>
<td>Consumer Behavior</td>
<td></td>
</tr>
<tr>
<td>MGSC 395</td>
<td>Operations Management</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours** 18

**Elective (0-2 hours)**

The CIS curriculum includes 0-2 hours of electives depending on how students fulfill the Carolina Core requirements. Any course in the university can be used to satisfy the elective requirement (including additional electives in the major).

---

### 4. Major Requirements (27 hours)

*Must be passed with a grade of C or higher.*

#### Major Courses (24 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 205</td>
<td>Business Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 350</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 416</td>
<td>Introduction to Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 490</td>
<td>Capstone Computing Project I</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 492</td>
<td>Capstone Computing Project II</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 520</td>
<td>Database System Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 522</td>
<td>Information Security Principles</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 594</td>
<td>Strategic Management of Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 24

#### Major Elective (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ITEC 447</td>
<td>Management of Information Technology</td>
<td></td>
</tr>
<tr>
<td>ITEC 560</td>
<td>Project Management Methods</td>
<td></td>
</tr>
</tbody>
</table>

Select an approved CSCE course, 510 and higher - a list of acceptable courses is also maintained in the department office and on its website

**Total Credit Hours** 3

#### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

### Computer Information Systems, B.S.

#### Computer Science Minor

#### Minor Requirements (20 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Foundation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCE 145</td>
<td>Algorithmic Design I</td>
<td>4</td>
</tr>
<tr>
<td>CSCE 146</td>
<td>Algorithmic Design II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Intermediate Level Courses**
Select two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 201</td>
<td>Introduction to Computer Security</td>
<td></td>
</tr>
<tr>
<td>CSCE 210</td>
<td>Computer Hardware Foundations</td>
<td></td>
</tr>
<tr>
<td>CSCE 211</td>
<td>Digital Logic Design</td>
<td></td>
</tr>
<tr>
<td>CSCE 212</td>
<td>Introduction to Computer Architecture</td>
<td></td>
</tr>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td></td>
</tr>
<tr>
<td>CSCE 242</td>
<td>Client-Server Computing</td>
<td></td>
</tr>
</tbody>
</table>

**Advanced Courses**
Select two CSCE courses at the 300 level or above\(^2\) 6

**Total Credit Hours** 20

1. CSCE 211 is a prerequisite for CSCE 212 and that CSCE 210 is a less intensive introduction to computer hardware than the CSCE 211/CSCE 212 sequence.

2. CSCE 500 is intended primarily for graduate students and may not be used for the minor.

Note that the advanced CSCE courses have different CSCE prerequisites and that some have MATH or STAT prerequisites as well. MATH 374 is a prerequisite for many upper CSCE courses and is highly recommended. STAT 509 is a prerequisite for the Decision Support System sequence.

**Sequences**

The following sequences are offered as suggestions for students interested in particular areas within computing. The recommended intermediate level courses are given for each. Courses which are cross-listed with other departments may not be counted as minor courses if they are used as major courses.

**Artificial Intelligence**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 350</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 580</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Intermediate Level Course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

**Computer Games**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 350</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 552</td>
<td>Computer Game Development</td>
<td>3</td>
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</tbody>
</table>

Recommended Intermediate Level Course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

**Databases**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSCE 520</td>
<td>Database System Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 522</td>
<td>Information Security Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Intermediate Level Course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
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</tbody>
</table>

**Decision Support Systems**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 350</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 582</td>
<td>Bayesian Networks and Decision Graphs</td>
<td>3</td>
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Recommended Intermediate Level Course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
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</table>

**Hardware**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CSCE 313</td>
<td>Embedded Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 513</td>
<td>Computer Architecture</td>
<td>3</td>
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</table>

Recommended Intermediate Level Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 211</td>
<td>Digital Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 212</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
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</table>

**Networks**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 311</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 416</td>
<td>Introduction to Computer Networks</td>
<td>3</td>
</tr>
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</table>

Recommended Intermediate Level Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 210</td>
<td>Computer Hardware Foundations</td>
<td>3</td>
</tr>
<tr>
<td>or CSCE 212</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Programming Languages**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 330</td>
<td>Programming Language Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 531</td>
<td>Compiler Construction</td>
<td>3</td>
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</tbody>
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Recommended Intermediate Level Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 212</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

**Security**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 311</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 522</td>
<td>Information Security Principles</td>
<td>3</td>
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Recommended Intermediate Level Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 201</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 210</td>
<td>Computer Hardware Foundations</td>
<td>3</td>
</tr>
<tr>
<td>or CSCE 212</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Service Oriented Computing**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 311</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 526</td>
<td>Service Oriented Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Intermediate Level Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 210</td>
<td>Computer Hardware Foundations</td>
<td>3</td>
</tr>
<tr>
<td>or CSCE 212</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Scientific Computing**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 564</td>
<td>Computational Science</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 567</td>
<td>Visualization Tools</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Intermediate Level Course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 146</td>
<td>Algorithmic Design II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Systems Programming**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 311</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 510</td>
<td>System Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Intermediate Level Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 240</td>
<td>Advanced Programming Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>
Minimum Course Grades
The Computer Science B.S.C.S. program requires that a grade of "C" or better be earned in each of the following courses: ENGL 101, ENGL 102, MATH 141, MATH 142, MATH 374, CHEM 111 or PHYS 211, and all CSCE courses applied to the degree.

Admissions
Entrance Requirements
Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

The last 25% of a student’s degree must be completed in residence at the University, and at least half of the hours in the student’s major courses and in the student’s minor courses (if applicable) must be taken at the University.

Degree Requirements (125 hours)
See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>35-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>60</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>30</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (35-44 hours)
CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
Must be passed with a grade of C or higher.

- ENGL 101
- ENGL 102
ARP – Analytical Reasoning and Problem Solving (8 hours)
Must be passed with a grade of C or higher.

- MATH 141
- MATH 142

SCI – Scientific Literacy (8 hours)
Select all of one of the following:

Either
- CHEM 111 & CHEM 111L - both must be passed with a grade of C or higher
- CHEM 112 & CHEM 112L (both not approved for CC-SCI)

or
- PHYS 211 & PHYS 211L - both must be passed with a grade of C or higher
- PHYS 212 & PHYS 212L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERMAN, LATIN or SPAN; or complete the 121 course in another foreign language.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component¹ (3 hours)
- SPCH 140 or SPCH 230

INF – Information Literacy¹ (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility¹ (1 hour)
- CSCE 390 - must be passed with a grade of C or higher

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 35 hours.

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (60 hours)
Supporting Courses (60 hours)

Foundational Courses (16 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344</td>
<td>Applied Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344L</td>
<td>Applied Linear Algebra Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 374</td>
<td>Discrete Structures (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 462</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 463 Business Writing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 16

Laboratory Science Elective (4 hours)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 161</td>
<td>Human Origins: An Introduction to Biological Anthropology</td>
</tr>
<tr>
<td>ASTR 101</td>
<td>Introduction to Astronomy</td>
</tr>
<tr>
<td>BIOL 101 &amp; 101L</td>
<td>Biological Principles I and Biological Principles I Laboratory</td>
</tr>
<tr>
<td>BIOL 110</td>
<td>General Biology</td>
</tr>
<tr>
<td>CHEM 111 &amp; 111L</td>
<td>General Chemistry I and General Chemistry I Lab</td>
</tr>
<tr>
<td>CHEM 141</td>
<td>Principles of Chemistry I</td>
</tr>
<tr>
<td>ENVR 101 &amp; 101L</td>
<td>Introduction to the Environment and Introduction to the Environment Lab</td>
</tr>
<tr>
<td>ENVR 200</td>
<td>Natural History of South Carolina</td>
</tr>
<tr>
<td>GEOG 201</td>
<td>Landform Geography</td>
</tr>
<tr>
<td>GEOG 202</td>
<td>Weather and Climate</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introduction to the Earth</td>
</tr>
<tr>
<td>GEOL 103</td>
<td>Environment of the Earth</td>
</tr>
<tr>
<td>GEOL 201</td>
<td>Observing the Earth</td>
</tr>
<tr>
<td>GEOL 215 &amp; 215L</td>
<td>Coastal Environments of the Southeastern U.S. (Laboratory)</td>
</tr>
<tr>
<td>GEOL 302</td>
<td>Rocks and Minerals</td>
</tr>
<tr>
<td>MSCI 101</td>
<td>The Ocean Environment</td>
</tr>
<tr>
<td>MSCI 102</td>
<td>The Living Ocean</td>
</tr>
<tr>
<td>MSCI 210 &amp; 210L</td>
<td>Oceans and Society and Oceans and Society Laboratory</td>
</tr>
<tr>
<td>MSCI 215 &amp; 215L</td>
<td>Coastal Environments of the Southeastern U.S. (Laboratory)</td>
</tr>
<tr>
<td>PHYS 211 &amp; 211L</td>
<td>Essentials of Physics I and Essentials of Physics I Lab</td>
</tr>
</tbody>
</table>

Total Credit Hours 4

Liberal Arts Electives (9 hours)
Select 9 hours of the following:
4. Major Requirements (30 hours)

*Must be passed with a grade of C or higher.*

### Major Courses (21 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 311</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 330</td>
<td>Programming Language Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 350</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 355</td>
<td>Foundations of Computation</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 416</td>
<td>Introduction to Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 490</td>
<td>Capstone Computing Project I</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 492</td>
<td>Capstone Computing Project II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 21

### Major Electives (9 hours)

Select from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 317</td>
<td>or any CSCE course 500 or higher</td>
<td>9</td>
</tr>
</tbody>
</table>

Select any approved CSCE courses, 500 and higher — a list of acceptable courses is also maintained in the department office and on its website.

**Total Credit Hours** 9

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

## Computer Science, B.S.C.S.

### Data Science Minor

The Minor in Data Science is jointly offered by the Department of Statistics and the Department of Computer Science and Engineering. It is designed for students in any discipline that uses large data sets, including the sciences, engineering, business, mathematics, and the social sciences.

### Degree Requirements (18-19 Hours)

#### Prerequisites (8 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 122</td>
<td>Calculus for Business Administration and Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 141</td>
<td>Calculus I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 3

#### Minor Requirements (18 or 19 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 145</td>
<td>Algorithmic Design I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 4
or CSCE 206  Scientific Applications Programming

Core Computing Courses
CSCE 587  Big Data Analytics  3
CSCE 567  Visualization Tools  3

Core Statistics Courses
STAT 509  Statistics for Engineers  3
or STAT 515  Statistical Methods I
or STAT 510  Applied Multivariate Statistics and Data Mining  3

Elective Course
Select one of the following:  3
Options requiring no additional pre-requisites:
• CSCE 146  Algorithmic Design II
• STAT 516  Statistical Methods II
Options requiring additional pre-requisites:
• MATH 344  Applied Linear Algebra
• CSCE 520  Database System Design
• CSCE 564  Computational Science
• CSCE 569  Parallel Computing
• CSCE 582  Bayesian Networks and Decision Graphs
• STAT 511  Probability
• STAT 512  Mathematical Statistics
• STAT 517  Advanced Statistical Models
• STAT 535  Introduction to Bayesian Data Analysis
• STAT 530  Applied Multivariate Statistics and Data Mining

Total Credit Hours  19

Note: The Data Science Minor is designed for students in any discipline that uses large data sets, including Biology, Business, Mathematics, Psychology, etc. Choosing the correct courses is more complicated for students majoring in Computer Engineering, Computer Science, Computer Information Systems, and Statistics.

Course Substitutions
No course used to satisfy a Carolina Core, major, or other minor requirement may be used for the Data Science Minor. In the event of conflict, any elective course may be substituted for a required course in this minor.

Administration of the Minor
Curricula and other decisions of the minor will be made by a committee composed of two faculty appointed by the Chair of Statistics and two faculty appointed by the Chair of Computer Science and Engineering.

Electrical Engineering
Department Website (https://sc.edu/study/colleges_schools/engineering_and_computing/study/electrical_engineering/)

Roger Dougal, Chair

Electrical engineers create electronic devices, circuits, and systems that create, process, or distribute information and energy. Graduates of this program are prepared for a wide range of professional practice through a combination of core and career plan courses. The first two years of study establish a technical foundation in math, science, and engineering principles and a responsible social foundation in the liberal arts. The last two years of study focus each student's interest into a specialty area appropriate to their own career objectives. The department's web site describes a wide range of sample career plans, ranging from renewable energy systems to 5G communication networks. The department is well-known for its outstanding hands-on laboratory sequence and for encouraging highly talented and motivated undergraduate students to participate in its many research programs. The rapid pace of developments in electrical engineering requires that graduates make strong commitments to lifelong learning, and it ensures that graduates will be presented with many exciting and diverse opportunities throughout their professional careers.

Accelerated BSE/Graduate Program
Qualifying Electrical Engineering majors can enroll in the Accelerated bachelors/graduate degree program and then earn graduate credit for up to 12 credit hours of courses that can also be applied to their baccalaureate program. These students can typically complete a graduate degree (ME, MS, or PhD) one to two semesters faster than would otherwise be possible. Requirements for this program appear on the College of Engineering and Computing pages.

Programs
• Electrical Engineering Minor (p. 406)
• Electrical Engineering, B.S.E. (p. 407)

Courses
ELCT 101 - Electrical and Electronics Engineering (3 Credits)
Introductions to: the profession of electrical engineering; the wide range of sub-disciplines that make electrical engineering so valuable in improving the human condition; the role of electrical engineers in society; and the role of electrical engineering students in the university.

ELCT 102 - Electrical Science (3 Credits)
Fundamentals of electrical and electronic components. Basic network laws. Mathematical and computer tools for network analysis. Cannot earn credit for ELCT 102 after earning credit for either ELCT 220 or ELCT 221.

Prerequisite or Corequisite: MATH 141.

ELCT 201 - Introductory Electrical Engineering Laboratory (3 Credits)
Laboratory procedures, instrumentation and measurements, report writing, computer use in system design, testing, and troubleshooting. Integrative project-based learning environment including passive, active, electronic and electromechanical systems.

Prerequisites: C or better in ENGL 102 and C or better in CSCE 211.

Prerequisite or Corequisite: ELCT 222.

ELCT 220 - Electrical Engineering for Non-Majors (3 Credits)
Fundamentals of electrical engineering for mechanical, chemical, or other engineering disciplines, including electric circuits, measurements, data acquisition, sensors, motors, and controllers.

Prerequisites: MATH 142.

ELCT 221 - Circuits (3 Credits)
Analysis of linear ac circuits using complex variables. Nodal and mesh analysis, Thevenin and Norton transformations, linearity, superposition, use of math solvers, circuit simulators, and computer-interfaced instrumentation.

Prerequisites: C or better in MATH 142; C or better in ELCT 102; or C or better in AESP 265; or D or better in ELCT 220.
ELCT 222 - Signals and Systems (3 Credits)
Analysis of continuous-time signals and systems in time and frequency domains, Fourier series and transforms, Laplace transforms; introduction to discrete-time signals.
Prerequisites: C or better in ELCT 221 and in MATH 242.

ELCT 301 - Electronics Laboratory (3 Credits)
Design and implementation of analog and digital electronic circuits, with emphasis on developing deep individual understanding of curriculum-spanning concepts.
Prerequisites: D or better in ELCT 201.
Prerequisite or Corequisite: D or better in ELCT 371.

ELCT 302 - Real Time Systems Laboratory (3 Credits)
Real-time design and development on an unmanned ground vehicle platform.
Prerequisites: ELCT 301.
Prerequisite or Corequisite: ELCT 331.

ELCT 321 - Digital Signal Processing (3 Credits)
An introduction to analysis, design and applications of discrete time systems; z- and discrete Fourier transforms; frequency and impulse responses, FIR and IIR filters.
Prerequisites: C or better in ELCT 222.

ELCT 331 - Control Systems (3 Credits)
Prerequisites: C or better in ELCT 222.

ELCT 332 - Fundamentals of Communication Systems (3 Credits)
Introduction to communication systems, sampling theorem, modulation theory, multiplexing, phase-lock loops, and related topics.
Prerequisite or Corequisite: ELCT 321 and STAT 509.

ELCT 350 - Computer Modeling of Electrical Systems (3 Credits)
Formulation of physics-based dynamic models of electrical or electromechanical systems. Solving dynamic equations of electrical systems in discrete time. Use of object oriented programming language (e.g., C++) and computer tools (e.g, MATLAB, virtual test bed) for solving dynamic equations of electrical systems.
Prerequisites: C or better in ELCT 222, C or better in CSCE 145.

ELCT 361 - Electromagnetics (3 Credits)
Basic concepts of electric and magnetic fields, including electrostatics, magnetostatics, and quasi-statics with computer applications.
Prerequisites: PHYS 212 and MATH 241.

ELCT 363 - Introduction to Microelectronics (3 Credits)
Properties and characteristics of semiconductor materials, p-n and semiconductor-metal junctions. Basic properties, characteristics and operation of diodes and transistors.
Prerequisites: C or better in CHEM 111, C or better in PHYS 212, C or better in MATH 241.

ELCT 371 - Electronics (3 Credits)
Introduction to design and analysis of electronic circuits and systems. Applications of amplifiers, op-amps, diodes, bipolar and field-effect transistors in analog and digital circuits.
Prerequisites: C or better in ELCT 222.

ELCT 403 - Capstone Design Project I (3 Credits)
Planning, preliminary design, and prototyping. Analysis and specification of system and subsystem requirements, measures of performance, analysis of alternatives, effective team work. Project management and scheduling. Prototype implementation and characterization. This course should be taken during student's penultimate semester.
Prerequisites: D or better in ELCT 302.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ELCT 404 - Capstone Design Project II (3 Credits)
Continuation of Capstone Design Project I. Final design and implementation including design iteration, design for reliability, system integration and characterization, business case development.
Prerequisites: D or better in ELCT 403.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

Experiential Learning: Experiential Learning Opportunity

ELCT 499 - Special Problems (1-3 Credits)
Individual investigation or studies of special topics. A maximum of 3 credits total may be applied toward a degree. Advanced approval of project proposal by instructor and department advisor.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ELCT 510 - Photovoltaic Materials and Devices (3 Credits)
Fundamentals of photovoltaic solar cell technologies. Design and operation of solar cells, including efficiency analysis and cost benefit. Applications to green and sustainable energy systems.
Prerequisites: C or better in ELCT 363.

ELCT 521 - Introduction to Microwaves (3 Credits)
Introduction to plane electromagnetic wave propagation, transmission lines, transmission line equations, input impedance, waveguides and cavities, antennas and antenna arrays, microwave modeling.
Prerequisites: ELCT 361 or PHYS 504.

ELCT 530 - Industrial Controls (3 Credits)
The embedded electronics and software used in data acquisition, and process and instrument control in an industrial or manufacturing environment.
Prerequisites: ELCT 331.

ELCT 531 - Digital Control Systems (3 Credits)
Analysis and design of discrete-time control systems, implementation of control systems using digital electronic systems. Applications to electrical systems.
Prerequisites: ELCT 331.

ELCT 533 - System Health Management (3 Credits)
Sensing, data acquisition, and data processing for evaluation of performance and system health. Integration and implementation of health management systems.
Prerequisites: ELCT 321 or equivalent.
ELCT 541 - Sensors for Biomedicine (3 Credits)
Operating principles and design of bioelectric sensors and sensor systems for medical applications.
Prerequisites: C or better in ELCT 361, ELCT 363 and ELCT 371.

ELCT 551 - Power Systems Design and Analysis (3 Credits)
Transmission line design, load flow, and short circuit analysis of power systems.
Prerequisites: ELCT 331.

ELCT 553 - Electromechanical Energy Conversion (3 Credits)
Analysis and design of electromechanical energy conversion systems, including electrical machines and electronic drives.
Prerequisites: ELCT 331, ELCT 361.

ELCT 554 - Integration of Photovoltaics in Modern Power Systems (3 Credits)
Analysis and design of photovoltaic systems in presence of photovoltaic generation with focus on protection systems, control, power quality.
Prerequisites: ELCT 551.

ELCT 559 - Special Topics in Distributed Energy Resources for Electric Energy Systems (3 Credits)
Special topics in distributed energy resources for modern electrical energy systems. Course content varies and will be announced in the schedule of classes by title. May be repeated as topics vary.
Prerequisite or Corequisite: ELCT 551.

ELCT 562 - Wireless Communications (3 Credits)
Fourier techniques and stochastic processes review, multiple access & cellular techniques, signal space representations for signals and noise, baseband modulations and optimal receivers in additive white Gaussian noise, bandpass and higher-order modulations, mobile & wireless propagation channel characteristics, effects of bandlimiting & distortion mitigation, diversity techniques.
Prerequisites: ELCT 332, ELCT 361.

ELCT 563 - Semiconductor Electronic Devices (3 Credits)
Basic semiconductor material properties. Principles and characteristics of semiconductor p-n junction and Schottky diodes, field-effect transistors (JFETs, MESFETs, and MOSFETs), and bipolar junction transistors.
Prerequisites: ELCT 363 or equivalent.

ELCT 564 - RF Circuit Design for Wireless Communications (3 Credits)
RF design fundamentals, lumped elements, transmission line theory, transmission lines and waveguides, S-parameters, impedance matching, microwave resonators.
Prerequisites: ELCT 361.

ELCT 566 - Semiconductor Optoelectronics (3 Credits)
Basic semiconductor material optical properties. Principles and structures of semiconductor lasers, Light Emitting Diodes, and photodetectors.
Prerequisites: ELCT 363 or equivalent.

ELCT 572 - Power Electronics (3 Credits)
Basic analysis and design of solid-state power electronic devices and circuitry.
Prerequisites: ELCT 371, ELCT 331.

ELCT 574 - Semiconductor Materials and Device Characterization (3 Credits)
Semiconductor material and device characterization; resistivity, carrier and doping density, contact resistance, Schottky barriers, series resistance, defects, trapped charges, and carrier lifetime.
Prerequisites: ELCT 363 or equivalent.

ELCT 582 - Semiconductor Laboratory (3 Credits)
Prerequisite: ELCT 363.

### Electrical Engineering Minor

#### Prerequisite Courses (11 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 141</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>11</td>
</tr>
</tbody>
</table>

#### Minor Requirements (18 Hours)

The minor in Electrical Engineering requires the completion of at least 18 credit hours consisting of four core courses and two approved elective courses that make a coherent sequence, composed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELCT 102</td>
<td>Electrical Science</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 221</td>
<td>Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 222</td>
<td>Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 371</td>
<td>Electronics</td>
<td>3</td>
</tr>
<tr>
<td>Required Intermediate Course:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select any ELCT course at the 300-level</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Required Advanced Course:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select any 500-level ELCT course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

*Note that 500-level courses generally have a prerequisite at the 300-level, so the Intermediate and Advanced courses should be chosen consistently. Some 500-level courses may have two prerequisites at the 300-level, which could then require taking an additional three hours.*

### Recommended or Examples of Sequences

The following sequences of Intermediate and Advanced courses are suggested as examples. Many other sequences are possible. A student's particular sequence should be chosen in consultation with an EE faculty advisor.

#### For Interest in Manufacturing Industries

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 331</td>
<td>Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 530</td>
<td>Industrial Controls</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
For Interest in Biomedical Electronics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 361</td>
<td>Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 363</td>
<td>Introduction to Microelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 541</td>
<td>Sensors for Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

For Interest in Renewable Energy Industries

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 363</td>
<td>Introduction to Microelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 510</td>
<td>Photovoltaic Materials and Devices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

For Interest in Electric Power or Electric Utility Industries

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 331</td>
<td>Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 551</td>
<td>Power Systems Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

For Interest in Power Electronics, Power Conversion, Electrical Propulsion, and Actuation for Automobiles, Aircraft, Robotics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 331</td>
<td>Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 572</td>
<td>Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

For Interest in Wireless Data Communications and Microwave Electronics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 361</td>
<td>Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 564</td>
<td>RF Circuit Design for Wireless Communications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

For Interest in Semiconductor Devices or Optoelectronics Devices or Sensors

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 363</td>
<td>Introduction to Microelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 563</td>
<td>Semiconductor Electronic Devices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

Electrical Engineering, B.S.E.

Learning Outcomes

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Academic Standards

Program GPA

Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Electrical Engineering B.S.E. program: all Lower Division Engineering courses, all Electrical Engineering Major courses, and all Career Plan Elective courses.

Admissions

Entrance Requirements

Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

The last 25% of a student's degree must be completed in residence at the University, and at least half of the hours in the student's major courses and in the student's minor courses (if applicable) must be taken at the University.

Degree Requirements (126-139 hours)

See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
</tbody>
</table>
1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
Must be passed with a grade of C or higher.
- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (8 hours)
Must be passed with a grade of C or higher.
- MATH 141
- MATH 142

SCI – Scientific Literacy (8 hours)
Must be passed with a grade of C or higher.
- CHEM 111 & CHEM 111L
- PHYS 211 & PHYS 211L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
Select from the following:
- PHIL 325 (CMS/VSR overlay)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
Select from the following:
- PHIL 325 (CMS/VSR overlay)
- any overlay or stand-alone CC-VSR course (p. 743)

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (62-63 hours)

Supporting Courses (62-63 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analysis Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCE 146</td>
<td>Algorithmic Design II</td>
<td>3-4</td>
</tr>
<tr>
<td>EMCH 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td></td>
</tr>
<tr>
<td>PHYS 306</td>
<td>Principles of Physics III</td>
<td></td>
</tr>
<tr>
<td>Foundational Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 421</td>
<td>Engineering Economics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 220</td>
<td>Mechanical Engineering Fundamentals for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212L</td>
<td>Essentials of Physics II Lab (must be passed with a grade of C or higher)</td>
<td>1</td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>Lower Division Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCE 145</td>
<td>Algorithmic Design I (must be passed with a grade of C or higher)</td>
<td>4</td>
</tr>
<tr>
<td>CSCE 211</td>
<td>Digital Logic Design (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 212</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 101</td>
<td>Electrical and Electronics Engineering</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 101</td>
<td>Introduction to Engineering I</td>
<td></td>
</tr>
<tr>
<td>ELCT 102</td>
<td>Electrical Science</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 201</td>
<td>Introductory Electrical Engineering Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 221</td>
<td>Circuits (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 222</td>
<td>Signals and Systems (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Career Plan Electives
Select 15 hours of electives 1

Total Credit Hours 62-63
The student, in consultation with his or her advisor, will select 15 hours of electives that support the student’s defined career plan. Career Plan Electives include ELCT 332 and all ELCT courses numbered 499 and higher. Up to 6 hours of non-ELCT courses may be used to satisfy Career Plan Electives with department approval; all must be at or above the 300-level.

### 4. Major Requirements (30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCT 301</td>
<td>Electronics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 302</td>
<td>Real Time Systems Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 321</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 331</td>
<td>Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 350</td>
<td>Computer Modeling of Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 361</td>
<td>Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 363</td>
<td>Introduction to Microelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 371</td>
<td>Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 403</td>
<td>Capstone Design Project I</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 404</td>
<td>Capstone Design Project II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

**Electrical Engineering, B.S.E.**

### Integrated Information Technology

Department Website: [https://sc.edu/study/colleges_schools/engineering_and_computing/study/integrated_information_technology/](https://sc.edu/study/colleges_schools/engineering_and_computing/study/integrated_information_technology/)

Elizabeth A. Regan, Director

The College of Engineering and Computing offers a bachelor of science degree with a major in integrated information technology.

### Programs

- Integrated Information Technology Minor (p. 410)
- Integrated Information Technology, B.S. (p. 411)

### Courses

**ITEC 101 - Thriving in the Tech Age (3 Credits)**

Pervasive impact of computers on today’s global society; skills and strategies for using technology. How information technologies impact daily life and drive change.

**ITEC 143 - Advanced Business Document Preparation (3 Credits)**

Emphasis on production and versatility in preparing business documents. Not for TSTM majors. For business teacher certification.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

**ITEC 204 - Program Design and Development (3 Credits)**

Fundamental algorithms and processes used in business information systems. Development and representation of programming logic. Introduction to implementation using a high-level programming language.

**Prerequisites:** C or better in either CSCE 101, MGSC 290 or ITEC 264.

**Cross-listed course:** CSCE 204, MGSC 298

**ITEC 233 - Introduction to Computer Hardware and Software (3 Credits)**

Understanding of current computer hardware and software through computer building, repairing, and troubleshooting.

**ITEC 242 - Business Communications (3 Credits)**

Theory and processes in written business communications; composing effective business letters and reports.

**Prerequisites:** C or better in both ENGL 101 and ENGL 102.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

**ITEC 243 - Word Processing Concepts and Technology (3 Credits)**

Introduction to word processing concepts and applications.

**Prerequisites:** keyboarding.

**ITEC 245 - Introduction to Networking (3 Credits)**

Understanding the essential concepts of computer networks, including standards, topologies, security, media, switching, routing, and more.

**Prerequisites:** C or better in ITEC 233.

**ITEC 264 - Computer Applications in Business I (3 Credits)**

Survey of core skills and techniques for spreadsheet design and analysis of business problems.

**ITEC 265 - Introduction to Databases (3 Credits)**

Fundamentals of modern database design and applications.

**ITEC 270 - Records Control (3 Credits)**

Analysis and control of office records including creation, processing, maintenance, protection, and disposition.

**Prerequisites:** ITEC 264.

**ITEC 293 - Cybersecurity Operations (3 Credits)**

Operations in Security Operations Centers (SOC). Securing information systems by monitoring, analyzing, detecting, and responding to security events.

**Prerequisites:** C or better in ITEC 233 or CSCE 145.

**ITEC 301 - Professional Internship Seminar (3 Credits)**

Preparation for professional internship.

**Prerequisites:** C or better in both ITEC 242 and ITEC 370.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Internships

**ITEC 352 - Software Design (3 Credits)**

Survey of core software development principles, application development from pseudocode and flow charting through coding process.

**Prerequisites:** C or better in CSCE 204 or ITEC 204.

**ITEC 362 - Introduction to Web Systems (3 Credits)**

Introduction to web based systems, including HTML, CSS, and JavaScript; working with Content Management systems (Wordpress, Joomla); Accessibility, SEO, and web development best practices.

**Prerequisites:** C or better in either ITEC 101, CSCE 101, or CSCE 102.
ITEC 370 - Database Systems in Information Technology (3 Credits)
Survey of techniques for working with enterprise-level database systems.
Prerequisites: C or better in ITEC 265.

ITEC 390 - Special Topics in Information Technology (1-3 Credits)
Advanced concepts, issues, and trends in information technology. Course content varies and will be announced in the schedule of classes by title. May be taken twice for credit.

ITEC 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

ITEC 444 - Introduction to Human Computer Interaction (3 Credits)
Human computer interaction: human factors of interactive software, methods to develop and assess interfaces, interaction styles, and design considerations.
Prerequisites: C or better in either CSCE 204 or CSCE 145; and C or better in ITEC 362.
Graduation with Leadership Distinction: GLD: Research

ITEC 447 - Management of Information Technology (3 Credits)
Overview of current practices and trends in end-user technology and information system management.
Prerequisites: C or better in ITEC 101 and ITEC 245.

ITEC 472 - Directed Teaching in High School (Business Education) (12 Credits)
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ITEC 475 - Mainframe Systems (3 Credits)
Introduction to the large scale computer systems used by businesses to support thousands of simultaneous users and process millions of transactions.
Prerequisites: C or better in ITEC 352, or C or better in CSCE 146.

ITEC 476 - Job Control Language (3 Credits)
Programming in job control language used to process batch jobs on mainframe computers. Use of standard system utility programs.
Prerequisites: C or better in ITEC 352, or C or better in CSCE 146.

ITEC 493 - Information Technology Security for Managers (3 Credits)
Information technology security from a managerial perspective, including security awareness, risk assessment, and security policy development.
Prerequisites: C or better in ITEC 445.

ITEC 495 - Professional Internship (6 Credits)
Internship coordinated by a faculty member and supervised by an approved business supervisor. Contract approved by instructor, advisor, and department head is required for undergraduate students.
Prerequisites: C or better in ITEC 301.
Experiential Learning: Experiential Learning Opportunity

ITEC 544 - Training Systems (3 Credits)
Theory, design, and implementation of technology-based training systems, including hardware and software solutions.
Prerequisites: C or better in ITEC 444.

ITEC 545 - Telecommunications (3 Credits)
Telecommunications systems, applications, and equipment allowing for the global dissemination of information.
Prerequisites: C or better in ITEC 245.

ITEC 552 - Linux Programming and Administration (3 Credits)
Shell scripting and administration in the Linux operating system.
Prerequisites: C or better in ITEC 245.

ITEC 560 - Project Management Methods (3 Credits)
Project management principles and standard practices, including software applications for project management.
Prerequisites: C or better in ITEC 362; and C or better in either ITEC 264 or MGSC 290.

ITEC 562 - Advanced Web Support Systems (3 Credits)
The development of advanced, dynamic, Web-based information systems, including the integration of back-end database-records management systems.
Prerequisites: C or better in ITEC 362.

ITEC 564 - Capstone Project for Information Technology (3 Credits)
Application of project management software, technologies, and practices to the design and implementation of real-world capstone projects.
Prerequisites: C or better in both ITEC 362 and ITEC 560.

ITEC 570 - Database Management and Administration (3 Credits)
Introduction to database administration and implementation using an enterprise-level Relational Database Management System (RDBMS).
Prerequisites: C or better in ITEC 370.

ITEC 590 - Special Topics in Integrated Information Technology (3 Credits)
Advanced concepts, issues, and trends in technology support and training management. Course content varies and will be announced in the schedule of classes by title. May be repeated twice for credit.

## Integrated Information Technology Minor

### Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITEC 101</td>
<td>Thriving in the Tech Age</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 233</td>
<td>Introduction to Computer Hardware and Software</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Select 12 hours of ITEC courses, excluding ITEC 143, ITEC 242, ITEC 243, ITEC 270, and ITEC 472.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Advisement Tracks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The following tracks are recommended (but not required) for students interested in particular areas within computing. Suggested courses are listed below.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Cybersecurity Operations

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEC 101</td>
<td>Thriving in the Tech Age</td>
<td>18</td>
</tr>
<tr>
<td>ITEC 233</td>
<td>Introduction to Computer Hardware and Software</td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEC 245</td>
<td>Introduction to Networking</td>
<td></td>
</tr>
<tr>
<td>ITEC 293</td>
<td>Cybersecurity Operations</td>
<td></td>
</tr>
<tr>
<td>ITEC 445</td>
<td>Advanced Networking</td>
<td></td>
</tr>
<tr>
<td>ITEC 493</td>
<td>Information Technology Security for Managers</td>
<td></td>
</tr>
<tr>
<td>IT Business Operations</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>ITEC 101</td>
<td>Thriving in the Tech Age</td>
<td></td>
</tr>
<tr>
<td>ITEC 233</td>
<td>Introduction to Computer Hardware and Software</td>
<td></td>
</tr>
<tr>
<td>Select four of the following:</td>
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<td></td>
</tr>
<tr>
<td>ITEC 245</td>
<td>Introduction to Networking</td>
<td></td>
</tr>
<tr>
<td>ITEC 564</td>
<td>Capstone Project for Information Technology</td>
<td></td>
</tr>
<tr>
<td>ITEC 265</td>
<td>Introduction to Databases</td>
<td></td>
</tr>
<tr>
<td>ITEC 293</td>
<td>Cybersecurity Operations</td>
<td></td>
</tr>
<tr>
<td>ITEC 447</td>
<td>Management of Information Technology</td>
<td></td>
</tr>
<tr>
<td>IT Business Operations</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>ITEC 101</td>
<td>Thriving in the Tech Age</td>
<td></td>
</tr>
<tr>
<td>ITEC 233</td>
<td>Introduction to Computer Hardware and Software</td>
<td></td>
</tr>
<tr>
<td>ITEC 264</td>
<td>Computer Applications in Business I</td>
<td></td>
</tr>
<tr>
<td>ITEC 265</td>
<td>Introduction to Databases</td>
<td></td>
</tr>
<tr>
<td>ITEC 370</td>
<td>Database Systems in Information Technology</td>
<td></td>
</tr>
<tr>
<td>ITEC 570</td>
<td>Database Management and Administration</td>
<td></td>
</tr>
<tr>
<td>Databases</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITEC 293</td>
<td>Cybersecurity Operations</td>
<td></td>
</tr>
<tr>
<td>ITEC 493</td>
<td>Information Technology Security for Managers</td>
<td></td>
</tr>
<tr>
<td>ITEC 545</td>
<td>Telecommunications</td>
<td></td>
</tr>
<tr>
<td>Project Management</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>ITEC 101</td>
<td>Thriving in the Tech Age</td>
<td></td>
</tr>
<tr>
<td>ITEC 233</td>
<td>Introduction to Computer Hardware and Software</td>
<td></td>
</tr>
<tr>
<td>ITEC 264</td>
<td>Computer Applications in Business I</td>
<td></td>
</tr>
<tr>
<td>ITEC 362</td>
<td>Introduction to Web Systems</td>
<td></td>
</tr>
<tr>
<td>ITEC 560</td>
<td>Project Management Methods</td>
<td></td>
</tr>
<tr>
<td>ITEC 564</td>
<td>Capstone Project for Information Technology</td>
<td></td>
</tr>
<tr>
<td>Web Development</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITEC 245</td>
<td>Introduction to Networking</td>
<td></td>
</tr>
<tr>
<td>ITEC 264</td>
<td>Computer Applications in Business I</td>
<td></td>
</tr>
<tr>
<td>ITEC 265</td>
<td>Introduction to Databases</td>
<td></td>
</tr>
<tr>
<td>Select one ITEC elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Some may require pre-requisite courses.

Note: No course used to satisfy a Carolina Core, Major, or other Minor requirement may be used to satisfy the Integrated Information Technology Minor requirements. In the event of conflict for an Elective Course, any other ITEC Elective course may be substituted to satisfy the minor.

### Integrated Information Technology, B.S.

**Accreditation**


### Learning Outcomes

- Students will demonstrate the ability to function effectively on teams to accomplish a common goal. (d)
- Students will demonstrate the ability to communicate effectively with a range of audiences. (f)
- Students will use and apply current technical concepts and practices in the core information technologies. (j)
- Students will recognize the need for and be able to engage in continuing professional development. (h)
- Students will demonstrate an ability to analyze a problem and identify and define the computing requirements appropriate to its solution. (b)
- Students will demonstrate an understanding of professional, ethical, legal, security, and social issues and responsibilities. (e)
- Students will demonstrate the ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. (c)
- Students will demonstrate the ability to identify / analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems. (k)
- Students will demonstrate the ability to effectively integrate IT-based solutions into the user environment. (l)
- Students will demonstrate the ability to analyze the local and global impact of computing on individuals, organizations, and society. (g)
- Students will demonstrate the ability to assist in the creation of an effective project plan. (n)
- Students will demonstrate the ability to use current techniques, skills, and tools necessary for computing practice. (i)
- Students will demonstrate the ability to apply knowledge of computing and mathematics appropriate to the discipline. (a)
- Students are able to identify IT best practices and standards and their application. (m)

### Academic Standards

**Program GPA**

Program GPA requirement policies are described in the College of Engineering and Computing (p. 366) section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Integrated Information Technology B.S. program: all Lower Division Integrated Information Technology courses, all Integrated Information Technology Major courses and all Major Elective courses.
Minimum Course Grades
The Integrated Information Technology B.S. program requires that a grade of “C” or better be earned in MATH 174 and all ITEC courses applied to the degree.

Admissions
Entrance Requirements
Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of “C” or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of “C” or better.

The last 25% of a student’s degree must be completed in residence at the University, and at least half of the hours in the student’s major courses and in the student’s minor courses (if applicable) must be taken at the University.

Degree Requirements (120 hours)
See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>41-53</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>36</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
- ENGL 101 - must be passed with a grade of C or higher
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6 hours)
- MATH 174 - must be passed with a grade of C or higher
- STAT 201 or STAT 205

SCI – Scientific Literacy (7 hours)
- two CC-SCI courses (p. 743) from the natural sciences including one laboratory selected from Astronomy, Biology, Chemistry, Environmental Science, Geology, Marine Science or Physics

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (3 hours)
- SPCH 140 or SPCH 230

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 31 hours.

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (41-53 hours)
Supporting Courses (39-41 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics 1</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 240</td>
<td>Business Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:
Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Integrated Information Technology, B.S.

Mechanical Engineering
Department Website (https://www.sc.edu/study/colleges_schools/engineering_and_computing/departments/mechanical_engineering/)

Jamil A. Khan, Chair

The Department of Mechanical Engineering offers the Bachelor of Science in Engineering degree with a major in mechanical engineering. The mechanical engineer is concerned with the design, development, and manufacture of both mechanical and thermal systems. These systems may vary from the internal combustion engine to power automobiles and airplanes to the use of computer vision in biomedical and automated manufacturing applications.

The objectives of the mechanical engineering undergraduate program are: to educate students in the application of mathematics, science, and engineering principles for solving mechanical engineering problems; to develop students' professional skills that enable a successful career; and to provide students with the broad education necessary to practice engineering in a global and societal context.

These objectives are met through a curriculum that provides a strong foundation in the basic and applied sciences and in the liberal arts, with increasing emphasis on mechanical engineering topics in the junior and senior years. The curriculum also includes a wide variety of technical electives, a series of engineering laboratory courses to supplement the theory presented in lecture as well as liberal arts courses to give the mechanical engineering student a well-balanced education. A capstone senior design experience gives the student opportunities to integrate and apply the knowledge and skills learned throughout the mechanical engineering curriculum.

The department, jointly with the Department of Chemical Engineering, offers a major in biomedical engineering.

Bachelor's/Master's Degrees Accelerated Program
The Bachelor's/Master's Degrees Accelerated Program in Mechanical Engineering allows undergraduate students to complete both the B.S.E. degree and M.E. or M.S. degree in as few as five years. The use of dual credit—courses that can be used toward both degrees—enables acceleration of the program, reducing the total enrollment of the student by one semester.

Mechanical engineering undergraduate students may apply for approval of an accelerated education plan in the semester in which they will complete 90 hours of undergraduate course work. In addition, students must have a sufficient foundation in mechanical engineering course work to enable them to take graduate-level courses. University and department

Major Map

Electives (0-14 hours)
The IIT curriculum includes 0-14 hours of electives depending on how students fulfill the Carolina Core requirements. Any course in the university can be used to satisfy the elective requirement (including additional electives in the major).

4. Major Requirements (36 hours)
Must be passed with a grade of C or higher.

Major Courses (33 hours)

Course | Title | Credits
--- | --- | ---
ITEC 301 | Professional Internship Seminar | 3
ITEC 362 | Introduction to Web Systems | 3
ITEC 370 | Database Systems in Information Technology | 3
ITEC 444 | Introduction to Human Computer Interaction | 3
ITEC 445 | Advanced Networking | 3
ITEC 447 | Management of Information Technology | 3
ITEC 493 | Information Technology Security for Managers | 3
ITEC 495 | Professional Internship | 6
ITEC 560 | Project Management Methods | 3
ITEC 564 | Capstone Project for Information Technology | 3

Total Credit Hours | 33

Major Elective (3 hours)
Any 3-credit ITEC course numbered 400 or above that is not used to satisfy a major or minor requirement.
regulations stipulate that applicants must have a minimum GPA of 3.40, both overall and in mechanical engineering courses. Students in the accelerated program must maintain a GPA of 3.40 while pursuing the B.S.E. degree.

Students applying to this program must submit to The Graduate School a completed “Application for Admission to a Combined Bachelor’s/Master’s Education Plan” with endorsements of the undergraduate advisor, the department graduate director, and the department chair. The dean of The Graduate School has final authority for approving accelerated education plans. A “Senior Privilege Course Work Authorization” must be submitted for each semester in which one or more of these courses are taken.

Participation in the accelerated program does not require acceptance into The Graduate School. After completing the B.S.E. degree, students wishing to continue toward a master’s degree in mechanical engineering at USC must apply formally to The Graduate School by submitting the appropriate form and required supporting documents. Students in the accelerated program will be eligible for graduate assistantships upon admission to The Graduate School.

Only graduate-level courses (numbered 500 and above, including up to three credit hours of project/research work leading to a master’s thesis) satisfying both B.S.E. and masters degree requirements may be used for dual credit. No more than nine credit hours may be used as dual credit. The graduate courses used for dual credit must be taken during the students final undergraduate year. No more than nine credit hours (including those obtained under senior privilege and the college’s Plan “M” for undergraduate juniors and seniors) may be applied toward a master’s degree.

**Programs**

- Aerospace Engineering Minor (p. 418)
- Aerospace Engineering, B.S.E. (p. 419)
- Mechanical Engineering, B.S.E. (p. 421)
- Nuclear Engineering Minor (p. 424)

**Courses**

**AESP 101 - Introduction into Aerospace Engineering (3 Credits)**

Historical overview of air and space flight. Principles of flight and characterization of the atmosphere and space. Vehicle concepts, and an introduction to aerodynamics, materials, structures, propulsion, flight mechanics, control, aircraft systems, and design.

**AESP 265 - Aerodynamics I Incompressible Flow (3 Credits)**


**Prerequisites:** MATH 242, EMCH 201.

**AESP 314 - Energy Power and Propulsion (3 Credits)**

Introduction to aircraft and rocket engines with emphasis on the performance and characteristics of various types of propulsion systems, including turbojet, turboprop, ramjet, scramjet and liquid & solid propellant rockets.

**Prerequisites:** EMCH 290.

**AESP 350 - Aerospace Systems (3 Credits)**

Fundamentals of flight control systems, engine control systems, fuel systems, hydraulic systems, landing gears, electrical systems, environmental control systems, emergency systems, avionics and rotary wing systems. Aerospace systems design and development methodology.

**Prerequisites:** PHYS 212.

**AESP 361 - Aerospace Laboratory I (3 Credits)**

Aerospace component experiments: drag polar and Cm-alpha curve for an airfoil; fuselage and landing gear drag; compliance matrix of an isotropic and a laminated composite; mechanical and thermal properties of various aerospace materials; reporting.

**Prerequisites:** STAT 509, AESP 265.

**Prerequisite or Corequisite:** EMCH 371, EMCH 310.

**AESP 362 - Aerospace Laboratory II (3 Credits)**

Introduction to experimental determination of structures, propulsion and systems aspects of aerospace engineering. Oral and written presentations and reports.

**Prerequisites:** AESP 361.

**AESP 415 - Aircraft Design Part I Basics (3 Credits)**

Aircraft mission analysis; Conceptual aircraft design; Weight estimation; Wing design; Payload compartment design; Stabilizer and control surface design; engine selection; aircraft systems design; performance analysis; trade studies; design verification; design documentation and presentation.

**Prerequisites:** AESP 265.

**Prerequisite or Corequisite:** AESP 350 and AESP 314.

**Graduation with Leadership Distinction:** GLD: Research

**AESP 420 - Flight and Orbital Mechanics (3 Credits)**

Derivation of the general equations of motion (EoM) for aircraft and space flight. Solution of Aircraft EoM for cruise flight and flight maneuvers including coordinated turns, takeoff and landing. Solution of EoM for orbital mechanics problems including transfer trajectories. Calculation of required specific impulses. Design of interplanetary trajectories.

**Prerequisites:** MATH 141, EMCH 200, EMCH 310.

**AESP 428 - Design I (3 Credits)**


**Prerequisites:** AESP 350, EMCH 577.

**Prerequisite or Corequisite:** AESP 314, EMCH 377.

**Graduation with Leadership Distinction:** GLD: Research

**AESP 466 - Flight Dynamics and Control (3 Credits)**

Flight Dynamics and Control is a three-credit course that covers the dynamics of aircraft motion, methods of analysis and design for stability and control, longitudinal motions, lateral-directional motions, and coupled longitudinal and lateral-directional motions.

**Prerequisites:** EMCH 330 or ENCP 330, AESP 420.
EMCH 101 - Introduction to Mechanical Engineering (3 Credits)
Introduction to Mechanical Engineering; Engineering thinking; Problem-solving skills; University life and academic expectations.

EMCH 111 - Introduction to Computer-Aided Design (3 Credits)
Principles and practice of visualization and graphical representation using modern computer-aided design tools.

EMCH 200 - Statics (3 Credits)
Principles of mechanics; Equilibrium of particles and rigid bodies; Distributed forces, centroids, and centers of gravity; Moments of inertia of areas; Analysis of simple structures and machines; Friction. 
Prerequisites: C or better in MATH 141.

EMCH 201 - Introduction to Applied Numerical Methods (3 Credits)
Introduction and application of linear algebra and numerical methods to the solution of physical and engineering problems. Techniques include iterative solution techniques, methods of solving system of equations, and numerical integration and differentiation. 
Prerequisites: MATH 141.

Corequisite: MATH 142.

Cross-listed course: ENCP 201, PHYS 311

EMCH 220 - Mechanical Engineering Fundamentals for Non-Majors (3 Credits)
Introduction to the fundamentals of mechanical engineering for other engineering disciplines. Excluded: Mechanical Engineering Majors. 
Prerequisites: MATH 142, PHYS 211.

EMCH 260 - Solid Mechanics (3 Credits)
Study of forces and deformation in solids; Basic concepts of stress and strain; Elastic relations between stress and strain; Stress and strain transformations; Applications to mechanical components under axial, torsional, bending and pressure loads. 
Prerequisites: C or better in MATH 241; C or better in EMCH 200 or ENCP 200.

EMCH 290 - Thermodynamics (3 Credits)
Definitions, work, heat, and energy; First law of analyses of systems and control volumes; Second law analysis. 
Prerequisites: C or better in PHYS 211; C or better in MATH 142.

EMCH 308 - Introduction to Finite Element Stress Analysis (3 Credits)
Introduction to stress analysis for beams, plates, shells, and solids using finite element based computer tools. 
Prerequisites: EMCH 260.

EMCH 310 - Dynamics (3 Credits)
Kinematics of particles and rigid bodies; Kinetics of particles, emphasis on Newton's second law: energy and momentum methods for the solution of problems; Applications of plane motion of rigid bodies. 
Prerequisites: C or better in MATH 242; C or better in EMCH 200 or ENCP 200.

EMCH 327 - Machine Design (3 Credits)
Design against static failure and fatigue failure of structural members and machine parts; Design and selection of components including: fasteners, welds, shafts, springs, gears, bearings, and chain drives. 
Prerequisites: EMCH 260 or ENCP 260.

Graduation with Leadership Distinction: GLD: Research

EMCH 330 - Mechanical Vibrations (3 Credits)
Analysis of forced and damped one-degree-of-freedom systems. Rotating unbalance and vibration isolation. Introduction to two-degrees-of-freedom systems. 
Prerequisites: MATH 242 and either EMCH 310 or ENCP 210.

EMCH 332 - Kinematics (3 Credits)
The application of vector and graphical analysis for the determination of positions, velocities and accelerations of planar linkages used in modern machinery. 
Prerequisites: D or better in EMCH 310 or ENCP 210.

EMCH 354 - Heat Transfer (3 Credits)
One- and two-dimensional steady and transient heat conduction; Free and forced convection; Boiling and condensation; Radiation; Heat exchangers. 
Prerequisites: D or better in EMCH 360 or AESP 265 or ENCP 360.

EMCH 360 - Fluid Mechanics (3 Credits)
Mechanical engineering applications of fluid statics and dynamics. Conservation of mass, momentum, and energy. Similitude and dimensional analysis, open channel flow, lift and drag. Introduction to turbulent flow. 
Prerequisites: C or better in EMCH 200 or ENCP 200; EMCH 201 or ENCP 201, MATH 241.

EMCH 361 - Mechanical Engineering Laboratory I (3 Credits)
Principles of measurement, analysis of data, and experimental planning. Written and oral presentation techniques. 
Prerequisites: STAT 509, PHYS 212.

Prerequisite or Corequisite: EMCH 260 or ENCP 260, EMCH 290 or ENCP 290.

EMCH 362 - Mechanical Engineering Laboratory II (3 Credits)
Introduces design of experiments with emphasis on confidence levels, dimensional analysis, correlations or experimental data, experimental variance, and uncertainty analyses. Oral and written reports. Excluded: Mechanical Engineering majors. 
Prerequisites: EMCH 361, ELCT 220 or ELCT 221.

Prerequisite or Corequisite: EMCH 360 or ENCP 360, EMCH 310 or ENCP 210.

EMCH 363 - Mechanical Engineering Laboratory III (3 Credits)
Introduces design of experiments with emphasis on confidence levels, dimensional analysis, correlations or experimental data, experimental variance, and uncertainty analyses. Oral and written reports. 
Prerequisites: EMCH 362.

Prerequisite or Corequisite: EMCH 332, EMCH 354, EMCH 371.

EMCH 367 - Controls (3 Credits)
Introduction to closed-loop control systems in Mechanical Engineering; Development of concepts, including transfer function, feedback, frequency response, and system stability; Programmable logic controllers (PLC); Control system design methods. 
Prerequisites: D or better in EMCH 310 or ENCP 210; D or better in EMCH 368.
EMCH 368 - Mechatronics (4 Credits)
Introduction to the principles of integrating mechanical, electrical and computer engineering disciplines within a unified framework towards designing mechatronic systems; Fundamental overview of mechatronics (sensors, signals, actuators, microprocessors and models of mechatronic systems); Experimental exercises using microcontrollers.
Prerequisites: D or better in CSCE 206; D or better in ELCT 220 or ELCT 221; D or better in EMCH 260 or ENCP 260.

EMCH 371 - Materials (3 Credits)
An introduction to the relationships between chemical bonding, crystal structure, phase equilibria, microstructure, and properties of engineering materials.
Prerequisites: D or better in EMCH 260 or ENCP 260.

EMCH 377 - Manufacturing (3 Credits)
Prerequisites: EMCH 371.

EMCH 380 - Project Management for Engineers (3 Credits)
Introduction to decision making for engineering projects. Planning methods, forecasting, exploratory charts, team building, leadership, quality control, project scheduling, and project economics.
Prerequisites: D or better in MATH 241.

EMCH 394 - Applied Thermodynamics (3 Credits)
Prerequisites: EMCH 201, EMCH 290.

EMCH 427 - Mechanical Design I (3 Credits)
Lecture topics include design specifications and planning, innovation, economic factors, safety, reliability, ethics and social impact. Selection, specification, and feasibility study of an open-ended design project to be completed in EMCH 428.
Prerequisites: EMCH 327, EMCH 354, EMCH 371, EMCH 394.
Prerequisite or Corequisite: EMCH 332, EMCH 362.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

EMCH 428 - Design II (3 Credits)
Open-ended design project continuation including: identifying and performing relevant engineering analyses, parametric design refinement, project life cycle economic analysis, product/prototype construction, testing, and evaluation of the design; Consideration of safety, reliability, sustainability, and social impact.
Prerequisites: D or better in EMCH 427.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

EMCH 441 - Automotive System Fundamentals (3 Credits)
Automotive engineering systems, descriptions, and associated operating and design principles. Past, present, and future automotive systems and components.
Prerequisites: EMCH 260, EMCH 394.

EMCH 460 - Special Problems (1-3 Credits)
Individual investigation or studies of special topics. A maximum of three credits may be applied toward a degree. Advance approval of project proposal by advisor and instructor.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

EMCH 497 - Design of Thermal Systems (3 Credits)
Methodology of design, mathematical modeling of thermal equipment, system simulation, system optimization using digital computer, and investment economics. Requires a semester-long design project. Two lectures and one problem session per week.
Prerequisites: EMCH 354, EMCH 394.
Graduation with Leadership Distinction: GLD: Research

EMCH 499 - Fundamentals of Engineering Preparation (1 Credit)
Preparation for the Fundamentals of Engineering Exam. Review general engineering and mechanical engineering-specific areas. Restricted to seniors. May not be used to satisfy program requirements.

EMCH 501 - Engineering Analysis I (3 Credits)
Engineering applications of solution techniques for ordinary and partial differential equations, including Sturm-Liouville theory, special functions, transform techniques, and numerical methods.
Prerequisites: MATH 242.

EMCH 502 - Engineering Analysis II (3 Credits)
Engineering applications of optimization methods, calculus of variations including approximate methods, and probability concepts.
Prerequisites: MATH 242.

EMCH 507 - Computer-Aided Design (3 Credits)
Solid modeling using commercial computer-aided design (CAD) applications package to reverse engineer-manufactured parts. Analytical curves and surfaces, transformation matrices, assembly modeling, and computer tools for analyzing parts and mechanisms.
Prerequisites: EMCH 201, EMCH 327.

EMCH 508 - Finite Element Analysis in Mechanical Engineering (3 Credits)
Prerequisites: EMCH 201, EMCH 327.

EMCH 509 - Computer-Aided Manufacturing (3 Credits)
Optimizing computer-controlled machining processes, programmable logic controllers (PLCs), motion control of servomechanisms, CNC machining practices and programming, and robotics.
Prerequisites: D or better in MATH 241.

EMCH 516 - Control Theory in Mechanical Engineering (3 Credits)
An introduction to closed-loop control systems; development of concepts, including transfer function, feedback, frequency response, and system stability by examples taken from mechanical engineering practice; control system design methods.
Prerequisites: MATH 242, EMCH 330.
EMCH 520 - Technology Planning (3 Credits)
Assessment of technological needs in the organization; coupling research and development to production; selection and evaluation of the technical project/program; technical planning, resource allocation, direction, and control; effective use and development of the engineering staff; the process of and barriers to technological change; technology, values, and policy. Senior or graduate standing.

EMCH 521 - Concurrent Engineering (3 Credits)
A systematic approach to the mechanical design of products, requiring the concurrent design of all related processes.
Prerequisites: EMCH 327.

EMCH 522 - Design for Manufacture and Assembly (3 Credits)
Product design principles for early consideration of issues to shorten product development time and to ensure smooth transition to manufacturing, thus accelerating time-to-market.
Prerequisites: EMCH 327 and EMCH 377.

EMCH 527 - Design of Mechanical Systems (3 Credits)
Summary of mechanical design, project management, product liability and the law, intellectual property ethics and professionalism.
Prerequisites: EMCH 327.

EMCH 528 - Product Safety Engineering (3 Credits)
Design considerations and methodologies for products to ensure adequate safeguards for the prevention of accidents, failures, and injuries. Senior standing.

EMCH 529 - Sustainable Design and Development (3 Credits)
System design and development accomplished with consideration of environmental/ecological, economic, and social constraints. Students will be introduced to sustainable design and accomplish a design project. Senior standing.

EMCH 530 - Introduction to Engineering Optimization (3 Credits)
Mathematical formulation of an optimum design problem, introduction to optimum design concepts and multidisciplinary design optimization. Use of mathematical programming methods for unconstrained and constrained minimization for engineering design optimization.
Prerequisites: C or better in MATH 142, Graduate standing.

EMCH 532 - Intermediate Dynamics (3 Credits)
Kinematics and dynamics of particles and rigid bodies using Newtonian mechanics. Work/energy, impulse/momentum, 3-D motion.
Prerequisites: EMCH 332.

EMCH 535 - Robotics in Mechanical Engineering (3 Credits)
Overview of robotics in practice and research: forward and inverse kinematics, statics and dynamics, trajectory generation, control, vision, and motion planning.
Prerequisites: EMCH 332.

EMCH 544 - Compressible Fluid Flow (3 Credits)
Application of the conservation laws of a compressible fluid to isentropic flows, flow with friction, and flows with heating or cooling. Shock and expansion waves. Nozzle and diffuser design.
Prerequisites: EMCH 354.

EMCH 550 - Introduction to Nuclear Safeguards (3 Credits)
International nuclear non-proliferation programs and activities, proliferation risk assessment, and nuclear materials management and safeguards, including physical protection systems, material accounting and control, monitoring, and regulatory issues.
Prerequisites: CHEM 112, CHEM 112L, PHYS 212, PHYS 212L, MATH 241, MATH 242.

EMCH 551 - Nuclear Energy in the Hydrogen Economy (3 Credits)
The current role of nuclear energy in the US and global energy mix will be described and the potential for future growth will be surveyed, particularly in the development of the hydrogen economy.
Prerequisites: EMCH 354.

EMCH 552 - Introduction to Nuclear Engineering (3 Credits)
Radioactivity and nuclear reactions; steady state and transient nuclear reactor theory.

EMCH 553 - Nuclear Fuel Cycles (3 Credits)
Processing of nuclear fuel including fabrication, irradiation, and waste disposal or storage. In-core and out-of-core fuel management. Fuel cycle economics.
Prerequisites: EMCH 552.

EMCH 554 - Intermediate Heat Transfer (3 Credits)
Radiant heat exchange, combined modes of heat transfer, computer techniques in heat transfer analysis and design, environmental heat transfer.
Prerequisites: EMCH 354.

EMCH 555 - Instrumentation for Nuclear Engineering (3 Credits)
Basic operational principles of radiation detection and nuclear instrumentation systems. Selection of the proper detector to measure radiation. Statistical analysis of results.
Prerequisite or Corequisite: EMCH 552 or PHYS 511.

EMCH 555L - Nuclear Instrumentation Laboratory (1 Credit)
Use of nuclear radiation detection and instrumentation systems and computers. Data acquisition and analysis.
Corequisite: EMCH 555.

EMCH 556 - Introduction to Risk Analysis and Reactor Safety (3 Credits)
An introduction to probabilistic risk assessment (PRA) methods as applied to nuclear power plants but also examples from the chemical industry, aerospace, transportation, and other sectors. Addresses failure and reliability analysis, fault trees, event trees, reactor safety, regulatory practice.
Prerequisites: STAT 509.

EMCH 557 - Introduction to Radiation Shielding and Sources (3 Credits)
Radiation interactions and transport, design of radiation shields, point kernel, and Monte Carlo methods. Dosimetry, buildup factors, radiation sources, and shield materials.

EMCH 558 - Introduction to Nuclear Reactor Systems (3 Credits)
PWR and BWR reactors, reactor system designs for accident prevention and mitigation, protection systems, containment design, emergency cooling requirements, code of federal regulations, and design criteria.
Corequisite: EMCH 552.
EMCH 560 - Intermediate Fluid Mechanics (3 Credits)
Prerequisites: EMCH 310, EMCH 360.

EMCH 561 - Current Topics in Mechanical Engineering (1-3 Credits)
Special topics related to current issues in mechanical engineering. Course content varies and will be announced in the schedule of classes by title.
Prerequisites: EMCH 260, EMCH 310.

EMCH 562 - Micro/nanofluidics and Lab-on-a-Chip (3 Credits)
Basic fluid mechanics, capillary, drop and micro/nanoparticle, electrophoretics; Micropump, mixer, preconcentrator, electrophoresis, microactuator and particle manipulator; Sensors for pressure, velocity, concentration, temperature in environmental monitoring/biodefence, clinical diagnostics, drug discovery/delivery. Restricted to: Upper division.
Prerequisites: CHEM 112, CHEM 112L, PHYS 212.

EMCH 567 - Bio Nano/Micro Electro-Mechanical Systems (3 Credits)
Nanotechnology and microfabrication for nano/microstructures, photolithography, self-assembly, etching techniques, physical and chemical vapor deposition, surface and bulk micromachining, MEMS integration and packaging; applications in Biomedical Engineering, microactuators, biomicrosensors, and biomedical devices.
Prerequisites: CHEM 112, CHEM 112L, PHYS 212.

EMCH 570 - Mechanical Behavior of Materials (3 Credits)
Micromechanisms of the deformation and fracture of structural materials; brittle versus ductile behavior; fatigue and creep; strengthening mechanisms; mechanical testing techniques; methods in analysis of mechanical failures.
Prerequisites: EMCH 260, EMCH 371.

EMCH 572 - Physical Metallurgy (3 Credits)
Equilibrium and phase relations in metallic systems; kinetics of phase transformations; annealing and precipitation phenomena.
Prerequisites: EMCH 371.

EMCH 573 - Introduction to Nuclear Materials (3 Credits)
Materials for nuclear applications; materials degradation processes occurring in the nuclear reactor environment. Restricted to Engineering Upper Division and Graduate Students.
Prerequisites: EMCH 260.

EMCH 575 - Adaptive Materials and Smart Structures (3 Credits)
A multidisciplinary introductory course addressing the engineering field of adaptive materials and smart structures.
Prerequisites: EMCH 260, EMCH 310.

EMCH 576 - Fundamentals and Applications of Fuel Cells (3 Credits)
Study of fuel cell principles, fuel cell characterization, characteristics of the major types of fuel cells, fuel cell and stack components, fuel cell stack and system design, fuel cell applications in portable, transportation, and stationary areas, as well as the current status and future research focus of fuel cells. Restricted to: Upper division.
Prerequisites: EMCH 290 or ECHE 310 or ENCP 290.

EMCH 577 - Aerospace Structures I (3 Credits)
Static analysis of aerospace structural elements such as bars, beams, columns, plates, and shells. Topics include, but not limited to elasticity theory, simple beam theory, boundary value problems, and structural stability. Upper division or graduate status.

EMCH 578 - Introduction to Aerodynamics (3 Credits)
Fundamentals of aerodynamics, elements of compressible flow, thin airfoil theory, finite wing theory, flow through nozzles, diffusers and wind tunnels, normal and oblique shock waves, elements of the methods of characteristics of finite difference solutions for compressible flows, aspects of hypersonic flow.
Prerequisites: MATH 242.

EMCH 580 - Mechanics of Solid Biomaterials (3 Credits)
Prerequisites: EMCH 260.

EMCH 584 - Advanced Mechanics of Materials (3 Credits)
Topics in stress analysis, including unsymmetrical bending, three-dimensional stress-strain; torsion; rotational stress; thick-walled pressure vessels; beams on elastic foundations; and stress concentration.
Prerequisites: EMCH 260.

EMCH 585 - Introduction to Composite Materials (3 Credits)
Prerequisites: EMCH 327, EMCH 371, MATH 242.

EMCH 586 - Experimental Stress Analysis (3 Credits)
Stress analysis utilizing experimental techniques including transmission and scattered light photoelasticity, strain gauges, and brittle coatings. Introduction to modern concepts of coherent optics in stress analysis with emphasis on engineering applications.
Prerequisites: EMCH 260.

EMCH 592 - Introduction to Combustion (3 Credits)
Chemical thermodynamics, reaction kinetics, and combustion phenomena in energy production. Application to the modeling of coal combustion, incineration, and combustion engines.
Prerequisites: EMCH 354, EMCH 394.

EMCH 594 - Solar Heating (3 Credits)
Solar radiation; review of heat transfer and radiation characteristics of relevant materials; flat plate and focusing collectors; energy storage models for design of solar heating systems; system design by computer simulation; direct conversion by solar cells.
Prerequisites: EMCH 290, EMCH 354, or ECHE 321.

EMCH 597 - Thermal Environmental Engineering (3 Credits)
Prerequisites: EMCH 354, EMCH 394.

Aerospace Engineering Minor

A student may obtain a minor in aerospace engineering by completing at least 18 credit hours consisting of three core courses and three approved elective courses.
Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMCH 577</td>
<td>Aerospace Structures I</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 578</td>
<td>Introduction to Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 508</td>
<td>Finite Element Analysis in Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>or EMCH 585</td>
<td>Introduction to Composite Materials</td>
<td></td>
</tr>
</tbody>
</table>

Elective Aerospace Courses

Select at least three of the following: 9

- EMCH 508 Finite Element Analysis in Mechanical Engineering
- EMCH 516 Control Theory in Mechanical Engineering
- EMCH 522 Design for Manufacture and Assembly
- EMCH 532 Intermediate Dynamics
- EMCH 544 Compressible Fluid Flow
- EMCH 554 Intermediate Heat Transfer
- EMCH 560 Intermediate Fluid Mechanics
- EMCH 571 Mechanical Behavior of Materials
- EMCH 575 Adaptive Materials and Smart Structures
- EMCH 584 Advanced Mechanics of Materials
- EMCH 585 Introduction to Composite Materials
- EMCH 592 Introduction to Combustion

Aerospace Engineering, B.S.E.

Program Educational Objectives

Within a few years of graduation, our graduates are expected to achieve the following milestones:

- Advance professionally in the aerospace industry, automotive industry, technical consultancy or in any other chosen career field
- Earn advanced degrees in aerospace engineering, or a related technical discipline such as automotive engineering, business or law
- Attain leadership positions in today’s rapidly changing, increasingly technological, global society.
- Be agents of innovation and function effectively as responsible members of professional teams.

Learning Outcomes

The program is intended to train students in the field of aerospace engineering such that they are well prepared for a career as a multidisciplinary engineer in the aerospace industry or any other industry that requires the abilities specified by ABET for engineers at the BS level:

- Students shall have an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Students shall have an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Students shall have an ability to communicate effectively with a range of audiences.
- Students shall have an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Students shall have an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Students shall have an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- Students shall have an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Academic Standards

Program GPA

Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Aerospace Engineering B.S.E. program: all Lower Division Engineering courses, all Aerospace Engineering Major courses, and all Track Electives courses.

Admissions

Entrance Requirements

Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of “C” or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of “C” or better.

The last 25% of a student’s degree must be completed in residence at the University, and at least half of the hours in the student’s major courses and in the student’s minor courses (if applicable) must be taken at the University.

Degree Requirements (126-138 hours)

See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.
Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>53</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>39</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
- ENGL 101 - must be passed with a grade of C or higher
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (8 hours)
must be passed with a grade of C or higher
- MATH 141
- MATH 142

SCI – Scientific Literacy (8 hours)
must be passed with a grade of C or higher
- CHEM 111 & CHEM 111L
- PHYS 211 & PHYS 211L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- PHIL 325 (CMS/VSR overlay)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- PHIL 325 (CMS/VSR overlay)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 34 hours.

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (53 hours)

Supporting Courses (53 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundational Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>3</td>
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<tr>
<td>CHEM 112L</td>
<td>General Chemistry II Lab</td>
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<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344</td>
<td>Applied Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212L</td>
<td>Essentials of Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>Lower Division Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AESP 101</td>
<td>Introduction into Aerospace Engineering</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 101</td>
<td>Introduction to Engineering I</td>
<td></td>
</tr>
<tr>
<td>EMCH 111</td>
<td>Introduction to Computer-Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 102</td>
<td>Introduction to Engineering II</td>
<td></td>
</tr>
<tr>
<td>EMCH 200</td>
<td>Statics (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td></td>
</tr>
<tr>
<td>EMCH 260</td>
<td>Solid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 260</td>
<td>Introduction to the Mechanics of Solids</td>
<td></td>
</tr>
<tr>
<td>EMCH 290</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 290</td>
<td>Thermodynamic Fundamentals</td>
<td></td>
</tr>
</tbody>
</table>

Track Electives
Select one of the following tracks: 15

Aeromechanical Systems:
- AESP 415 Aircraft Design Part I Basics
- EMCH 585 Introduction to Composite Materials
- EMCH 308 Introduction to Finite Element Stress Analysis

Select two of the following:
- EMCH 332 Kinematics
- EMCH 354 Heat Transfer
- EMCH 535 Robotics in Mechanical Engineering
- EMCH 544 Compressible Fluid Flow
- EMCH 530 Introduction to Engineering Optimization

Integrated Information Technology:
- ITEC 233 Introduction to Computer Hardware and Software
Undergraduate 421

ITEC 245 Introduction to Networking

Select two of the following:
- ITEC 444 Introduction to Human Computer Interaction
- ITEC 445 Advanced Networking
- ITEC 493 Information Technology Security for Managers

Select one of the following:
- ITEC 370 Database Systems in Information Technology
  or ITEC 447 Management of Information Technology

Power Electronics Systems:
- ELCT 221 Circuits
- ELCT 222 Signals and Systems
- ELCT 371 Electronics
- ELCT 331 Control Systems
- ELCT 572 Power Electronics

Control Systems:
- ELCT 221 Circuits
- ELCT 222 Signals and Systems
- ELCT 371 Electronics
- ELCT 331 Control Systems
- ELCT 531 Digital Control Systems

Communication Systems:
- ELCT 221 Circuits
- ELCT 222 Signals and Systems

Select three of the following:
- ELCT 321 Digital Signal Processing
- ELCT 361 Electromagnetics
- ELCT 562 Wireless Communications
- ELCT 564 RF Circuit Design for Wireless Communications

Total Credit Hours 53

4. Major Requirements (39 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AESP 265</td>
<td>Aerodynamics I Incompressible Flow</td>
<td>3</td>
</tr>
<tr>
<td>AESP 314</td>
<td>Energy Power and Propulsion</td>
<td>3</td>
</tr>
<tr>
<td>AESP 350</td>
<td>Aerospace Systems</td>
<td>3</td>
</tr>
<tr>
<td>AESP 361</td>
<td>Aerospace Laboratory I</td>
<td>3</td>
</tr>
<tr>
<td>AESP 362</td>
<td>Aerospace Laboratory II</td>
<td>3</td>
</tr>
<tr>
<td>AESP 420</td>
<td>Flight and Orbital Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>AESP 428</td>
<td>Design I</td>
<td>3</td>
</tr>
<tr>
<td>AESP 466</td>
<td>Flight Dynamics and Control</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 310</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 210</td>
<td>Dynamics</td>
<td></td>
</tr>
<tr>
<td>EMCH 330</td>
<td>Mechanical Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 330</td>
<td>Introduction to Vibrations</td>
<td></td>
</tr>
<tr>
<td>EMCH 371</td>
<td>Materials</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 377</td>
<td>Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 577</td>
<td>Aerospace Structures I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 39

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Aerospace Engineering, B.S.E.

Mechanical Engineering, B.S.E.

Learning Outcomes

LO 1 - Complex Problems
an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

LO 2 - Design
an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

LO 3 - Communication
an ability to communicate effectively with a range of audiences

LO 4 - Judgement
an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

LO 5 - Teams
an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

LO 6 - Experiments
an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

LO 7 - Knowledge
an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Academic Standards

Program GPA

Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Mechanical Engineering B.S.E. program: All Lower Division Engineering courses, all Mechanical Engineering Major courses, and all courses used to satisfy a Mechanical Engineering Elective.
Admissions

Entrance Requirements

Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

The last 25% of a student’s degree must be completed in residence at the University, and at least half of the hours in the student’s major courses and in the student’s minor courses (if applicable) must be taken at the University.

Degree Requirements (125 hours)

See College of Engineering and Computing (p. 366) for progression requirements and special academic opportunities.

<table>
<thead>
<tr>
<th>Program of Study</th>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements (34-46 hours)</td>
<td>1. Carolina Core</td>
<td>34-46</td>
</tr>
<tr>
<td></td>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>3. Program Requirements</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>4. Major Requirements</td>
<td>43</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-46 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
- ENGL 101 - must be passed with a grade of C or higher.
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (8 hours)
*must be passed with a grade of C or higher.*
- MATH 141
- MATH 142

SCI – Scientific Literacy (8 hours)
*Must be passed with a grade of C or higher.*
- CHEM 111 & CHEM 111L
- PHYS 211 & PHYS 211L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
Select from the following:
- PHIL 325 (CMS/VSR overlay)
- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)
Select from the following:
- ENGL 102 (CMW/INF overlay)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)
Select from the following:
- PHIL 325 (CMS/VSR overlay)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 34 hours.

2. College Requirements (0 hours)

No college-required courses for this program.
3. Program Requirements (48 hours)

Supporting Courses (42 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 206</td>
<td>Scientific Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Select Math/Science Elective</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Any BIOL 110 or BIOL 301 and above, CHEM 112 or higher, MATH 300 or higher, PHYS 212 or higher, STAT 506 or higher course.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lower Division Engineering

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMCH 101</td>
<td>Introduction to Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 101</td>
<td>Introduction to Engineering I</td>
<td></td>
</tr>
<tr>
<td>EMCH 111</td>
<td>Introduction to Computer-Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 102</td>
<td>Introduction to Engineering II</td>
<td></td>
</tr>
<tr>
<td>EMCH 200</td>
<td>Statics (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 200</td>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>EMCH 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td></td>
</tr>
<tr>
<td>EMCH 260</td>
<td>Solid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 260</td>
<td>Introduction to the Mechanics of Solids</td>
<td></td>
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<tr>
<td>EMCH 290</td>
<td>Thermodynamics</td>
<td>3</td>
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<tr>
<td>or ENCP 290</td>
<td>Thermodynamic Fundamentals</td>
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<tr>
<td>ELCT 220</td>
<td>Electrical Engineering for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>or ELCT 221</td>
<td>Circuits</td>
<td></td>
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</tbody>
</table>

Mechanical Engineering Electives

Select six hours of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EMCH 308</td>
<td>Introduction to Finite Element Stress Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 441</td>
<td>Automotive System Fundamentals</td>
<td></td>
</tr>
<tr>
<td>EMCH 460</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td>EMCH 497</td>
<td>Design of Thermal Systems</td>
<td></td>
</tr>
<tr>
<td>Any EMCH course numbered 500 or higher</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 42

Any BIOL 110 or BIOL 301 and above, CHEM 112 or higher, MATH 300 or higher, PHYS 212 or higher, STAT 506 or higher course.

Elective (6 hours)

Any course taken at the University or transferred in as a University course that does not essentially duplicate a course otherwise applied to the degree. A list of such courses that cannot be used as a free elective is maintained in the department office. Courses that cannot be used includes:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENCP 101</td>
<td>Introduction to Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 102</td>
<td>Introduction to Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 200</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 201</td>
<td>Introduction to Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 210</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 260</td>
<td>Introduction to the Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 290</td>
<td>Thermodynamic Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 330</td>
<td>Introduction to Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 360</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 491</td>
<td>Capstone Design Project I</td>
<td>3</td>
</tr>
<tr>
<td>ENCP 492</td>
<td>Capstone Design Project II</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 101</td>
<td>Introduction to Chemical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>ECHE 310</td>
<td>Introductory Chemical Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 320</td>
<td>Chemical Engineering Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ECHE 321</td>
<td>Heat-Flow Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 101</td>
<td>Introduction to Civil Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 111</td>
<td>Introduction to Engineering Graphics and Visualization</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 200</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 201</td>
<td>Computational Methods for Civil Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 210</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 220</td>
<td>Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>ECIV 360</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 101</td>
<td>Introduction to Biomedical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>BMEN 211</td>
<td>Computational Tools for Modeling Biomedical Systems</td>
<td>3</td>
</tr>
<tr>
<td>BMEN 260</td>
<td>Introduction to Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>ELCT 101</td>
<td>Electrical and Electronics Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

4. Major Requirements (43 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMCH 310</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 210</td>
<td>Dynamics</td>
<td></td>
</tr>
<tr>
<td>EMCH 332</td>
<td>Kinematics</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 354</td>
<td>Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 360</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>or ENCP 360</td>
<td>Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>EMCH 361</td>
<td>Mechanical Engineering Laboratory I</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 362</td>
<td>Mechanical Engineering Laboratory II</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 367</td>
<td>Controls</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 368</td>
<td>Mechatronics</td>
<td>4</td>
</tr>
<tr>
<td>EMCH 371</td>
<td>Materials</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 377</td>
<td>Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 380</td>
<td>Project Management for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 427</td>
<td>Mechanical Design I</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 428</td>
<td>Design II</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Design elective:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMCH 327</td>
<td>Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>or ENCH 394</td>
<td>Applied Thermodynamics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 43

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.
Nuclear Engineering Minor

Minor Requirements

Prerequisite Courses (30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 211</td>
<td>Essentials of Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 211L</td>
<td>Essentials of Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>Essentials of Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212L</td>
<td>Essentials of Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Vector Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>28</strong></td>
</tr>
</tbody>
</table>

Four Core Courses and Two Approved Elective Courses

A student may obtain a minor in Nuclear Engineering by completing at least 18 credit hours consisting of four core courses and two approved elective courses.

Four Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMCH 552</td>
<td>Introduction to Nuclear Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 553</td>
<td>Nuclear Fuel Cycles</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 557</td>
<td>Introduction to Radiation Shielding and Sources</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 558</td>
<td>Introduction to Nuclear Reactor Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

The Electives for the Minor

A description of the courses satisfying the electives for the minor is maintained in the Department of Mechanical Engineering Office and on the Department’s website, http://www.me.sc.edu/nuclear/academics.html.
COLLEGE OF HOSPITALITY, RETAIL, AND SPORT MANAGEMENT

Matt T. Brown, Interim Dean

David A. Cárdenas, Associate Dean of Academic Programs

Samuel Todd, Associate Dean of Faculty Affairs, Diversity, and Operations

Kathy Smiling, Assistant Dean of Student Services

Adonis Sporty Jeralds, Assistant Dean of Diversity and Inclusion

Marianne C. Bickle, Director, Interdisciplinary Studies and Online Learning

Thomas H. Regan, Interim Chair, Department of Sport and Entertainment Management

Robin B. DiPietro, Director, School of Hotel, Restaurant, and Tourism Management

Jeffery M. Campbell, Chair, Department of Retailing

Degree Programs
The College of Hospitality, Retail, and Sport Management offers baccalaureate degrees in:

- Hospitality Management, B.S. (p. 436)
- Interdisciplinary Studies, B.A.I.S. (p. 426)
- Retailing, B.S. (p. 430)
- Sport and Entertainment Management, B.S. (p. 444)
- Tourism Management, B.S. (p. 439)

Progression Requirements
The requirements for continuing scholastic eligibility are determined by the statement on academic standing covering suspension, probation, and graduation as stated in the University bulletin. Acceptance to the professional division is based upon courses completed, GPA, and where applicable, practicum performance. Progression requirements for individual departments are specified under each department heading.

Graduation
To be eligible for graduation, students in the College of Hospitality, Retail, and Sport Management must meet all course requirements, be in good standing, and meet any specific departmental requirements as well as University requirements. A minimum grade of C is required in ENGL 101, ENGL 102 and all departmental courses used to satisfy major or professional area requirements. Individual departments may stipulate additional courses that require a minimum grade in order to be applied toward that major.

Any additional departmental requirements are indicated under each departmental heading.

Attendance Requirements
When students enroll in a particular course, they obligate themselves for all of the work which may be assigned. Absences, excused or not, do not absolve students of this responsibility. Punctual and regular attendance is vital to the discharge of this obligation.

Faculty members will notify students specifically of the attendance policy they intend to follow in each class. An instructor may impose a grade penalty for absence in excess of 10 percent of regularly scheduled class meetings.

Departments
- Interdisciplinary Studies (College of Hospitality, Retail, and Sport Management) (p. 425)
- Retailing (p. 428)
- School of Hotel, Restaurant and Tourism Management (p. 433)
- Sport and Entertainment Management (p. 441)

Interdisciplinary Studies (College of Hospitality, Retail, and Sport Management)

Department Website (https://www.sc.edu/study/colleges_schools/hrsm/study/degreeprograms/bais/)

The Bachelor of Arts in Interdisciplinary Studies (B.A.I.S.) degree program serves motivated students who have unique educational goals. Adult students who are already employed and students who possess an associate degree from an accredited institution may find the interdisciplinary studies program appropriate to their needs. Since the program is individualized, each applicant must be able to articulate appropriate academic goals.

The program has three curriculum components: general education courses, the interdisciplinary major, and an elective category. The interdisciplinary major is composed of upper-division course work which is uniquely defined by the goals of each student. The interdisciplinary major is complemented by an integrative senior seminar.

Each student must submit an application to the B.A.I.S. admissions committee. If approved, an academic advisor will help the student design an individualized program of study. The program of study must include at least 36 hours of upper-division USC course work and conform to all general University academic regulations for the baccalaureate degree. The B.A.I.S. requires a minimum of 120 approved hours to graduate. A minimum of 30 USC hours must be earned after acceptance into the B.A.I.S. program.

Subject to University and departmental policy, students may apply credits earned through independent study toward the B.A.I.S. degree. Up to 60 semester hours earned in an accredited associate degree program may be accepted toward fulfillment of B.A.I.S. requirements. University policy also permits up to 30 semester hours earned in correspondence, telecommunications, service schools, and off-campus extension classes to be accepted in partial fulfillment of baccalaureate degree requirements.

Baccalaureate Degree in Interdisciplinary Studies after Three Undergraduate Years and One Year of Medical or Dental School. Upon application to the College of Hospitality, Retail, and Sport Management, a student who has completed 90 hours or more of undergraduate work at the University of South Carolina (and the last 30 of which have been in residence at the University) with a minimum grade point average of...
2.00 will be granted the baccalaureate degree in interdisciplinary studies provided that:

1. The applicant has satisfied all graduation requirements for the B.A.I.S. degree at USC, except for the final 30 hours.
2. The applicant has not applied these USC credits to obtaining a baccalaureate degree from another institution.
3. The applicant submits an official transcript from an accredited medical or dental school demonstrating satisfactory completion of the first year of study leading to a postbaccalaureate degree.
4. The dean of the College of Hospitality, Retail, and Sport Management certifies that the requirements prescribed for the degree have been met.

Students enrolled in the University of South Carolina should contact the dean of the College of Hospitality, Retail, and Sport Management if they plan to leave the University prior to completion of a baccalaureate program to enter an accredited medical or dental school.

Entrance Requirements
Admission to the B.A.I.S. degree program requires acceptance to the University (see “Admissions” section for application procedures) and approval by the B.A.I.S. Admissions Committee.

Since enrollment is limited, an admissions committee has been established to review applications for admission to the B.A.I.S. degree program. Specific application procedures are as follows:

Students currently enrolled at the University of South Carolina:
1. Complete an application form obtained from the College of Hospitality, Retail, and Sport Management, stating how the B.A.I.S. degree will better help you meet your particular interests and educational goals.
2. Send a transcript of all postsecondary education with your application to the dean, College of Hospitality, Retail, and Sport Management.
3. Develop and submit a proposed program that you believe will help you meet your educational and career goals.

The committee will accept applications subject to the following deadlines: fall—July 30; spring—November 30; summer—April 30. Allow two weeks for reply after application is received.

Students not currently enrolled at the University of South Carolina: Admission to the University must be obtained before admission to the B.A.I.S. program can be considered.

Programs
- Interdisciplinary Studies, B.A.I.S. (College of Hospitality, Retail, and Sport Management) (p. 426)

Courses
IDST 390 - Introduction to Interdisciplinary Inquiry (3 Credits)
A study of the history, philosophy, and theory of and modes of inquiry in interdisciplinary studies.

Interdisciplinary Studies, B.A.I.S.
(College of Hospitality, Retail, and Sport Management)

The Bachelor of Arts in Interdisciplinary Studies (BAIS) program in the College of Hospitality, Retail and Sport Management (HRSM) at the University of South Carolina is a degree program that assists students in exploring interdisciplinary fields of study. The BAIS degree provides a pathway for degree completion with a goal of creating an integrated, interdisciplinary learning environment for analyzing and resolving issues in a variety of fields.

Learning Outcomes
- Students will be able to identify and/or analyze issues/problems in a chosen career field.
- Students will be able to develop logical and viable solutions to an issue/problem in a chosen career field.
- Students will be able to communicate ideas, issues/problems, solutions and or research-based information clearly.

Progression Requirements
Students will be initially accepted, if requirements are met, as a Pre-BAIS major. Pre-BAIS majors may take no more than 30 credit hours as a pre-major. Pre-BAIS majors must complete and submit an application to the College of HRSM for review. At this time, the applicant's transcript and intent of study will be reviewed.

Requirements including students having previously completed at least 60 credit hours of college credit or be at least 25 years of age and having at least an Institutional 2.0 GPA are required.

Each student must work with a B.A.I.S. advisor to design an individualized program of study. The program of study must include at least 36 hours of 300-level USC course work and conform to all general University academic regulations for the baccalaureate degree. The B.A.I.S. requires a minimum of 120 approved hours to graduate. A minimum Institutional GPA of 2.0 is required for entering into and graduation from the program.

A minimum of 30 USC hours must be earned after acceptance into the B.A.I.S. program.

Subject to University and departmental policy, students may apply up to 60 semester hours earned in an accredited associate degree program toward fulfillment of B.A.I.S. requirements. All courses accepted toward fulfillment of the BAIS requirements, must be a C or better.

Interdisciplinary Studies majors may pursue a minor in any course of study offered by the College of HRSM as well as any other University program with an approved minor. College of HRSM required courses may not be counted toward a minor.

Admissions
Entrance Requirements
The College of Hospitality, Retail, and Sport Management has a pre-professional and a professional division of student classification. All new students will begin in the pre-professional division. Progression into the professional division requires the approval of the department and
the successful completion of the requirements indicated under each departmental heading.

In addition to the academic admission requirements of the University and of the College of Hospitality, Retail, and Sport Management for admission to the pre-professional division, an enrollment limit into the professional division may be imposed by various departments. Such a limit would become necessary if enrollment levels exceed available department staffing and facility resources. In the event of an enrollment limit, admission to a department may take into account the applicant’s grade point average and other factors which may include the applicant’s potential for success in that major.

**Freshmen Students**

In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, freshmen applicants must meet all University admission requirements through the Office of Undergraduate Admissions.

**Transfer Students**

In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, transfer applicants from outside of the USC system must meet all University admission requirements through the Office of Undergraduate Admissions and have at least a 2.25 GPA. The Sport and Entertainment Management major requires a higher GPA than the minimum University entrance standards. Transfer applicants for Sport and Entertainment must have a cumulative GPA of a 3.0 on all college-level work attempted.

Students from other USC campuses who wish to enter the College of Hospitality, Retail, and Sport Management must fulfill one of the following requirements:

1. Be in good standing, meet all University admission requirements through the Office of Undergraduate Admissions, and have the cumulative GPA required for the program (see below).
2. Be in good standing and have completed 30 semester hours with the cumulative GPA required for the program (see below).

**Required GPA for Change of Campus**

- hospitality management - 2.25;
- integrated information technology - 2.25;
- interdisciplinary studies (2.0 and separate application required);
- retailing - 2.25;
- tourism management - 2.25;
- and sport and entertainment management - 3.0.

Students enrolled in other colleges on the Columbia campus must meet the following GPA requirements on all work taken:

- hospitality management - 2.25;
- integrated information technology - 2.25;
- interdisciplinary studies (2.0 and separate application required);
- retailing - 2.25;
- tourism management - 2.25;
- and sport and entertainment management - 3.0.

**Degree Requirements (120 hours)**

Graduation requires an institutional 2.0 GPA and meeting all other requirements provided through the degree completion program.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>38-53</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>36</td>
</tr>
</tbody>
</table>

**1. Carolina Core Requirements (31-43 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

* must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

**ARP – Analytical Reasoning and Problem Solving (6-8 hours)**

- Two CC-ARP courses (p. 743)

**SCI – Scientific Literacy (7 hours)**

- Two CC-SCI courses (p. 743), including at least one laboratory.

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

College of HRSM students must demonstrate proficiency in a foreign language by achieving a score of 2 or higher on the foreign language placement test or by completing one foreign language course through 110 or 121.

- CC-GFL courses (p. 743)

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

- any CC-GHS course (p. 743)

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- any CC-GSS course (p. 743)

Note: HRTM 280 is an option that meets this requirement.

**AIU – Aesthetic and Interpretive Understanding (3 hours)**

- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)**

- SPCH 140 or SPCH 230

**INF – Information Literacy ¹ (0-3 hours)**

- any overlay or stand-alone CC-INF course (p. 743)

**VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)**

- any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.
2. College Requirements (0 hours)

No college-required courses for this program.

3. Program Requirements (38-53 hours)

Electives (38-53 hours)

- The BAIS curriculum includes 38-53 hours of electives depending on how students fulfill the Carolina Core requirements. Any course in the university can be used to satisfy the elective requirement including additional electives in the major.

4. Major Requirements (36 hours)

A study and course selection and planning for upcoming semesters.

Major Requirements (36 hours)

- The major consists of at least 36 hours taken at the 300-level or above of USC coursework and 15 of those credit hours must be at the 400-level or above (including HRSM 497)

Major Courses (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRSM 301</td>
<td>HRSM Professional Development Seminar (with advisor approval)</td>
<td>3</td>
</tr>
<tr>
<td>or HRTM 344</td>
<td>Personnel Organization and Supervision</td>
<td></td>
</tr>
<tr>
<td>HRSM 497</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Areas of Concentration Model or Thematic Model (30 hours)

The major coursework includes 30 hours of courses organized in one of two approaches and this is determined by the student with the advisor's approval.

- Areas of Concentration model has at least 15 hours in each of two areas. Each course proposed must correspond to the intent of the area of concentration.
  - One area must be from one department within the College of HRSM and include a minimum of at least 15 credit hours.
  - The other area is determined by the student with the advisor's approval and must include a minimum of at least 15 credit hours.
- Thematic model has at least 10 courses that correspond directly to a theme and that, when viewed collectively, will establish a minimum amount of depth in a chosen theme. The thematic approach must result in at least 36 credit hours.
  - The thematic model must include at least 15 credit hours taken within the courses offered by the College of HRSM.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Programs

- Retailing Minor (p. 430)
- Retailing, B.S. (p. 430)

Courses

RETL 115 - Fashion History: A Global View (3 Credits)
- Examination of influences on fashion throughout history both domestically and globally.

RETL 116 - Fashion Through the Ages: 1800 A.D. to Present (3 Credits)
- Introduction to the history of fashion from 1800 A.D. to the present.

RETL 201 - Exploration of Retail Management and Fashion Merchandising Industries (3 Credits)
- Exploration of retail management and fashion merchandising curriculum and careers.

RETL 216 - History of Designers (3 Credits)
- Survey of influential fashion designers since 1857, examining their design influences and their contributions to fashion.

RETL 237 - The Changing Consumer Marketplace (3 Credits)
- The economic problems of everyday life presented within a business framework, promoting the student's well-being as a consumer.
  - Consideration is given to the economics of consumption, real income, consumer buying, consumer protection, operations leading to family prosperity, security, and estate planning.

RETL 242 - HRSM Professional Communications (3 Credits)
- Theory, processes, and applications of business communications.
  - Prerequisites: C or better in ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

RETL 250 - Sustainability in Fashion and Retail (3 Credits)
- Examination of concepts, practices, and opportunities of fashion sustainability (such as social and environmental responsibility) available to designers, developers and consumers.

RETL 261 - Principles of Accounting I (3 Credits)
- A study of the accounting cycle with emphasis on preparation and analysis of financial statements.

Interdisciplinary Studies, B.A.I.S.
RETL 262 - Principles of Accounting II (3 Credits)
A study of the preparation and interpretation of corporate financial statements with an emphasis on analysis and decision making techniques.
Prerequisites: RETL 261.

RETL 265 - Principles of Retailing (3 Credits)
Management methods, location analysis, store organization, personnel, planning, buying and pricing techniques, and customer service policies for retail firms.

RETL 268 - Principles of Fashion Merchandising (3 Credits)
The place of fashion in buying, selling, and promoting merchandise. Meets the needs of individuals in retail organizations from entry level to buyer.

RETL 295 - Retailing Practicum (1-6 Credits)
Supervised work experience in an area of the retail industry, selected by the student and approved by the instructor. May be repeated up to a maximum of 6 hours.
Prerequisites: RETL 265.

RETL 310 - Digital Retailing (3 Credits)
Development of a comprehensive plan for implementing a retailing business online via digital technology.
Prerequisites: RETL 265.

RETL 330 - Asset Protection for Retailers (3 Credits)
Examination of asset protection and risk management issues which affect the retailing industry, such as retail risk assessment and response, loss prevention, employee-related risks, facility security, crisis management, and intellectual property protection.
Prerequisites: RETL 265.

RETL 344 - Personnel Organization and Supervision (3 Credits)
Recruitment, selection, utilization, and development of human resources; role of supervisors in management and personnel administration.
Cross-listed course: HRTM 344

RETL 350 - Sales Strategies (3 Credits)
Theories, principles, and techniques of personal selling with application to different buyer-seller situations.

RETL 351 - Retail Entrepreneurship (3 Credits)
Essentials of creating and operating a new retail venture in physical and virtual environments.

RETL 362 - Principles of Customer Service (3 Credits)
Essential skills necessary to manage successful service operations, including retail, e-commerce, hospitality/tourism, food/beverage, and sports/event organizations.

RETL 365 - Visual Merchandising and Store Design (3 Credits)
Displays and visual merchandising strategies.

RETL 366 - Retail Buying (3 Credits)
Planning, purchasing, and controlling inventories.
Prerequisites: RETL 261.

RETL 368 - Fashion Product Analysis (3 Credits)
Analysis of fashion products with emphasis on textile selection, product construction, life cycle, cost elements, and the changing demographics of the fashion consumer.

RETL 369 - Retail Promotion (3 Credits)
Planning and executing retail promotion strategies.

RETL 371 - Advanced Retail Accounting (3 Credits)
Accounting topics related to retail establishment with emphasis on managerial interpretation and use.

RETL 385 - Global Sourcing in Retail and Fashion (3 Credits)
Exploration of theoretical, political, economic, social, and environmental implications of global sourcing decisions in retail and fashion.
Prerequisites: D or better in RETL 261 and RETL 265.

RETL 388 - Fashion Forecasting (3 Credits)
Forecasting fashion trends to impact retail merchandising performance.

RETL 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

RETL 425 - Customer Experience Management (3 Credits)
Study of customer trends and experience management.
Prerequisites: C or better in RETL 265.

RETL 460 - Retail Branding Strategies (3 Credits)
Overview of retail branding strategies with emphasis on implications of the development of brand equity towards increasing customer loyalty.

RETL 462 - Merchandise Management Strategies (3 Credits)
The knowledge of the principles of merchandising as applied in manufacturing and retailing business organization and understanding of the retail buyer's role in merchandise management including merchandise planning, negotiating, buying, pricing, assorting, and timing.
Prerequisites: RETL 366 and RETL 368.

RETL 472 - Category Management (3 Credits)
Application of category management principles and models to competitive behavior in retailing with a focus on product category issues.
Case-based analysis and/or JDA computer software will be applied to industry-specific problems related to inventory management.
Prerequisites: C or better in RETL 265.

RETL 485 - Multi-National Retailing (3 Credits)
Retail operations within foreign environments.

RETL 487 - Retail Management Strategies (3 Credits)
Application of strategic management principles and models to competitive behavior in retailing.
Prerequisites: RETL 366.

RETL 495 - Retailing Internship (6 Credits)
Supervised work experience within the retail industry that links classroom learning and student interest with the acquisition of knowledge in an applied work setting.
Prerequisites: RETL 295.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

RETL 525 - Legal Aspects of Entrepreneurship and E-Commerce (3 Credits)
Examination of domestic and international laws affecting retail entrepreneurship and online commerce, such as data privacy and breach response, intellectual property protection, sales tax, advertising and unfair trade practices, consumer protection laws, employment laws, and legal obligations involving physical locations.
Prerequisites: SPTE 240 or equivalent.
Retailing Minor

Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETL 265</td>
<td>Principles of Retailing</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>RETL 115</td>
<td>Fashion History: A Global View</td>
<td></td>
</tr>
<tr>
<td>RETL 116</td>
<td>Fashion Through the Ages: 1800 A.D. to Present</td>
<td></td>
</tr>
<tr>
<td>RETL 216</td>
<td>History of Designers</td>
<td></td>
</tr>
</tbody>
</table>

Required Course

- RETL 265 - Principles of Retailing (3 Credits)
- Select five of the following:
  - RETL 115 - Fashion History: A Global View (3 Credits)
  - RETL 116 - Fashion Through the Ages: 1800 A.D. to Present (3 Credits)
  - RETL 216 - History of Designers (3 Credits)

Total Credit Hours: 18

Retailing, B.S.

Mission

The mission of the Department of Retailing is to prepare graduates for careers in the Retailing industry and Retailing-related fields which offer upward mobility via management positions.

Learning Outcomes

- Students should be able to evaluate the role of retailing as an important element in the U.S. economy.
- Students should be able to evaluate a problem within a retail setting.
- Students should be able to assess the internship company's role of strategic planning in retailing.

Required GPA for Transfer Students

Transfer students must have a minimum average GPA of 2.25 to enroll in the Department of Retailing.

Course Grade Requirements

A Bachelor of Science Degree in Retailing consists of the Carolina Core, College of HRSM Required Courses, Major Coursework, Concentration Requirements, and Electives.

All courses listed under CMW, College Required Coursework, Major Coursework, and Concentration Requirements must be completed with a grade of C or better.

Admissions

Entrance Requirements

The College of Hospitality, Retail, and Sport Management has a pre-professional and a professional division of student classification. All new students will begin in the pre-professional division. Progression into the professional division requires the approval of the department and the successful completion of the requirements indicated under each departmental heading.

In addition to the academic admission requirements of the University and of the College of Hospitality, Retail, and Sport Management for admission to the pre-professional division, an enrollment limit into the professional division may be imposed by various departments. Such a limit would become necessary if enrollment levels exceed available department staffing and facility resources. In the event of an enrollment limit, admission to a department may take into account the applicant's grade point average and other factors which may include the applicant's potential for success in that major.

Freshmen Students

In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, freshmen applicants must meet all
University admission requirements through the Office of Undergraduate Admissions.

**Transfer Students**

In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, transfer applicants from outside of the USC system must meet all University admission requirements through the Office of Undergraduate Admissions and have at least a 2.25 GPA. The Sport and Entertainment Management major requires a higher GPA than the minimum University entrance standards. Transfer applicants for Sport and Entertainment must have a cumulative GPA of a 3.0 on all college-level work attempted.

**Students from other USC campuses** who wish to enter the College of Hospitality, Retail, and Sport Management must fulfill one of the following requirements:

1. Be in good standing, meet all University admission requirements through the Office of Undergraduate Admissions, and have the cumulative GPA required for the program (see below).
2. Be in good standing and have completed 30 semester hours with the cumulative GPA required for the program (see below).

**Required GPA for Change of Campus:**
- hospitality management - 2.25;
- integrated information technology - 2.25;
- interdisciplinary studies (2.0 and separate application required);
- retailing - 2.25;
- tourism management - 2.25; and
- sport and entertainment management - 3.0.

Students enrolled in other colleges on the Columbia campus must meet the following GPA requirements on all work taken:
- hospitality management - 2.25;
- integrated information technology - 2.25;
- interdisciplinary studies (2.0 and separate application required);
- retailing - 2.25;
- tourism management - 2.25; and
- sport and entertainment management - 3.0.

**Degree Requirements (120 hours)**

**Program of Study**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>21</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>2-14</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>54</td>
</tr>
</tbody>
</table>

**1. Carolina Core Requirements (31-43 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

**ARP – Analytical Reasoning and Problem Solving (6 hours)**

**Option 1**

- MATH 122
- Plus an additional CC-ARP course (p. 743) from one of the following:
  - Another MATH at a higher level
  - One STAT course
  - One CSCE course

**Option 2**

Choose 2 CC-ARP courses (p. 743) in the same field, except MATH, from either:

- STAT or
- CSCE

**SCI – Scientific Literacy (7 hours)**

Two approved CC-SCI courses (p. 743) from the natural sciences including one laboratory selected from Astronomy, Biology, Chemistry, Environmental Science, Geology, Marine Science or Physics

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

College of HRSM students must demonstrate proficiency in a foreign language by achieving a score of 2 or higher on the foreign language placement test or by completing one foreign language course through 110 or 121.

- CC-GFL courses (p. 743)

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

- any CC-GHS course (p. 743)

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- any CC-GSS course (p. 743)

**AIU – Aesthetic and Interpretive Understanding (3 hours)**

- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)**

- SPCH 140 or SPCH 230

**INF – Information Literacy 1 (0-3 hours)**

- any overlay or stand-alone CC-INF course (p. 743)

**VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)**

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

**2. College Requirements (21 hours)**

*Must be passed with a grade of C or higher*
### Retailing, B.S.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRSM 301</td>
<td>HRSM Professional Development Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HRSM 344</td>
<td>Personnel Organization and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>RETL 242</td>
<td>HRSM Professional Communications</td>
<td>3</td>
</tr>
<tr>
<td>RETL 261</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>RETL 262</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 240</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 274</td>
<td>Computer Applications in Hospitality, Retail, and Sport Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours**  

21

### 3. Program Requirements (2-14 hours)

#### Minor (18 hours) *optional*

Retailing majors may pursue a minor in any course of study offered by the College of HRSM or the University outside the Department of Retailing. College of HRSM required courses may not be counted toward a minor.

### Electives (2-14 hours)

The additional hours of electives may vary depending upon how students fulfill the Carolina Core requirements.

### 4. Major Requirements (54 hours)

*A minimum grade of C is required in all major courses*

Retailing majors must select a concentration in either Retail Management or Fashion Merchandising and Digital Innovations. The Department of Retailing does not offer a retailing major without a concentration.

#### Major Courses (33 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETL 201</td>
<td>Exploration of Retail Management and Fashion Merchandising Industries</td>
<td>3</td>
</tr>
<tr>
<td>RETL 265</td>
<td>Principles of Retailing</td>
<td>3</td>
</tr>
<tr>
<td>RETL 295</td>
<td>Retail Practicum</td>
<td>1-6</td>
</tr>
<tr>
<td>RETL 310</td>
<td>Digital Retailing</td>
<td>3</td>
</tr>
<tr>
<td>RETL 366</td>
<td>Retail Buying</td>
<td>3</td>
</tr>
<tr>
<td>RETL 369</td>
<td>Retail Promotion</td>
<td>3</td>
</tr>
<tr>
<td>RETL 425</td>
<td>Customer Experience Management</td>
<td>3</td>
</tr>
<tr>
<td>RETL 485</td>
<td>Multi-National Retailing</td>
<td>3</td>
</tr>
<tr>
<td>RETL 495</td>
<td>Retailing Internship ¹</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Credit Hours**  

28-33

¹ Restricted to retailing majors.

Students in RETL 495 may enroll in up to 7 additional credits for a total of 13 credit hours. Students will not be permitted to enroll in more than 13 total credit hours while completing RETL 495.

It is strongly recommended that students do not take additional courses while completing RETL 495.

Course is offered fall, spring and summer; summer is the preferred time for students to complete the course.

Students are responsible for securing their own internship and should contact the internship director for assistance and resources to identify and apply for opportunities of interest.

### Concentrations (21 hours)

Choose a concentration in either Fashion Merchandising and Digital Innovations or Retail Management.

#### Fashion Merchandising and Digital Innovations (21 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETL 268</td>
<td>Principles of Fashion Merchandising</td>
<td>3</td>
</tr>
<tr>
<td>RETL 365</td>
<td>Visual Merchandising and Store Design</td>
<td>3</td>
</tr>
<tr>
<td>RETL 368</td>
<td>Fashion Product Analysis</td>
<td>3</td>
</tr>
<tr>
<td>RETL 385</td>
<td>Global Sourcing in Retail and Fashion</td>
<td>3</td>
</tr>
<tr>
<td>RETL 462</td>
<td>Merchandise Management Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following:

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<tr>
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<tbody>
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<tr>
<td>RETL 116</td>
<td>Fashion Through the Ages: 1800 A.D. to Present</td>
<td></td>
</tr>
<tr>
<td>RETL 237</td>
<td>The Changing Consumer Marketplace</td>
<td></td>
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<tr>
<td>RETL 250</td>
<td>Sustainability in Fashion and Retail</td>
<td></td>
</tr>
<tr>
<td>RETL 330</td>
<td>Asset Protection for Retailers</td>
<td></td>
</tr>
<tr>
<td>RETL 350</td>
<td>Sales Strategies</td>
<td></td>
</tr>
<tr>
<td>RETL 351</td>
<td>Retail Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>RETL 362</td>
<td>Principles of Customer Service</td>
<td></td>
</tr>
<tr>
<td>RETL 388</td>
<td>Fashion Forecasting</td>
<td></td>
</tr>
<tr>
<td>RETL 460</td>
<td>Retail Branding Strategies</td>
<td></td>
</tr>
<tr>
<td>RETL 472</td>
<td>Category Management</td>
<td></td>
</tr>
<tr>
<td>RETL 487</td>
<td>Retail Management Strategies</td>
<td></td>
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<tr>
<td>RETL 530</td>
<td>Fashion and the Law</td>
<td></td>
</tr>
<tr>
<td>RETL 551</td>
<td>Retail and Fashion Business Planning</td>
<td></td>
</tr>
<tr>
<td>RETL 562</td>
<td>Advanced Merchandising Management Strategies</td>
<td></td>
</tr>
<tr>
<td>RETL 590</td>
<td>Special Topics in Retail Management</td>
<td></td>
</tr>
<tr>
<td>RETL 592</td>
<td>Retailing/Fashion Merchandising Field Study</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**  

21

#### Retail Management (21 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETL 330</td>
<td>Asset Protection for Retailers</td>
<td>3</td>
</tr>
<tr>
<td>RETL 350</td>
<td>Sales Strategies</td>
<td>3</td>
</tr>
<tr>
<td>RETL 351</td>
<td>Retail Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>RETL 362</td>
<td>Principles of Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>RETL 472</td>
<td>Category Management</td>
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</table>

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</tr>
<tr>
<td>RETL 590</td>
<td>Special Topics in Retail Management</td>
<td></td>
</tr>
</tbody>
</table>
Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

School of Hotel, Restaurant and Tourism Management

Department Website (https://www.sc.edu/study/colleges_schools/hrsm/study/areasofstudy/hrtm/)

The School of Hotel, Restaurant, and Tourism Management offers two bachelor degree programs: a Bachelor of Science degree with a major in Hospitality Management and a Bachelor of Science in Tourism Management.

Admissions Requirements

Admission for incoming freshmen to the School of Hotel, Restaurant and Tourism Management conforms to the admissions requirements for the University of South Carolina. Transfer applicants from regionally accredited colleges and universities are required to have a minimum grade point average of 2.25 (on a 4.00 scale) on all college-level courses attempted.

Programs

- Event Management Minor (p. 436)
- Hospitality Management, B.S. (p. 436)
- Hotel, Restaurant and Tourism Management Minor (p. 439)
- Tourism Management, B.S. (p. 439)

Courses

HRTM 110 - Introduction to Hospitality Industry (3 Credits)
History, growth, developments, and future opportunities in the hospitality industry.

HRTM 160 - Breads, Pastas and Sauces (1 Credit)
Hands-on training in the basic foundations of breads, pastas, and sauces. Basic bread types, pasta shapes, pasta sauces, food safety, and new techniques to create personalized dishes.

HRTM 161 - Breakfast (1 Credit)
Hands-on training in the basic foundations of meal preparation, simple breakfast staples, egg cookery, alternative breakfasts, basic food safety, and new techniques to create personalized dishes.

HRTM 162 - Cooking for Two (1 Credit)
Hands-on training in the basic foundations of cooking complete dinners for two people. Includes effective purchasing, appetizers, complete meals, proper table set-up, desserts, and special meal ideas.

HRTM 163 - Desserts (1 Credit)
Hands-on training in the basic foundations of meal preparation, staple dessert items, basic food safety, and new techniques to create personalized dishes.

HRTM 164 - Introduction to Healthy Mediterranean Cooking (1 Credit)
Basic elements of the traditional Mediterranean diet, cooking techniques, and how to cook and eat to stay fit and healthy.

HRTM 165 - Introduction to Cooking (1 Credit)
Hands-on training in the basic foundations of meal preparation, cooking basics, simple sauces, complete meals, staple dessert items, basic food safety, and new techniques to create personalized dishes.

HRTM 166 - Simply French (1 Credit)
Hands-on training in the basic foundations of meal preparation, French cooking basics, simple sauces, complete meals, staple dessert items, basic food safety, and new techniques to create personalized dishes.

HRTM 167 - Simply Italian (1 Credit)
Hands-on training in the basic foundations of classical Italian dishes, including sautéing, frying, and braising, basic food safety, and new techniques to create personalized dishes.

HRTM 168 - Tailgating 101 (1 Credit)
Hands-on training in the basic foundations of classic tailgating dishes, including grilling, frying, and braising, basic food safety, and new techniques to create personalized dishes.

HRTM 169 - ServSafe Sanitation (1 Credit)
Food safety and sanitation in a commercial kitchen operation.

HRTM 190 - Special Topics in Culinary Arts (1-3 Credits)
Special topics within the culinary discipline designed to give students a hands-on approach to learning special techniques, cooking styles and preparation, and practical application used in the foodservice industry. Content varies by title. May be repeated.

HRTM 228 - Purchasing and Controls (3 Credits)
A study of the major foods, beverages, and supplies that are purchased in hotels, motels, and food-service establishments as well as techniques on how to control their distribution within the operation.

HRTM 230 - Hospitality Management (3 Credits)
Tools available to management and their utilization in the hospitality industry.

HRTM 260 - Hotel Management (3 Credits)
Management of the lodging phase of the hospitality industry to include front desk, housekeeping, and maintenance areas.

HRTM 270 - Quantity Food Production (3 Credits)
The basics of food production from storeroom to consumer. Various techniques of storage, preparation, merchandising, and menu-planning, as well as the many aspects of service. One lecture and three laboratory hours per week.

HRTM 280 - Foundations of Tourism (3 Credits)
Basic introduction to the social science of tourism in the US and the world, including definitional issues, motivations for travel, factors influencing demand-side and supply-side growth, the tourism product, market segmentation and marketing, socioeconomic, and ecological impacts, and destination life cycle dynamics. May not be used to satisfy Carolina Core requirements for HRTM majors.

Carolina Core: GSS
HRTM 285 - Club Management (3 Credits)
Unique problems and issues associated with private club management.

HRTM 290 - Hospitality and Tourism Practicum (6 Credits)
Supervised full-time work experience in an area of the hospitality and tourism industry, selected by the student and approved by the practicum coordinator. 400 hours required.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

Experiential Learning: Experiential Learning Opportunity

HRTM 340 - Nutrition (3 Credits)
The utilization of food by the body; menu planning and food production for institutions in relation to regular and modified diets.

HRTM 344 - Personnel Organization and Supervision (3 Credits)
Recruitment, selection, utilization, and development of human resources; role of supervisors in management and personnel administration.

Cross-listed course: RELT 344

HRTM 352 - Software Applications for the Hospitality Industry (3 Credits)
Using microcomputer software in various areas of the hospitality industry.

Prerequisites: ITEC 264.

HRTM 355 - Physical Plant Design (3 Credits)
Design, equipment, and maintenance of hospitality facilities.

HRTM 357 - Hotel and Restaurant Law (3 Credits)
A comprehensive overview of laws and regulatory agencies governing the lodging and food services industries.

Prerequisites: ITEC 240.

HRTM 362 - Wedding Planning and Management (3 Credits)
Sociocultural, political, economic, religious, and legal influences on wedding planning and business strategies will be explored as background to practices relevant to successful wedding planning and consultancy for diverse clients.

HRTM 364 - Conference and Meeting Planning (3 Credits)
Planning and managing conferences and meetings in the tourism industry.

HRTM 370 - Restaurant Food Production Management (3 Credits)
Management techniques and operating problems in food service operations. One lecture and five laboratory hours per week.

Prerequisites: HRTM 270.

HRTM 372 - Catering Management (3 Credits)
Management techniques, including planning, production, and performance of off-premise catering.

Prerequisites: HRTM 270.

HRTM 375 - Wine, Beverage and Culture (3 Credits)
This course provides a broad base of knowledge, covering all commercially relevant beverages including origins, tradition and culture.

HRTM 376 - Contract Foodservice Management (3 Credits)
Issues related to the management of contract foodservice accounts.

HRTM 381 - Travel and Destination Management (3 Credits)
Describes role of travel agencies, tour operators, tour guides, transportation providers, and attractions as critical sectors within the travel industry.

Prerequisite or Corequisite: HRTM 280.

HRTM 382 - Travel and Tourism Law (3 Credits)
This course focuses on legal issues affecting the tourism industry, including international travel law, travel litigation, liability, and topics specific to travel agencies, carriers, attractions, and destinations.

HRTM 383 - Ecotourism (3 Credits)
Focuses on tourism that is nature-based and entails a learning component while being managed for environmental, economic, and sociocultural sustainability.

Prerequisite or Corequisite: HRTM 280.

HRTM 384 - Cultural and Heritage Tourism (3 Credits)
The effective presentation, development, management, and marketing of cultural and heritage tourist attractions, including battlefields, plantations, and pilgrimage sites.

Prerequisite or Corequisite: HRTM 280.

HRTM 386 - Tourism Festival Planning and Management (3 Credits)
Planning, marketing, sponsorship, budgeting, management, impacts, and evaluation of successful and sustainable special tourism festivals are discussed from both a theoretical and practical perspective.

Prerequisite or Corequisite: HRTM 280.

HRTM 387 - Cruise Ship Industry (3 Credits)
Organization, market segmentation, marketing, design, anatomy of experience, environmental and social impacts, health and safety, and trends within cruising.

Prerequisite or Corequisite: HRTM 280.

HRTM 388 - Resort Development and Management (3 Credits)
Examines effective practices in the sustainable planning, development, and management of resorts and spas, including host community relations, social effects, design, marketing, operations, finance, and recreation programming.

Prerequisite or Corequisite: HRTM 280.

HRTM 389 - International Tourism Field Experience (3 Credits)
An experiential field trip where students evaluate selected tourism issues and products in an international destination.

Prerequisite or Corequisite: HRTM 280.

HRTM 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

HRTM 410 - HRTM Current Issues (3 Credits)
Issues and problems concerning the hospitality industry.

HRTM 421 - Hospitality Financial Management (3 Credits)
Financial decision making including ratio analysis, asset management, leverage, short, intermediate, and long-term financing in the hospitality industry.

Prerequisites: RETL 262.

HRTM 428 - Sustainable Foodservice Systems (3 Credits)
Factors affecting the food supply in the United States and world. The class will explore the economic, political, legal, and societal forces affecting the distribution system of our food supply.

Prerequisites: HRTM 228.

HRTM 440 - Services Management for Hospitality and Tourism (3 Credits)
Management issues pertinent to quality service delivery in hospitality and tourism organizations.
HRTM 450 - Hospitality and Tourism Marketing (3 Credits)
Application of marketing principles and promotional techniques to the hospitality and travel industry.

HRTM 455 - Hospitality Sales Management (3 Credits)
Basic sales management policies and procedures within the hospitality industry with emphasis on sales planning, preparation, presentations and client contact within hospitality organizations.
Prerequisite or Corequisite: HRTM 260.

HRTM 470 - Current Issues in Nutrition (3 Credits)
Basic nutrition concepts as a foundation to address nutrition, health trends, concerns, and current nutritional issues in the modern world.
Prerequisites: HRTM 270, HRTM 285.

HRTM 473 - Club Cuisine and Service (3 Credits)
Advanced topics in the management of production and service techniques for private clubs.
Prerequisites: HRTM 270, HRTM 285.

HRTM 475 - Wines and Spirits in Food Service Establishments (3 Credits)
Management overview and operating problems of beverages in the hospitality industry.

HRTM 476 - Craft Beer (3 Credits)
Study of craft beer through exploration of current trends, countries of origin, beer styles, flavor profiles, food flavor pairings and best business practices. Students must be 21 years old.

HRTM 481 - Analytical Techniques in Tourism and Hospitality (3 Credits)
Examination and application of analytical and research methods to tourism and hospitality problems.
Prerequisites: STAT 201 or equivalent.

Graduation with Leadership Distinction: GLD: Research

HRTM 482 - Sustainable Tourism Planning and Policy (3 Credits)
Principles and practice of tourism planning fostering sustainable tourism development at international, national, state, regional, local and site levels.

HRTM 483 - Tourism Economics (3 Credits)
Macro- and microeconomic dimensions of tourism are considered in relation to the demand and supply of tourism products at the national, state, regional, and local levels.
Prerequisites: ECON 224.

HRTM 484 - Tourism Information Technology Issues (3 Credits)
Information technologies such as e-commerce, e-marketing, and e-research are examined, critiqued, and applied within a tourism context.
Prerequisites: ITEC 264.

HRTM 485 - Sustainable Tourism (3 Credits)
Principles and practices of environmental, economic, and sociocultural sustainability in tourism are described and analyzed.

HRTM 490 - Hospitality Management Strategies (3 Credits)
Contemporary management strategies applied to the hospitality industry.
Prerequisites: MGMT 371.

HRTM 495 - Hospitality and Tourism Internship (6 Credits)
Structured industry practical experience in a hospitality or tourism company. 400 hours required.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

Experiential Learning: Experiential Learning Opportunity

HRTM 518 - Hospitality Human Capital and Talent Management (3 Credits)
Effective methods for conducting, costing, and evaluating training and development procedures for hospitality supervisors and managers.

HRTM 521 - Revenue Management in the Hospitality Industry (3 Credits)
Examination of revenue management in the hospitality industry with an emphasis on the theory and dynamics of revenue management, the implementation of capacity management, forecasting and discounting.
Prerequisites: HRTM 450.

Corequisite: HRTM 421.

HRTM 537 - Multi-Cultural Dimensions of the Hospitality Industry (3 Credits)
Multicultural, multiracial, and multiethnic factors within the hospitality and tourism industry.
Prerequisites: MGMT 371 or RETL 344.

HRTM 550 - Theme Park and Attractions Management (3 Credits)
This course will give students an overview of the theme park and attractions industry. We will explore each of the areas of this industry including: history, venues, resources, ride operations, merchandising, food service and design.

HRTM 557 - Security Management of Hotels and Restaurants (3 Credits)
Individualized security programs, procedures, legal issues, and review of local, state, and federal laws that apply to the lodging and restaurant industry.
Prerequisites: HRTM 357 or equivalent.

HRTM 560 - Advanced Lodging Management (3 Credits)
Advanced principles of the management of hotels and resorts.
Prerequisites: HRTM 260.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

Experiential Learning: Experiential Learning Opportunity

HRTM 564 - Advanced Meeting Management (3 Credits)
Analysis of current issues and problems in the meetings industry with emphasis on planning, organizing, managing, and enhancing meetings.
Prerequisites: HRTM 364.

HRTM 565 - International Lodging Management (3 Credits)
Analysis of the structure of international lodging companies, challenges of marketing U.S. lodging companies abroad, and cultural differences in international management.
Prerequisites: HRTM 260.

HRTM 567 - Timeshare and Vacation Ownership Management (3 Credits)
Management of the timeshare and vacation ownership industry.
Event Management Minor

Minor Requirements (18 Hours)

Students must take any prerequisites associated with the electives they choose, which may require additional hours. Courses required in a student's major may not be used to fulfill these minor requirements.

Course | Focus Area | Title | Credits
---|---|---|---
Select two of the following: | | | 6
HRTM 364 | Event Management Minor | Conference and Meeting Planning | 3
RETL 362 | Event Management Minor | Principles of Customer Service | 3
SPTE 203 | Event Management Minor | Introduction to Event and Venue Management | 3

Specialty Area

Select one of the following: | | | 3
HRTM 280 | Event Management Minor | Foundations of Tourism | 3
RETL 265 | Event Management Minor | Principles of Retailing | 3
SPTE 201 | Event Management Minor | Introduction to Sport Management | 3
SPTE 202 | Event Management Minor | Introduction to Live Entertainment Management | 3

Capstone Course 1

HRSM 491 | Event Management Minor | Event Production, Evaluation, and Analysis | 3

Electives

Select two of the following: | | | 6
HRTM 362 | Event Management Minor | Wedding Planning and Management | 3
HRTM 386 | Event Management Minor | Tourism Festival Planning and Management (Prerequisite: HRTM 280) | 3
HRTM 564 | Event Management Minor | Advanced Meeting Management (Prerequisite: HRTM 364) | 3
RETL 310 | Event Management Minor | Digital Retailing (Prerequisite: RETL 265) | 3
SPTE 342 | Event Management Minor | Sport and Entertainment Contracts and Negotiations (Prerequisite: SPTE 240) | 3
SPTE 376 | Event Management Minor | Risk Management in Sport and Entertainment (Prerequisite: SPTE 240) | 3
SPTE 435 | Event Management Minor | Spectator Facilities Management | 3
SPTE 444 | Event Management Minor | Sports and Entertainment Event Management (Prerequisite: SPTE 380 & SPTE 440) | 3
SPTE 545 | Event Management Minor | Managing Part-Time Employees and Volunteers | 3

Total Credit Hours | 18

1 The capstone course should be taken after completion of at least 12 hours in the minor.

Hospitality Management, B.S.

The Bachelor of Science with a major in Hospitality Management is designed to prepare students for managerial and leadership roles in the hospitality industry, including hotels, resorts, restaurants, events and weddings, and private clubs.

The mission of the School of Hotel, Restaurant, and Tourism Management (HRTM) is to educate global leaders for the hospitality and tourism industry through innovative and experiential curriculum, research, and community engagement.

The program provides a comprehensive curriculum that includes courses in general education, business, and hospitality and tourism management,
combined with relevant operational management experience under the guidance of supervision of industry professionals and program faculty.

The School of Hotel, Restaurant and Tourism Management prepares students for responsible citizenship roles in business and society. It enables them to understand and apply the concepts of problem-solving in general, and in organizational and industry-related issues.

The HRTM faculty provide uncompromising individualized attention to meeting the educational needs of our students and assume very active, and influential roles in numerous professional organizations, at all levels.

**Learning Outcomes**

- Students should be able to apply strategic management principles to identify hospitality industry problems and utilize analytical reasoning to formulate solutions.
- Students should be able to interpret, evaluate and explain general and industry-specific financial documents and trends.
- Students should be able to examine and apply current marketing techniques and principles related to the uniqueness of our industry.
- Students should be able to demonstrate effective management practices in an operational food and beverage environment.
- Students should be able to apply effective human resource strategies, inclusive of hiring, training and performance evaluations to service organizations’ cultures.
- Students should be able to evaluate service management strategies used to differentiate hospitality organizations.

**Progression Requirements**

In order to enroll in the Professional Division of the Hospitality Management program, a student must complete 48 credit hours in the courses indicated as Pre-Professional Division with a minimum grade point average of 2.25. Pre-Professional Division courses include the following:

- Carolina Core Courses within the CMW, ARP, and CMS areas
- Pre-Professional College Required Courses
- Pre-Professional Related Area Courses
- Pre-Professional Major Courses

**Admissions**

**Entrance Requirements**

The College of Hospitality, Retail, and Sport Management has a pre-professional and a professional division of student classification. All new students will begin in the pre-professional division. Progression into the professional division requires the approval of the department and the successful completion of the requirements indicated under each departmental heading.

In addition to the academic admission requirements of the University and of the College of Hospitality, Retail, and Sport Management for admission to the pre-professional division, an enrollment limit into the professional division may be imposed by various departments. Such a limit would become necessary if enrollment levels exceed available department staffing and facility resources. In the event of an enrollment limit, admission to a department may take into account the applicant’s grade point average and other factors which may include the applicant’s potential for success in that major.

**Freshmen Students**

In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, freshmen applicants must meet all University admission requirements through the Office of Undergraduate Admissions.

**Transfer Students**

In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, transfer applicants from outside of the USC system must meet all University admission requirements through the Office of Undergraduate Admissions and have at least a 2.25 GPA. The Sport and Entertainment Management major requires a higher GPA than the minimum University entrance standards. Transfer applicants for Sport and Entertainment must have a cumulative GPA of a 3.0 on all college-level work attempted.

**Students from other USC campuses** who wish to enter the College of Hospitality, Retail, and Sport Management must fulfill one of the following requirements:

1. Be in good standing, meet all University admission requirements through the Office of Undergraduate Admissions, and have the cumulative GPA required for the program (see below).
2. Be in good standing and have completed 30 semester hours with the cumulative GPA required for the program (see below).

**Required GPA for Change of Campus:** hospitality management - 2.25; integrated information technology - 2.25; interdisciplinary studies (2.0 and separate application required); retailing - 2.25; tourism management - 2.25; and sport and entertainment management - 3.0.

**Students enrolled in other colleges on the Columbia campus** must meet the following GPA requirements on all work taken: hospitality management - 2.25; integrated information technology - 2.25; interdisciplinary studies (2.0 and separate application required); retailing - 2.25; tourism management - 2.25; and sport and entertainment management - 3.0.

**Degree Requirements (120 hours)**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>21</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>6-17</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>51</td>
</tr>
</tbody>
</table>

**1. Carolina Core Requirements (31-43 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

**ARP – Analytical Reasoning and Problem Solving (6-8 hours)**

**Option 1**

- MATH 122 or MATH 141
- Plus an additional course from one of the following:
Hospitality Management, B.S.

- Mathematics (at the next higher level)
- Computer Science
- Statistics
- PHIL 114
- PHIL 111

**Option 2**
Choose 1 from the following:

- Two courses from Computer Science
- Two courses from Statistics
- PHIL 111 & PHIL 114

**SCI — Scientific Literacy (7 hours)**
- Two approved CC-SCI courses (p. 743) from the natural sciences including one laboratory selected from Astronomy, Biology, Chemistry, Environmental Science, Geology, Marine Science or Physics

**GFL — Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**
College of HRSM students must demonstrate proficiency in a foreign language by achieving a score of 2 or higher on the foreign language placement test or by completing one foreign language course through 110 or 121.

- CC-GFL courses (p. 743)

**GHS — Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**
- any CC-GHS course (p. 743)

**GSS — Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**
- any CC-GSS course (p. 743)

**AIU — Aesthetic and Interpretive Understanding (3 hours)**
- any CC-AIU course (p. 743)

**CMS — Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)**
- SPCH 140 or SPCH 230

**INF — Information Literacy 1 (0-3 hours)**
- any overlay or stand-alone CC-INF course (p. 743)

**VSR — Values, Ethics, and Social Responsibility 1 (0-3 hours)**
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (21 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRSM 301</td>
<td>HRSM Professional Development Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 344</td>
<td>Personnel Organization and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>RETL 242</td>
<td>HRSM Professional Communications</td>
<td>3</td>
</tr>
<tr>
<td>RETL 261</td>
<td>Principles of Accounting I (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>RETL 262</td>
<td>Principles of Accounting II (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 240</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 274</td>
<td>Computer Applications in Hospitality, Retail, and Sport Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 21

3. Program Requirements (6-17 hours)

**Supporting Courses (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 6

**Minor (18 hours) optional**
Minors are optional for Hospitality Management majors and may be in any course of study offered by the College of HRSM as well as any other University program with an approved minor. College of HRSM required courses may not be counted toward a minor.

**Electives (0-11 hours)**
The number of approved electives needed for the Hospitality Management Major Curriculum depends upon how students fulfill the Carolina Core Requirements and the optional selection of a minor. Any course in the University can be used to satisfy the elective requirement, including additional electives in the major field area.

4. Major Requirements (51 hours)

* A minimum grade of C is required in all major courses

**Major Courses (39 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 110</td>
<td>Introduction to Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 260</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 270</td>
<td>Quantity Food Production</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 280</td>
<td>Foundations of Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 285</td>
<td>Club Management</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 290</td>
<td>Hospitality and Tourism Practicum</td>
<td>6</td>
</tr>
<tr>
<td>HRTM 370</td>
<td>Restaurant Food Production Management</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 421</td>
<td>Hospitality Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 450</td>
<td>Hospitality and Tourism Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 490</td>
<td>Hospitality Management Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 495</td>
<td>Hospitality and Tourism Internship (must be completed in a club setting for the Club Management Concentration)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 39
Major Electives (12 hours)
Chosen in consultation with an advisor; at least 6 hours must be from HRTM.

Club Management Concentration (6 hours) optional
Students may obtain a Club Management Concentration by completing HRTM 495 in a club setting. The following Club Management courses count toward the 12 hours of Major Electives.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 473</td>
<td>Club Cuisine and Service</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 585</td>
<td>Advanced Club Management</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Hospitality Management, BS
No Concentration

Hospitality Management, BS
Club Management Concentration

Hotel, Restaurant and Tourism Management Minor

Minor Requirements

Select six of the following: ¹

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 110</td>
<td>Introduction to Hospitality Industry</td>
<td>2</td>
</tr>
<tr>
<td>HRTM 228</td>
<td>Purchasing and Controls</td>
<td></td>
</tr>
<tr>
<td>HRTM 230</td>
<td>Hospitality Management</td>
<td></td>
</tr>
<tr>
<td>HRTM 260</td>
<td>Hotel Management</td>
<td></td>
</tr>
<tr>
<td>HRTM 280</td>
<td>Foundations of Tourism</td>
<td></td>
</tr>
<tr>
<td>HRTM 285</td>
<td>Club Management</td>
<td></td>
</tr>
<tr>
<td>HRTM 340</td>
<td>Nutrition</td>
<td></td>
</tr>
<tr>
<td>HRTM 357</td>
<td>Hotel and Restaurant Law</td>
<td></td>
</tr>
<tr>
<td>HRTM 362</td>
<td>Wedding Planning and Management</td>
<td></td>
</tr>
<tr>
<td>HRTM 364</td>
<td>Conference and Meeting Planning</td>
<td></td>
</tr>
<tr>
<td>HRTM 376</td>
<td>Contract Foodservice Management</td>
<td></td>
</tr>
<tr>
<td>HRTM 381</td>
<td>Travel and Destination Management</td>
<td></td>
</tr>
<tr>
<td>HRTM 382</td>
<td>Travel and Tourism Law</td>
<td></td>
</tr>
<tr>
<td>HRTM 383</td>
<td>Ecotourism</td>
<td></td>
</tr>
<tr>
<td>HRTM 384</td>
<td>Cultural and Heritage Tourism</td>
<td></td>
</tr>
<tr>
<td>HRTM 386</td>
<td>Tourism Festival Planning and Management</td>
<td></td>
</tr>
<tr>
<td>HRTM 387</td>
<td>Cruise Ship Industry</td>
<td></td>
</tr>
<tr>
<td>HRTM 388</td>
<td>Resort Development and Management</td>
<td></td>
</tr>
<tr>
<td>HRTM 410</td>
<td>HRTM Current Issues</td>
<td></td>
</tr>
<tr>
<td>HRTM 440</td>
<td>Services Management for Hospitality and Tourism</td>
<td></td>
</tr>
<tr>
<td>HRTM 475</td>
<td>Wines and Spirits in Food Service Establishments</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

¹ Courses toward minor or cognate to be selected from the list below in conjunction with major advisor.
² Recommendation: Take this class first; it will help in the balanced selection of other minor courses.

Tourism Management, B.S.
The Bachelor of Science in Tourism Management degree is designed to prepare students for managerial and leadership roles in the tourism industry, including convention centers, tourism events, festivals, conferences, destination management organizations, and the travel industry. The mission of the School of Hotel, Restaurant, and Tourism Management (HRTM) is to educate global leaders for the hospitality and tourism industry through innovative and experiential curriculum, research, and community engagement.

The program provides a comprehensive curriculum that includes courses in general education, business, and tourism and hospitality management, combined with relevant operational management experience under the guidance and supervision of industry professionals, and program faculty.

The School of Hotel, Restaurant and Tourism Management prepares students for responsible citizenship roles in business and society. It enables them to understand and apply the concepts of problem-solving in general, and in organizational and industry-related issues.

The HRTM faculty provide uncompromising individualized attention to meeting the educational needs of our students and assume very active, and influential roles in numerous professional organizations, at all levels.

Learning Outcomes
- Students should be able to apply business management principles to identify problems and utilize analytical reasoning to formulate local-to-global solutions.
- Students should be able to identify, evaluate and explain tourism impacts on the host community and global environment.
• Students should be able to examine and apply tourism policy and planning principles to match the needs of diverse stakeholders, destinations and environments.
• Students should be able to demonstrate an understanding of the concepts and characteristics of tourism as an academic area of study.
• Students should be able to understand the products, processes, structure(s) and interactions in the tourism system.

Admissions

Entrance Requirements
The College of Hospitality, Retail, and Sport Management has a pre-professional and a professional division of student classification. All new students will begin in the pre-professional division. Progression into the professional division requires the approval of the department and the successful completion of the requirements indicated under each departmental heading.

In addition to the academic admission requirements of the University and of the College of Hospitality, Retail, and Sport Management for admission to the pre-professional division, an enrollment limit into the professional division may be imposed by various departments. Such a limit would become necessary if enrollment levels exceed available department staffing and facility resources. In the event of an enrollment limit, admission to a department may take into account the applicant’s grade point average and other factors which may include the applicant’s potential for success in that major.

Freshmen Students
In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, freshmen applicants must meet all University admission requirements through the Office of Undergraduate Admissions.

Transfer Students
In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, transfer applicants from outside of the USC system must meet all University admission requirements through the Office of Undergraduate Admissions and have at least a 2.25 GPA. The Sport and Entertainment Management major requires a higher GPA than the minimum University entrance standards. Transfer applicants for Sport and Entertainment must have a cumulative GPA of a 3.0 on all college-level work attempted.

Students from other USC campuses who wish to enter the College of Hospitality, Retail, and Sport Management must fulfill one of the following requirements:
1. Be in good standing, meet all University admission requirements through the Office of Undergraduate Admissions, and have the cumulative GPA required for the program (see below).
2. Be in good standing and have completed 30 semester hours with the cumulative GPA required for the program (see below).

Required GPA for Change of Campus: hospitality management - 2.25; integrated information technology - 2.25; interdisciplinary studies (2.0 and separate application required); retailing - 2.25; tourism management - 2.25; and sport and entertainment management - 3.0.

Students enrolled in other colleges on the Columbia campus must meet the following GPA requirements on all work taken: hospitality management - 2.25; integrated information technology - 2.25; interdisciplinary studies (2.0 and separate application required); retailing - 2.25; tourism management - 2.25; and sport and entertainment management - 3.0.

Degree Requirements (120 hours)

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
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</tr>
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<tbody>
<tr>
<td>1. Carolina Core</td>
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<tr>
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<tr>
<td>3. Program Requirements</td>
<td>8-20</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>48</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-43 hours)
CMW – Effective, Engaged, and Persuasive
Communication: Written (6 hours)
* must be passed with a grade of C or higher
  • ENGL 101
  • ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-8 hours)
  • STAT 110 or MATH 122
  • STAT 201

SCI – Scientific Literacy (7 hours)
  • Two CC-SCI courses (p. 743) from the natural sciences, including one laboratory selected from Astronomy, Biology, Chemistry, Environmental Science, Geology, Marine Science or Physics

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
College of HRSM students must demonstrate proficiency in a foreign language by achieving a score of 2 or higher on the foreign language placement test or by completing one foreign language course through 110 or 121.
  • CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
  • any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
  • any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
  • any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
  • SPCH 140 or SPCH 230
INF – Information Literacy ¹ (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
• any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (21 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRSM 301</td>
<td>HRSM Professional Development Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 344</td>
<td>Personnel Organization and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>RETL 242</td>
<td>HRSM Professional Communications</td>
<td>3</td>
</tr>
<tr>
<td>RETL 261</td>
<td>Principles of Accounting I (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>RETL 262</td>
<td>Principles of Accounting II (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 240</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 274</td>
<td>Computer Applications in Hospitality, Retail, and Sport Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 21

3. Program Requirements (8-20 hours)

Supporting Courses (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Minor (0-18 hours) optional
• Tourism Management majors may pursue a minor in any course of study offered by the College of HRSM as well as any other University program with an approved minor. College of HRSM required courses may not be counted toward a minor.

Electives (2-14 hours)
• The Tourism Major Curriculum includes 2 to 14 hours of approved electives depending on how students fulfill the Carolina Core Requirements. Any course in the university can be used to satisfy the elective requirement including additional electives in the major.

4. Major Requirements (48 hours)
a minimum grade of C is required in all major courses

Major Courses (39 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 110</td>
<td>Introduction to Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 280</td>
<td>Foundations of Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 290</td>
<td>Hospitality and Tourism Practicum</td>
<td>6</td>
</tr>
<tr>
<td>HRTM 364</td>
<td>Conference and Meeting Planning</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 381</td>
<td>Travel and Destination Management</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 388</td>
<td>Resort Development and Management</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 450</td>
<td>Hospitality and Tourism Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 481</td>
<td>Analytical Techniques in Tourism and Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 482</td>
<td>Sustainable Tourism Planning and Policy</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 584</td>
<td>Tourism Information Technology Issues</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 495</td>
<td>Hospitality and Tourism Internship</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credit Hours 39

Major Electives (9 hours)
• Chosen in consultation with advisor; at least 6 hours must be from HRTM courses.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Tourism Management, B.S.

Department Website (https://sc.edu/study/colleges_schools/hrsm/study/areasofstudy/spte/)

Matthew T. Brown, Chair

The College of Hospitality, Retail, and Sport Management offers a bachelor of science degree program with a major in sport and entertainment management.

Entrance Requirements
In addition to the entrance requirements of the College of Hospitality, Retail, and Sport Management, the Department of Sport and Entertainment Management has the following requirements:

Students from other USC campuses, students enrolled in other colleges on the Columbia campus, students enrolled in other departments in the college, and transfer students from other institutions must have a GPA of 3.00 on all college work taken.

Programs
• Sport and Entertainment Management Minor (p. 444)
• Sport and Entertainment Management, B.S. (p. 444)

Courses

SPTE 101 - The Student-Athlete Experience (3 Credits)
Examination of the functions and resources the university provides for students transitioning to college and the problems common to the first-year student-athlete experience.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 110</td>
<td>Sport and Entertainment in American Life</td>
<td>3</td>
<td></td>
<td>The American sport and entertainment enterprise: background, influences, and trends; collegiate and professional sport organizations; ownership and unionization; media portrayals.</td>
</tr>
<tr>
<td>SPTE 195</td>
<td>Sport and Entertainment Careers</td>
<td>0</td>
<td></td>
<td>Introduction of networking, interviewing, and career planning in the sport and entertainment industry.</td>
</tr>
<tr>
<td>SPTE 201</td>
<td>Introduction to Sport Management</td>
<td>3</td>
<td></td>
<td>Introduction to sport management industry career fields.</td>
</tr>
<tr>
<td>SPTE 202</td>
<td>Introduction to Live Entertainment Management</td>
<td>3</td>
<td></td>
<td>The study of underlying themes in entertainment management and its application to music, family shows, and other live entertainment business venues.</td>
</tr>
<tr>
<td>SPTE 203</td>
<td>Introduction to Event and Venue Management</td>
<td>3</td>
<td></td>
<td>An overview of the history, impact, types, and trends of events and venues, the principles of event planning, the role of venues, and career options in each field.</td>
</tr>
<tr>
<td>SPTE 240</td>
<td>Business Law</td>
<td>3</td>
<td></td>
<td>Formation of contracts and their operation as they apply to business; promissory notes and checks; agency and employment.</td>
</tr>
<tr>
<td>SPTE 274</td>
<td>Computer Applications in Hospitality, Retail, and Sport Management</td>
<td>3</td>
<td></td>
<td>Administrative tasks for computer usage, including software and hardware selection, applications, and solutions.</td>
</tr>
<tr>
<td>SPTE 295</td>
<td>Practicum</td>
<td>6</td>
<td></td>
<td>Supervised work experience in a sport or entertainment management area selected by the student with approval of advisor. Contract approved by advisor or department chair is required for undergraduate students.</td>
</tr>
<tr>
<td>SPTE 302</td>
<td>Artist Representation and Management</td>
<td>3</td>
<td></td>
<td>This course focuses on the role of the manager in the entertainment industry and his or her relationships with artists, agents, buyers and industry executives.</td>
</tr>
<tr>
<td>SPTE 303</td>
<td>Live Entertainment Tour Management</td>
<td>3</td>
<td></td>
<td>This course puts a fine point on performance tour management logistics, including booking, scheduling, shipping, budgeting, movement of equipment, and artist management challenges, including entertainment production.</td>
</tr>
<tr>
<td>SPTE 305</td>
<td>The Business of NASCAR</td>
<td>3</td>
<td></td>
<td>The course is designed to present an overall view of the NASCAR industry through a series of guest speakers, who are subject matter experts in their respective NASCAR-related fields.</td>
</tr>
<tr>
<td>SPTE 310</td>
<td>Collegiate Athletics</td>
<td>3</td>
<td></td>
<td>Students are provided with an overview of college athletics. Though the course will cover the NJCAA and NAIA, it will particularly focus upon the NCAA, and more specifically, upon the business of “Big-Time” intercollegiate athletics.</td>
</tr>
<tr>
<td>SPTE 315</td>
<td>NCAA Compliance</td>
<td>3</td>
<td></td>
<td>Students will gain a basic understanding of NCAA Division I rules and regulations while learning how the rules are applied to member institution. An overview of the operations of an NCAA Division I compliance office and coaching regulations will be provided as well.</td>
</tr>
<tr>
<td>SPTE 320</td>
<td>Sport and the Law</td>
<td>3</td>
<td></td>
<td>Laws and regulatory bodies affecting the management of sport personnel, facilities, and events.</td>
</tr>
<tr>
<td>SPTE 325</td>
<td>Resort and Club Recreation Programming</td>
<td>3</td>
<td></td>
<td>Management of club and resort sport complexes.</td>
</tr>
<tr>
<td>SPTE 330</td>
<td>The Summer Olympic Games</td>
<td>3</td>
<td></td>
<td>Examination of the Summer Olympic Games and its impact on sport, entertainment, hospitality, tourism and the host community.</td>
</tr>
<tr>
<td>SPTE 335</td>
<td>The Business of Baseball</td>
<td>3</td>
<td></td>
<td>Overall view of the sport of baseball from a business perspective.</td>
</tr>
<tr>
<td>SPTE 340</td>
<td>The Sporting Goods Industry</td>
<td>3</td>
<td></td>
<td>Principles of manufacturing and retailing applied to the sporting goods industry.</td>
</tr>
<tr>
<td>SPTE 342</td>
<td>Sport and Entertainment Contracts and Negotiations</td>
<td>3</td>
<td></td>
<td>The formation and negotiation of contracts in Sport and Entertainment Management.</td>
</tr>
<tr>
<td>SPTE 348</td>
<td>Sport and Entertainment Marketing</td>
<td>3</td>
<td></td>
<td>Marketing theory and practice and how it relates and applies to sport and entertainment.</td>
</tr>
<tr>
<td>SPTE 350</td>
<td>Ethics in Sport and Entertainment Business</td>
<td>3</td>
<td></td>
<td>The objective of this course is to familiarize students with the ethical issues that exist in the business of sport and entertainment. Students will learn theories of ethics and how they relate to issues faced by managers in the sport and entertainment industry. Ethical theories and philosophies – deontology, utilitarianism, and virtue - will be driving the discussions and understandings of ethical decision-making in this class.</td>
</tr>
<tr>
<td>SPTE 376</td>
<td>Risk Management in Sport and Entertainment</td>
<td>3</td>
<td></td>
<td>Theoretical and practical approaches to managing risk in Sport and Entertainment venues and events.</td>
</tr>
<tr>
<td>SPTE 380</td>
<td>Sport and Entertainment Marketing</td>
<td>3</td>
<td></td>
<td>Marketing theory and practice and how it relates and applies to sport and entertainment.</td>
</tr>
<tr>
<td>SPTE 385</td>
<td>Ethics in Sport and Entertainment Business</td>
<td>3</td>
<td></td>
<td>The objective of this course is to familiarize students with the ethical issues that exist in the business of sport and entertainment. Students will learn theories of ethics and how they relate to issues faced by managers in the sport and entertainment industry. Ethical theories and philosophies – deontology, utilitarianism, and virtue - will be driving the discussions and understandings of ethical decision-making in this class.</td>
</tr>
<tr>
<td>SPTE 399</td>
<td>Independent Study</td>
<td>1-6</td>
<td></td>
<td>Students will have an opportunity to explore a specific area of sport and entertainment management. Individual students will indentify an area of study related to sport and entertainment management and complete a research paper on this topic under the guidance of the instructor.</td>
</tr>
<tr>
<td>SPTE 402</td>
<td>Entertainment and the Law</td>
<td>3</td>
<td></td>
<td>Performing arts and entertainment industries’ social, economic, and legal issues, in addition to the development and role of entertainment in society, will be analyzed—from its roots to the present.</td>
</tr>
</tbody>
</table>
SPTE 404 - Promoting Entertainment Events (3 Credits)
This course should provide students with an understanding of various methods of promotion and approaches to the application of advertising and publicity in the broad spectrum of modern media.
Prerequisites: SPTE 202 and MKTG 350.

SPTE 410 - Sport and Entertainment in Popular Culture (3 Credits)
Investigation of sport and entertainment as critical facets of American society.

SPTE 415 - Sport in Film (3 Credits)
This class invites students to consider a variety of classic and contemporary, international and domestic sports films featuring heroes and villains from baseball, basketball, boxing, football, soccer and other sports stages. Students will develop a rhetorical analysis of socially significant sport films after exposure to numerous critical perspectives.

SPTE 430 - Sport and Entertainment Services Marketing (3 Credits)
Basic principles required to promote a service marketing strategy in sport and entertainment.
Prerequisites: MKTG 350.

SPTE 435 - Spectator Facilities Management (3 Credits)
Programming, marketing, public relations, fiscal considerations, operation, labor relations, personnel, and event management for spectator sports and entertainment events.

SPTE 440 - Sport and Entertainment Business and Finance (3 Credits)
Economic and finance theories applied to the management of sport and entertainment organizations.
Prerequisites: FINA 363 or FINA 333.

SPTE 444 - Sports and Entertainment Event Management (3 Credits)
Application of management principles to sports and entertainment events.
Prerequisites: SPTE 380, SPTE 440.

SPTE 450 - Sales in Sport and Entertainment Business (3 Credits)
Students will be provided with an overview of the sales process and learn how the sales process applies to sport and entertainment while using hands on exercises to perpetuate the understanding of the importance of sales.
Prerequisites: MKTG 350.

SPTE 490 - Special Topics in Sport and Entertainment Management (3 Credits)
Current topics and trends in sport, live entertainment, and venue management. Content varies by title. May be repeated once.

SPTE 495 - Internship in Sport and Entertainment Management (6 Credits)
Placement with a sport or entertainment organization for a supervised learning experience in the student's career specialization area.
Prerequisites: SPTE 440 and 444; 114 credit hours.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

SPTE 498 - Research Experience (3 Credits)
Working with a faculty mentor, students develop a research project and related research skills.
Graduation with Leadership Distinction: GLD: Research

SPTE 499 - Senior Thesis (3 Credits)
A senior thesis related to one of the advanced courses in the major program.
Prerequisites: minimum GPA of 3.50 in major courses, 3.30 overall.

Graduation with Leadership Distinction: GLD: Research

SPTE 501 - Trends and Issues in Sport and Entertainment Management (3 Credits)
Trends and Issues in Sport and Entertainment Management.

SPTE 545 - Managing Part-Time Employees and Volunteers (3 Credits)
Recruiting, hiring, training, and retaining part-time employees and volunteers in sport and entertainment.

SPTE 550 - The Business of Esports (3 Credits)
This course is designed to provide students with an overview of the business of esports. It will focus on the history of video games from creation to the present and will also cover the various business elements of the modern, competitive esports environment.

SPTE 560 - Performing Arts Management and Leadership (3 Credits)
The study of performing arts management as it relates to nonprofits and organizational structure.
Prerequisites: C or better in SPTE 202 and SPTE 380.

SPTE 565 - Business of Broadway (3 Credits)
The study of the management of Broadway productions from script to play, including the creative process, business ventures, production houses, and investor relations.
Prerequisites: SPTE 202 and SPTE 380; C or higher for SPTE majors.

SPTE 570 - Special Topics in Global Sport (3 Credits)
This course examines a variety of global sport and entertainment management issues. The emphasis will be on an understanding of the concepts related to the sport and entertainment management in an international setting. Content varies by title. May be repeated once.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPTE 580 - Business Principles in Sport Management. (3 Credits)
Business principles in the management of public and private sector sport programs.

SPTE 585 - Sports Economics (3 Credits)
This course focuses on issues relevant to sport, entertainment, and related industries. The goal of the class will be for students to understand both basic and complex concepts within economics in a sport and entertainment context, in order to grasp the importance of economic decision-making.

SPTE 590 - Special Topics in Live Entertainment and Sport (3 Credits)
Investigation of Special topics pertinent to the sport and entertainment management industry. Content varies by title. May be repeated twice.

SPTE 635 - Sport and Entertainment Event Development (3 Credits)
Business concepts needed to develop sport and entertainment special events.

SPTE 640 - Venue Management: Principles and Practices (3 Credits)
Managing public assembly facilities and venues.
Prerequisites: SPTE 203 or equivalent.

SPTE 650 - Integrated Marketing Communication in Sport and Entertainment (3 Credits)
Use of integrated marketing communication concepts, theories, and strategies in sport and entertainment.
Prerequisites: MKTG 350.
The goal of the SPTE department is to create an integrated academic environment for analyzing and resolving the challenges in the sport and entertainment industry.

**Sport and Entertainment Management Minor**

Students desiring to minor in Sport and Entertainment Management (SPTE) may do so by successfully completing the following course sequence. Students minoring in SPTE may be required to take SPTE courses during the summer sessions in order to complete minor in a timely fashion.

Students must achieve a minimum of a “C” in each course required of the SPTE minor. All course prerequisites must be completed prior to taking the course.

The following courses will be accepted as part of the SPTE minor. All minors are required to meet all course requirements to complete the minor.

### Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 201</td>
<td>Introduction to Sport Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 202</td>
<td>Introduction to Live Entertainment</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 203</td>
<td>Introduction to Event and Venue Management</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SPTE 110</td>
<td>Sport and Entertainment in American Life</td>
<td></td>
</tr>
<tr>
<td>SPTE 310</td>
<td>Collegiate Athletics</td>
<td></td>
</tr>
<tr>
<td>SPTE 315</td>
<td>NCAA Compliance</td>
<td></td>
</tr>
<tr>
<td>SPTE 320</td>
<td>Sport and the Law</td>
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<td>Resort and Club Recreation Programming</td>
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<tr>
<td>SPTE 376</td>
<td>Risk Management in Sport and Entertainment</td>
<td></td>
</tr>
<tr>
<td>SPTE 385</td>
<td>Ethics in Sport and Entertainment Business</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SPTE 402</td>
<td>Entertainment and the Law</td>
<td></td>
</tr>
<tr>
<td>SPTE 410</td>
<td>Sport and Entertainment in Popular Culture</td>
<td></td>
</tr>
<tr>
<td>SPTE 440</td>
<td>Sport and Entertainment Business and Finance</td>
<td></td>
</tr>
<tr>
<td>SPTE 450</td>
<td>Sales in Sport and Entertainment Business</td>
<td></td>
</tr>
<tr>
<td>SPTE 490</td>
<td>Special Topics in Sport and Entertainment Management</td>
<td></td>
</tr>
<tr>
<td>SPTE 545</td>
<td>Managing Part-Time Employees and Volunteers</td>
<td></td>
</tr>
<tr>
<td>SPTE 590</td>
<td>Special Topics in Live Entertainment and Sport</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours** 18

1 Some courses may require prerequisites.

### Learning Outcomes

- Students should be able to demonstrate knowledge of the qualifications, job requirements, and working conditions for a sport and entertainment industry position.
- Students should be able to demonstrate the computer and technical skills needed for a sport and entertainment industry position.
- Students should be able to apply learned concepts and theory to demonstrate an understanding of the nature of the sport and entertainment industry.

### Progression and Graduation Requirements

In order to enroll in the Professional Division of SPTE, students must complete 48-49 credit hours in the courses indicated as Pre-Professional Division with a minimum grade point average of 2.75. Students who do not meet the grade point average requirement for progression must continue in the Pre-Professional division until they achieve a 2.75 GPA or change to another major. Only students admitted to the professional division of Sport and Entertainment Management will be allowed to enroll for more than 18 credit hours of SPTE course work. Graduation requires a 2.75 GPA in order to satisfy the requirements for a degree in Sport and Entertainment Management.

Pre-Professional courses include the following:

- Carolina Core Courses within the CMW, ARP and CMS areas
- Pre-Professional College Related Courses
- Pre-Professional Required Courses
- Pre-Professional Major Courses

### Admissions

#### Entrance Requirements

The College of Hospitality, Retail, and Sport Management has a pre-professional and a professional division of student classification. All new students will begin in the pre-professional division. Progression into the professional division requires the approval of the department and the successful completion of the requirements indicated under each departmental heading.

In addition to the academic admission requirements of the University and of the College of Hospitality, Retail, and Sport Management for admission to the pre-professional division, an enrollment limit into the professional division may be imposed by various departments. Such a limit would become necessary if enrollment levels exceed available department staffing and facility resources. In the event of an enrollment limit, admission to a department may take into account the applicant’s grade point average and other factors which may include the applicant’s potential for success in that major.
Freshmen Students
In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, freshmen applicants must meet all University admission requirements through the Office of Undergraduate Admissions.

Transfer Students
In order to be admitted to a program of study in the College of Hospitality, Retail, and Sport Management, transfer applicants from outside of the USC system must meet all University admission requirements through the Office of Undergraduate Admissions and have at least a 2.25 GPA. The Sport and Entertainment Management major requires a higher GPA than the minimum University entrance standards. Transfer applicants for Sport and Entertainment must have a cumulative GPA of a 3.0 on all college-level work attempted.

Students from other USC campuses who wish to enter the College of Hospitality, Retail, and Sport Management must fulfill one of the following requirements:

1. Be in good standing, meet all University admission requirements through the Office of Undergraduate Admissions, and have the cumulative GPA required for the program (see below).
2. Be in good standing and have completed 30 semester hours with the cumulative GPA required for the program (see below).

Required GPA for Change of Campus: hospitality management - 2.25; integrated information technology - 2.25; interdisciplinary studies (2.0 and separate application required); retailing - 2.25; tourism management - 2.25; and sport and entertainment management - 3.0.

Students enrolled in other colleges on the Columbia campus must meet the following GPA requirements on all work taken: hospitality management - 2.25; integrated information technology - 2.25; interdisciplinary studies (2.0 and separate application required); retailing - 2.25; tourism management - 2.25; and sport and entertainment management - 3.0.

Degree Requirements (120 hours)
Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>21</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>14-26</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>42</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)
- MATH 122 or MATH 141
- STAT 201

SCI – Scientific Literacy (7 hours)
Two approved CC-SCI courses (p. 743) from the natural sciences including one laboratory selected from Astronomy, Biology, Chemistry, Environmental Science, Geology, Marine Science or Physics

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
College of HRSM students must demonstrate proficiency in a foreign language by achieving a score of 2 or higher on the foreign language placement test or by completing one foreign language course through 110 or 121.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
- SPCH 140

INF – Information Literacy (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (21 hours)
Pre-Professional Division Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETL 261</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>RETL 262</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
</tbody>
</table>
SPTE 274  
Computer Applications in Hospitality, Retail, and Sport Management  

Total Credit Hours  
9

### College-Required Courses (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRSM 301</td>
<td>HRSM Professional Development Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 344</td>
<td>Personnel Organization and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>RELT 242</td>
<td>HRSM Professional Communications</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 463</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td>SPTE 240</td>
<td>Business Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours  
12

### Supporting Courses (12 hours)

#### Pre-Professional Related Coursework

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Related Coursework

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 363</td>
<td>Introduction to Finance</td>
<td>3</td>
</tr>
<tr>
<td>or FINA 333</td>
<td>Finance and Markets</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours  
12

### Minor (18 hours) optional

Sport and Entertainment Management majors may pursue a minor in any course of study offered by the College of Hospitality, Retail and Sport Management (HRSM) as well as any other University program with an approved minor. College of HRSM required courses may not be counted toward a minor.

### Electives (2-14 hours)

The SPTE curriculum includes 2-14 hours of electives, depending on how students fulfill the Carolina Core requirements. Courses used to satisfy the elective requirement, which may include additional SPTE Major Electives, must be approved by the SPTE advisor.

### 4. Major Requirements (42 hours)

A minimum grade of C is required in all major courses

#### Major Courses (42 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 201</td>
<td>Introduction to Sport Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 202</td>
<td>Introduction to Live Entertainment Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 203</td>
<td>Introduction to Event and Venue Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 295</td>
<td>Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 380</td>
<td>Sport and Entertainment Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 440</td>
<td>Sport and Entertainment Business and Finance</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 444</td>
<td>Sports and Entertainment Event Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 495</td>
<td>Internship in Sport and Entertainment Management</td>
<td>6</td>
</tr>
</tbody>
</table>

Select four of the following:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 110</td>
<td>Sport and Entertainment in American Life</td>
<td></td>
</tr>
<tr>
<td>SPTE 302</td>
<td>Artist Representation and Management</td>
<td></td>
</tr>
<tr>
<td>SPTE 303</td>
<td>Live Entertainment Tour Management</td>
<td></td>
</tr>
<tr>
<td>SPTE 305</td>
<td>The Business of NASCAR</td>
<td></td>
</tr>
<tr>
<td>SPTE 310</td>
<td>Collegiate Athletics</td>
<td></td>
</tr>
<tr>
<td>SPTE 315</td>
<td>NCAA Compliance</td>
<td></td>
</tr>
<tr>
<td>SPTE 320</td>
<td>Sport and the Law</td>
<td></td>
</tr>
<tr>
<td>SPTE 325</td>
<td>Resort and Club Recreation Programming</td>
<td></td>
</tr>
<tr>
<td>SPTE 340</td>
<td>The Sporting Goods Industry</td>
<td></td>
</tr>
<tr>
<td>SPTE 342</td>
<td>Sport and Entertainment Contracts and Negotiations</td>
<td></td>
</tr>
<tr>
<td>SPTE 376</td>
<td>Risk Management in Sport and Entertainment</td>
<td></td>
</tr>
<tr>
<td>SPTE 385</td>
<td>Ethics in Sport and Entertainment Business</td>
<td></td>
</tr>
<tr>
<td>SPTE 399</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>SPTE 402</td>
<td>Entertainment and the Law</td>
<td></td>
</tr>
<tr>
<td>SPTE 404</td>
<td>Promoting Entertainment Events</td>
<td></td>
</tr>
<tr>
<td>SPTE 410</td>
<td>Sport and Entertainment in Popular Culture</td>
<td></td>
</tr>
<tr>
<td>SPTE 430</td>
<td>Sport and Entertainment Services Marketing</td>
<td></td>
</tr>
<tr>
<td>SPTE 435</td>
<td>Spectator Facilities Management</td>
<td></td>
</tr>
<tr>
<td>SPTE 450</td>
<td>Sales in Sport and Entertainment Business</td>
<td></td>
</tr>
<tr>
<td>SPTE 490</td>
<td>Special Topics in Sport and Entertainment Management</td>
<td></td>
</tr>
<tr>
<td>SPTE 498</td>
<td>Research Experience</td>
<td></td>
</tr>
<tr>
<td>SPTE 499</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>SPTE 501</td>
<td>Trends and Issues in Sport and Entertainment Management</td>
<td></td>
</tr>
<tr>
<td>SPTE 545</td>
<td>Managing Part-Time Employees and Volunteers</td>
<td></td>
</tr>
<tr>
<td>SPTE 570</td>
<td>Special Topics in Global Sport</td>
<td></td>
</tr>
<tr>
<td>SPTE 580</td>
<td>Business Principles in Sport Management</td>
<td></td>
</tr>
<tr>
<td>SPTE 590</td>
<td>Special Topics in Live Entertainment and Sport</td>
<td></td>
</tr>
<tr>
<td>SPTE 635</td>
<td>Sport and Entertainment Event Development</td>
<td></td>
</tr>
<tr>
<td>SPTE 650</td>
<td>Integrated Marketing Communication in Sport and Entertainment</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours  
42

1 SPTE 295 is the final course taken in the Pre-Professional Division required hours. Students must achieve the required 2.75 GPA prior to enrolling in SPTE 295.

### Concentrations (12 hours) optional

Sport and Entertainment Management majors may pursue a concentration in one of three areas: entertainment management, sport management, or venue and event management. The concentration will fulfill the SPTE Electives requirement of the major. Requirements for the concentrations are:

#### Entertainment Management (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 302</td>
<td>Artist Representation and Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 303</td>
<td>Live Entertainment Tour Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 402</td>
<td>Entertainment and the Law</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 590</td>
<td>Special Topics in Live Entertainment and Sport</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours  
12

#### Sport Management (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 302</td>
<td>Artist Representation and Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 303</td>
<td>Live Entertainment Tour Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 402</td>
<td>Entertainment and the Law</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 590</td>
<td>Special Topics in Live Entertainment and Sport</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours  
12

#### Venue and Event Management (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 302</td>
<td>Artist Representation and Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 303</td>
<td>Live Entertainment Tour Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 402</td>
<td>Entertainment and the Law</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 590</td>
<td>Special Topics in Live Entertainment and Sport</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours  
12
Undergraduate  447

Sport Management (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 310</td>
<td>Collegiate Athletics</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 320</td>
<td>Sport and the Law</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 450</td>
<td>Sales in Sport and Entertainment Business</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 580</td>
<td>Business Principles in Sport Management.</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Venue and Event Management (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 325</td>
<td>Resort and Club Recreation Programming</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 342</td>
<td>Sport and Entertainment Contracts and Negotiations</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 435</td>
<td>Spectator Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 545</td>
<td>Managing Part-Time Employees and Volunteers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

B.S. with Distinction (51 hours)

The Departmental Undergraduate Research Track is available to students majoring in sport and entertainment management who wish to participate in significant research activities of the major field in collaboration with, or under the supervision of, a faculty mentor.

Prerequisite
A minimum GPA of 3.50 in major courses, 3.30 institutional GPA.

Requirements
Three courses in addition to the major requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPTE 498</td>
<td>Research Experience</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 499</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>SPTE 501</td>
<td>Trends and Issues in Sport and Entertainment Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Additional Requirements
- Presentation of the senior thesis in an appropriate venue (SEVT, USC Discovery Day, IAVM research session, NASSM, CSRI).
- A written sponsorship agreement from the faculty mentor will be placed on file in the department office.
- Students who successfully fulfill these requirements with a GPA of at least 3.50 in all major courses and a 3.30 overall GPA will be awarded their degree “With Distinction in Sport and Entertainment Management” upon graduation.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Sport and Entertainment Management, B.S. Entertainment Management Concentration

Sport and Entertainment Management, B.S. Sport Management Concentration

Sport and Entertainment Management, B.S. Venue and Event Management Concentration

Sport and Entertainment Management, B.S. No Concentration
ARNOLD SCHOOL OF PUBLIC HEALTH

G. Thomas Chandler, Dean
Alan Decho, Associate Dean for Research
James Hardin, Associate Dean for Faculty Affairs and Curriculum and Interim Chair, Department of Health Services Policy and Management
Lee Pearson, Associate Dean for Operations and Accreditation
Toni Torres-McGehee, Associate Dean for Diversity, Equity and Inclusion
Sara J. Corwin, Associate Dean for Undergraduate Student Affairs
Jean Neils-Strunjas Chair, Department of Communication Sciences and Disorders
Geoff Scott, Chair, Department of Environmental Health Sciences
Anthony Alberg, Chair, Department of Epidemiology and Biostatistics
Shawn Arent, Chair, Department of Exercise Science
Daniela Friedman, Chair, Department of Health Promotion, Education, and Behavior

Overview

Public Health is an exciting and growing field of study. The field challenges its professionals to confront complex health issues, such as improving access to health care, controlling infectious disease, and reducing environmental hazards, violence, substance abuse, and injury. Professionals in Public Health come from varying educational backgrounds and can specialize in an array of fields. A host of specialists, including teachers, journalists, researchers, administrators, environmentalists, demographers, social workers, laboratory scientists, physicians, and attorneys, work to protect the health of the public. This is a field geared toward serving local, national, and international communities. Public Health professionals are leaders who meet the many exciting challenges in protecting the public’s health today and in the future. The Arnold School of Public Health was established by legislative action in 1974 and has been fully accredited by the Council on Education for Public Health (CEPH) since 1979.

The mission of the Arnold School of Public Health is to improve population health and well-being by fostering innovative education and research that promotes health and healthy environments and will use that knowledge to prevent and effectively respond to disease, disability, and environmental degradation in diverse communities. An integral part of the training of students at the school is participation in research activities. Since the state is experiencing rapid demographic and industrial changes, health problems range from those of a traditional rural setting (infectious diseases, infant mortality, access to health care) to those of a modern industrial setting (impact of new industries on air and water quality and the safety of the workplace). The school has been committed to “action research” since its inception. The importance of dealing with operating programs and defined problems has led to close working relationships with human service programs, health care facilities, and governmental agencies throughout the state and region.

The school contains the Prevention Research Center, the Core for Applied Research and Evaluation, the Nutrition Consortium, the Cancer Prevention and Control Program, the Office for the Study of Aging, the Rural and Minority Health Research Center, the Consortium for the Latino Immigration Studies, the Center for Community Health Alignment, the PASOs Program, the Community Health Worker Institute and the Montgomery Speech-Language-Hearing Clinic.

Degree Programs

The Arnold School of Public Health offers both the Bachelor of Arts (B.A.) degree and the Bachelor of Science (B.S.) degree as well as two minors. The B.A. and B.S. in public health are interdisciplinary programs currently administered in the Division of Academic Affairs, while the Department of Exercise Sciences offers the B.S. in Exercise Science.

In addition, the school offers minors in Health Promotion, Education and Behavior and in Nutrition and Food Systems.

Departments

- Communication Sciences and Disorders (p. 448)
- Environmental Health Sciences (p. 449)
- Epidemiology and Biostatistics (p. 450)
- Exercise Science (p. 450)
- Health Promotion, Education, and Behavior (p. 456)
- Health Services Policy and Management (p. 460)
- Public Health Programs (Division of Academic Affairs) (p. 461)

Communication Sciences and Disorders

Department Website (https://www.sc.edu/study/colleges_schools/public_health/study/areas_of_study/communication_sciences_and_disorders/index.php/facultystaff.php)

Kenn Apel, Chair
Allen A. Montgomery, Director of Doctoral Program

The Department of Communication Sciences and Disorders offers programs leading to the degrees of Master of Speech Pathology, Master of Communication Disorders, and Doctor of Philosophy. The following courses are available for undergraduate credit with permission of the faculty, with the exception of COMD 500, which is open to all with no special permission required.

Courses

COMD 401 - Public Health Perspective in Communication Sciences and Disorders (3 Credits)
Public health issues related to speech, language, and hearing from local, national and global perspective in historical context. Special permission required by department.

COMD 408 - Directed Study in Speech and Language Pathology (1-3 Credits)
Directed readings and/or research in speech pathology.

COMD 500 - Introduction to Speech-Language Pathology and Audiology (3 Credits)
Human communication disorders with an overview of prevention and treatment programs.

COMD 501 - Anatomy and Physiology of Speech and Hearing Mechanisms (3 Credits)
An intensive study of the anatomy and physiology of the speech and hearing mechanisms.
Environmental Health Sciences

Department Website (https://www.sc.edu/study/colleges_schools/public_health/study/areas_of_study/environmental_health_sciences/)

Geoff Scott, Chair
Alan W. Decho, Associate Chair

Courses

ENHS 223 - Introduction to Global Environmental Health (3 Credits)
Introduction to global environmental health, with a focus on toxic pollution and disease burden in developing countries. Investigation of international treaties, corresponding environmental pollution processes, and human health effects.

ENHS 321 - Environmental Pollution and Health (3 Credits)
A survey of pollution (chemical, biological, physical) effects on environmental quality and public health with emphases on how each pollutant class behaves and affects individual and community health over acute to chronic exposure periods.

ENHS 323 - Global Environmental Health (3 Credits)
Concerns in global environmental health, with a focus on toxic pollution and disease burden in developing countries. Investigation of international treaties, corresponding environmental pollution processes, and human health effects.

ENHS 324 - Environment and Obesity (3 Credits)
Role of the built environment and environmental toxins in the development and progression of obesity and metabolic syndrome from a public health perspective.

ENHS 450 - Introduction to Public Health Microbiology (3 Credits)
Public health microbiology and the intersection between microbial disease, the environment, and health, with a particular focus on critical public health issues in the 21st century.

ENHS 592 - Advanced Special Topics in Environmental Health Sciences (3 Credits)
Issues and emerging themes in environmental health. May be repeated for a total of 9 credit hours as content varies by title.

ENHS 492 - Special Topics in Environmental Health Sciences (3 Credits)
Emerging issues and topics concerning environmental health. May be repeated as content varies by title up to a total of 9 credit hours.

ENHS 515 - Introduction to Public Health and Emergency Preparedness and Response (3 Credits)
Introduction to emergency preparedness and response in relation to environmental and public health. Historical context for the emergence of public health emergency preparedness and demonstration of articulation with community response partner agencies in the post-9/11 era.

ENHS 490 - Independent Study (1-3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor. May be repeated.

ENHS 660 - Concepts of Environmental Health Science (3 Credits)
Environmental health sciences presenting the earth as a complex system in which people, plants, animals, and non-living physical-chemical components interact.

ENHS 661 - Parasitology (4 Credits)
Parasites of biological, economic, and public health importance.

ENHS 664 - Environmental Genomics (3 Credits)
“State of the art” molecular techniques that elucidate mechanisms of environmental contaminants in model systems.
ENHS 665 - Biofilms in Environmental Health and Disease (3 Credits)
Effect of bacterial biofilm process on many diverse areas. Recognition, prevention, and control of biofilm-related problems in the environment, health care, industry, and engineering.

ENHS 666 - Metals and Human Health (3 Credits)
Trace metal(loid)s, their fate and transport in the environment and their potential impacts on human health.
**Prerequisites:** BIOL 101 or BIOL 110; CHEM 101 and CHEM 102, or equivalent.

ENHS 670 - Environmental Pollutants and Human Health (3 Credits)
Overview of environmental pollutants and their impact on human health; case studies of environmental catastrophes; principles of ecotoxicology; air, water, and land pollution associated with neurotoxicity, toxicology, and carcinogenesis.
**Prerequisites:** BIOL 101 or BIOL 110; CHEM 101 and CHEM 102.

ENHS 671 - From Air to Alveoli: Exposure Scienceq (3 Credits)
A receptor-oriented approach for assessing human exposure to environmental contaminants by inhalation, dermal and ingestion routes. Covers methods for estimating exposures to protect health and well-being, to relate adverse effects to exposures, and to comply with regulations and guidelines.

ENHS 675 - Infectious Disease Ecology (3 Credits)
Ecological theories as the basis for environmental change and the (re)emergence of infectious agents that ultimately impact human and ecosystem health.

ENHS 681 - Occupational Ergonomics I (3 Credits)
Introduction to ergonomics: hazards identification and analysis; solution design and implementation; human musculoskeletal characteristics, injuries; effects of work on performance, safety, and health. Application to manufacturing and office environments.

Epidemiology and Biostatistics

Department Website (https://www.sc.edu/study/colleges_schools/public_health/study/areas_of_study/epidemiology_biostatistics/)

Anthony Alberg, Chair

**Courses**

BIOS 410 - Introduction to Biostatistical Modeling (3 Credits)
Statistical modeling, primarily using applications in public health. Measures of agreement, principles of statistical inference, correlation, simple and multiple linear regression, categorical independent variables, interaction, repeated measures, and logistic regression.
**Prerequisites:** STAT 205 or equivalent.

BIOS 490 - Independent Study (1-3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor. May be repeated.
**Graduation with Leadership Distinction:** GLD: Research

BIOS 650 - Quantitative Methods in the Health Sciences (3 Credits)
Designed for professionals and pre-professionals who wish to utilize quantitative methods in public and private decision-making; exploratory data analysis, research methods in natural and controlled environments, and elementary biostatistical methods.
**Prerequisites:** STAT 201.

EPID 394 - Special Topics in Epidemiology (1-3 Credits)
Novel and emerging themes in epidemiology. Content varies by instructor and title. May be repeated for a total of 9 credit hours.

EPID 410 - Principles of Epidemiology (3 Credits)
Introduction to descriptive and analytical epidemiology. Topics will include the distribution and determinants of disease, surveillance, outbreak investigations, measures of association, screening tests, bias, and causal reasoning.
**Prerequisite or Corequisite:** STAT 201 or STAT 205.

**Graduation with Leadership Distinction:** GLD: Research

**EPID 490 - Independent Study (1-3 Credits)**
Enrollment and topic to be approved in advance by advisor and instructor. May be repeated.
**Prerequisites:** Instructor Permission.

**Graduation with Leadership Distinction:** GLD: Research

**EPID 594 - Special Topics in Epidemiology (1-6 Credits)**
This course will introduce epidemiologic concepts and methods using cases studies examining current global health challenges. Students will gain an understanding of the role of epidemiology in understanding the distribution of disease and risk factors, and developing, implementing and evaluating public health interventions globally.

**EPID 661 - Parasitology (4 Credits)**
Parasites of biological, economic, and public health importance. Three lecture and three laboratory hours per week.
**Prerequisites:** 300 level Biology course or equivalent.
**Cross-listed course:** BIOL 531, ENHS 661

**Exercise Science**

Department Website (http://www.sph.sc.edu/exsc/)
Shawn Arent, Ph.D., Chair

The mission of the Department of Exercise Science is to expand and disseminate the body of knowledge concerning the relationship between exercise participation and human health.

**Programs of Study**

The undergraduate program leading to a Bachelor of Science degree with a major in exercise science is a science-based program designed primarily to prepare students for entry into post-baccalaureate/graduate programs in health-related fields. A departmental core curriculum provides comprehensive mastery of exercise science.

**Entrance Requirements**

New freshmen who meet University admissions standards are eligible for admission to the degree program offered by the Department of Exercise Science. Transfer admission requires department approval as well as prerequisites.

**Transfer Admission**

1. Students enrolled in other colleges on the Columbia campus must have a minimum cumulative GPA of 2.75 and must have at least 12 USC credit hours.
2. Students from other USC campuses must have a cumulative GPA of 2.75 and must have taken at least 12 USC credit hours. Additionally, students from other USC campuses who have fewer
Retention and Progression Standards

1. If the semester, yearly, or cumulative grade point average of a student is below 2.00, the student will be notified in writing.
2. An exercise science major must receive a grade of C or higher in any course in order for it to serve as a prerequisite.
3. A student in exercise science must earn a grade of C or higher in all EXSC departmental course work (EXSC) and in required cognates.
4. An exercise science major may attempt an EXSC course and any prerequisites a maximum of two times to fulfill the requirement. A grade of W will be included as an attempt.
5. An exercise science major may repeat a maximum of three EXSC courses.

Attendance Requirements

Students enrolled in the Department of Exercise Science are subject to attendance regulations of the University described elsewhere in the bulletin. When a student enrolls in a particular course, the student is obligated for all the work which may be assigned. Punctual and regular attendance is vital to the discharge of this obligation. The student is responsible for all assigned work in a course, and absences, excused or not, do not absolve the student of this responsibility.

Minors

Students majoring in Exercise Science may pursue minors offered by other units. In completing a minor, students may apply advisor-approved courses to both the minor and cognate, or elective requirements.

Programs

- Exercise Science, B.S. (p. 455)

Courses

ATEP 263 - Introduction to Athletic Training (3 Credits)
Introduction to the historical evolution of athletic training with an emphasis on program development including basic athletic training principles/skills associated with common sports injuries/illnesses.

ATEP 266 - Care and Prevention of Injuries (3 Credits)
Knowledge, skills, and values associated with prevention, care, treatment, and rehabilitation of common injuries/illnesses.

ATEP 267 - Clinical Foundations in Athletic Training (3 Credits)
Basic knowledge and skill in athletic injury prevention, care, and recognition; medical terminology; fulfillment of athletic training clinical proficiencies.

ATEP 292 - Athletic Training Clinical Experience I (2 Credits)
Supervised clinical experience in an athletic training setting. Integrates cognitive learning in conjunction with psychomotor skill development and assessment. Restricted to athletic training majors. Special permission required by department. Accepted into ATEP.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 293 - Athletic Training Clinical Experience II (2 Credits)
Supervised clinical experience in an athletic training setting. Integrates cognitive learning in conjunction with psychomotor skill development and assessment Restricted to athletic training majors. Special permission required by department.

Prerequisites: ATEP 348, ATEP 348L, ATEP 292.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 300 - First Aid and CPR (2 Credits)
Knowledge and skills necessary to meet the needs of situations when emergency care is critical. Includes American Red Cross CPR/AED and First Aid certification. Encompasses skills for adult, child, and infant CPR/AED, breathing emergencies, and first aid procedures for emergency situations.

Corequisite: ATEP 300L.

ATEP 300L - First Aid and CPR Lab (1 Credit)
Skill development to meet guidelines for certification. Skills include AED, adult, child, and infant CPR, breathing emergencies, and first aid.

Corequisite: ATEP 300.

ATEP 310 - Emergency Medical Response (2 Credits)
Knowledge acquisition necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. Appropriate decisions about the care to provide in a medical emergency. Understanding the role of an EMR as a crucial link in the emergency medical services (EMS) system.

Corequisite: ATEP 310L.

ATEP 310L - Emergency Medical Responder Lab (1 Credit)
Clinical applications necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. Appropriate decisions about the care to provide in a medical emergency. Skills an EMR needs to act as a crucial link in the emergency medical services (EMS) system.

Corequisite: ATEP 310.

ATEP 348 - Evaluation and Assessment of Lower Extremity Injuries (3 Credits)
Knowledge and skills for orthopedic/physical assessment of common injuries to the lower body; study of the lower extremities as they relate to the prevention, recognition, evaluation and assessment, immediate care, and treatment; rehabilitation and reconditioning of injuring and illnesses to athletes and others engaged in physical activity.

Prerequisites: ATEP 266, EXSC 275.

Corequisite: ATEP 348L.

ATEP 348L - Evaluation and Assessment of Lower Extremity Injuries Lab (1 Credit)
Laboratory setting to enhance knowledge and skills for orthopedic/physical assessment of common injuries to the lower extremities.

Prerequisites: ATEP 266.

Corequisite: ATEP 348.
ATEP 349 - Evaluation and Assessment of Head, Neck, Spine & Abdomen Injuries (3 Credits)
Knowledge and skills for orthopedic/physical assessment of common injuries to the cervical spine, head, face, abdomen, and thorax. Study of the cervical spine, head, face, abdomen and thorax as they related to the prevention, recognition, evaluation and assessment; immediate care, treatment, rehabilitation, and reconditioning of injuries and illnesses to athletes and others engaged in physical activity.
Prerequisites: ATEP 292, ATEP 348, ATEP 348L.
Corequisite: ATEP 349L.

ATEP 349L - Evaluation and Assessment of Head, Neck, Spine & Abdomen Injuries Lab (1 Credit)
Skill development for orthopedic/physical assessment of common injuries to the cervical spine, head, face, abdomen, and thorax.
Prerequisites: ATEP 348, ATEP 348L.
Corequisite: ATEP 349.

ATEP 350 - Evaluation and Assessment of Upper Extremity Injuries (3 Credits)
Prevention, recognition, orthopedic assessment of common injuries to the upper body; immediate care, treatment, and rehabilitation of injuries and illnesses to athletes.
Prerequisites: ATEP 349, ATEP 349L.
Corequisite: ATEP 350L.

ATEP 350L - Evaluation and Assessment of Upper Extremity Injuries (1 Credit)
Prevention, recognition, orthopedic assessment of common injuries to the upper body; immediate care, treatment, and rehabilitation of injuries and illnesses to athletes.
Prerequisites: ATEP 349, ATEP 349L.
Corequisite: ATEP 350.

ATEP 356 - Therapeutic Modalities (3 Credits)
Knowledge and techniques needed to plan, operate, document, and evaluate therapeutic modalities used in treatment of injuries/illnesses.
Prerequisites: ATEP 293, ATEP 348, ATEP 348L.
Corequisite: ATEP 366L.

ATEP 366L - Therapeutic Modalities Lab (1 Credit)
Integrates cognitive learning in conjunction with psychomotor skill development and assessment on the application of modalities in laboratory situations.
Corequisite: ATEP 366.

ATEP 365 - Pharmacology and Drug Education in Athletic Trainers (2 Credits)
Knowledge, skills, and values associated with athletic trainer’s pharmacological applications in the treatment of injuries/illnesses, including use of alcohol and illicit drugs.
Prerequisites: ATEP 293, ATEP 348, ATEP 348L.

ATEP 366 - Therapeutic Modalities (3 Credits)
Knowledge and techniques needed to plan, operate, document, and evaluate therapeutic modalities used in treatment of injuries/illnesses.
Prerequisites: ATEP 293, ATEP 349, ATEP 349L.
Corequisite: ATEP 366L.

ATEP 366L - Therapeutic Modalities Lab (1 Credit)
Integrates cognitive learning in conjunction with psychomotor skill development and assessment on the application of modalities in laboratory situations.
Corequisite: ATEP 366.

ATEP 369 - Exercise Science - Therapeutic Modalities (3 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 293, ATEP 349, ATEP 349L.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 392 - Athletic Training Clinical Experience III (2 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 293, ATEP 349, ATEP 349L.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 393 - Athletic Training Clinical Experience IV (2 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 365, ATEP 366, ATEP 366L, ATEP 392.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 394 - Athletic Training Clinical Experience V (2 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 393, ATEP 394, ATEP 394L.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 395 - Athletic Training Clinical Experience VI (2 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 393, ATEP 394, ATEP 394L.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 466 - Therapeutic Exercise (3 Credits)
Knowledge and techniques needed to plan, operate, document, and evaluate therapeutic exercise programs for the rehabilitation and reconditioning of injured patients.
Prerequisites: EXSC 223, EXSC 224, ATEP 365, ATEP 366, ATEP 366L, ATEP 392.
Corequisite: ATEP 466L.

ATEP 466L - Therapeutic Exercise Lab (1 Credit)
Techniques and skills of therapeutic exercise used in the development of rehabilitation programs for various injuries.
Corequisite: ATEP 466.

ATEP 492 - Athletic Training Clinical Experience V (2 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 393, ATEP 466, ATEP 466L, ATEP 497.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 493 - Athletic Training Clinical Experience VI (2 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 492, ATEP 496.

ATEP 494 - Athletic Training Senior Seminar (3 Credits)
Preparation for the BOC examination for athletic trainers; advanced skills and integration of athletic training principles and development of athletic training research; professional research and current literature pertaining to relevant topics in athletic training.
Prerequisites: ATEP 492.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ATEP 496 - Organization and Administration of Athletic Training (3 Credits)
Management and operation of athletic training programs.
Prerequisites: ATEP 393, ATEP 466, ATEP 466L, ATEP 497.

ATEP 497 - General Medical Concerns for Athletic Trainers (3 Credits)
Knowledge and skills to recognize, treat, and refer general medical conditions and disabilities.
Prerequisites: ATEP 365, ATEP 366, ATEP 366L, ATEP 392.
EXSC 191 - Physical Activity and Health (3 Credits)
Concepts of exercise, nutrition, behavior changes, and skills to promote lifelong physical activity and health.

EXSC 200 - Introduction to Sports Medicine and Athletic Training (3 Credits)
Examination of careers and specific practices within sports medicine, specifically athletic training.
Prerequisites: C or better in EXSC 223 and EXSC 223L.

EXSC 201 - Foundations of Physical Therapy (3 Credits)
Introduction to the profession and practice of physical therapy detailing the functions, disorders, and therapies of the major organ systems in applied context.

EXSC 223 - Anatomy and Physiology I (3 Credits)
The structure and functions of the human body: tissues, integument, skeletal, muscular, respiratory, and reproductive systems, and regulation of eating and metabolism.
Prerequisites: ENGL 102; BIOL 102; CHEM 111; MATH 122 or MATH 141.

EXSC 223L - Anatomy and Physiology I Laboratory (1 Credit)
Hands-on activities covering micro- and macroscopic anatomical topics including identification of tissues, bones and markings of the skeletal system, the joints, and the skeletal muscles of the body.
Prerequisites: ENGL 102; BIOL 102, CHEM 111; MATH 122 or MATH 141.

Prerequisite or Corequisite: EXSC 223.

EXSC 224 - Anatomy and Physiology II (3 Credits)
The structure and functions of the human body: nervous, cardiovascular, digestive, immune, urinary, and endocrine systems.
Prerequisites: C or better in EXSC 223 and EXSC 223L.

EXSC 224L - Anatomy and Physiology II Lab (1 Credit)
Hands-on activities covering the gross anatomy nervous, cardiovascular, digestive, and muscular systems.
Prerequisites: C or better in both EXSC 223 and EXSC 223L.

EXSC 275 - Functional Musculoskeletal Anatomy (2 Credits)
Human anatomy for allied health professions. Focus on anatomy relevant to providing health services; knowledge and skills of orthopedic anatomy relative to muscle, ligament, and tendon; muscle origins, insertions, innervations, and actions pertaining to joint motion.
Prerequisites: EXSC 223 and EXSC 223L.

Corequisite: EXSC 275L.

EXSC 275L - Functional Musculoskeletal Anatomy Lab (1 Credit)
Clinical application of human anatomy for allied health care professions using discussion, models, and charts. Anatomy relevant to providing health care to individuals.
Prerequisites: EXSC 223 and EXSC 223L.

Corequisite: EXSC 275.

EXSC 303 - Perceptual-Motor Development (3 Credits)
Theoretical foundations and observation of growth and motor development of children, age birth to 10 years. Observation will be provided via video and live subjects provided by the instructor.
Prerequisites: C or higher in both EXSC 224 and EXSC 224L.

EXSC 330 - Exercise Physiology (3 Credits)
The individual and combined roles of the major organ systems of the body in maintaining homeostasis during muscular exercise.
Prerequisites: C or better in EXSC 224 and EXSC 224L.

Corequisite: EXSC 330L.

EXSC 330L - Exercise Physiology Lab (1 Credit)
Laboratory procedures in exercise physiology; measurement of physical fitness components.
Prerequisites: EXSC 224 and EXSC 224L.

Corequisite: EXSC 330.

EXSC 335 - Biomechanics of Human Movement (3 Credits)
Kinetic and kinematic principles governing efficient human movement. Selected methods of analyzing human movement will be reviewed.
Prerequisites: C or better in EXSC 224, EXSC 224L, PHYS 201 and PHYS 201L.

EXSC 341A - Health Fitness Practicum (1 Credit)
First hour of a supervised practicum in a clinical setting for the Health Fitness Track.
Prerequisites: EXSC 223, EXSC 224.

Cross-listed course: EXSC 341B, EXSC 341C

EXSC 341B - Health Fitness Practicum (1 Credit)
Second hour of a supervised practicum in a clinical setting for the Health Fitness Track.
Prerequisites: EXSC 223, EXSC 224, EXSC 341A.

Cross-listed course: EXSC 341A, EXSC 341C

EXSC 341C - Health Fitness Practicum (1 Credit)
Third hour of a supervised practicum in a clinical setting for the Health Fitness Track.
Prerequisites: EXSC 223, EXSC 224, EXSC 341A, EXSC 341B.

EXSC 342A - Practicum in Life-Span Motor Development (2 Credits)
Part I of a supervised practicum in a clinical setting in life-span motor development.
Prerequisites: EXSC 223, EXSC 224, EXSC 303.

Cross-listed course: EXSC 342B

EXSC 342B - Practicum in Life-Span Motor Development (2 Credits)
Part II of a supervised practicum in a clinical setting in life-span motor development.
Prerequisites: EXSC 223, EXSC 224, EXSC 303, EXSC 342A.

Cross-listed course: EXSC 342A

Graduation with Leadership Distinction: GLD: Research

EXSC 343 - Practicum in Exercise Science (1-3 Credits)
Supervised practicum in a research or clinical setting for scientific-foundations track. Departmental special permission required.
Prerequisites: EXSC 223, EXSC 224.

EXSC 351 - Acquisition of Motor Skills (3 Credits)
Scientific and behavioral foundation of the learning and performance of motor skills.
Prerequisites: EXSC 223, EXSC 224.

Graduation with Leadership Distinction: GLD: Research
EXSC 355 - Special Topics in Exercise Science (1-3 Credits)
Novel and emerging themes in exercise science. Content varies by instructor and title. May be repeated for a total of 6 credit hours as content varies by title.

EXSC 395 - Research Seminar in Exercise Science (3 Credits)
The research process in exercise science; participation in, presentation and discussion of current research.
Prerequisites: EXSC 223, EXSC 224.

Graduation with Leadership Distinction: GLD: Research
EXSC 401 - Practicum Preparation (1 Credit)
Integration of major program of study and general education; issues of transition into senior practicum - EXSC 444.
Prerequisites: EXSC 330.

EXSC 410 - Psychology of Physical Activity (3 Credits)
Introduction to psychosocial factors in physical activity. Topics include mental health effects of exercise, behavior change theories applied to physical activity, and physical activity determinants and interventions.
Prerequisites: PSYC 101.

EXSC 444 - Exercise Science Practicum (6 Credits)
Supervised experience in a field, clinical, or research setting. EXSC majors only.
Prerequisites: EXSC 401.

EXSC 454 - Health/Fitness Programs (3 Credits)
Design and implementation of health/fitness programs.
Prerequisites: EXSC 223, EXSC 224.

EXSC 464 - Conditioning Methods in Athletic Performance (3 Credits)
Students will learn how to perform pre-exercise assessments, develop appropriate exercise training programs based on these assessments, as well as lead and demonstrate safe and effective methods of exercise by the application of the primary theories and principles of exercise science.
Prerequisites: C or better in both EXSC 224 and EXSC 224L

EXSC 481 - Practicum in Community Fitness Programs (9 Credits)
Supervised experience in the administration of community-based fitness programs. Concurrent seminar with the supervising instructor.
Prerequisites: EXSC 223, EXSC 224, EXSC 341A, EXSC 330, EXSC 330L, EXSC 531.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
EXSC 482 - Internship in Life-Span Motor Development (9 Credits)
Supervised practical experience in clinical and/or field setting: individualized program and activity planning, and evaluation of neuromuscular abilities.
Prerequisites: EXSC 223, EXSC 224, EXSC 303, EXSC 342A, EXSC 342B.

EXSC 483 - Internship in Scientific Foundations (3 Credits)
Supervised experience in a clinical, field, or research setting. Restricted to Exercise Science Majors; Junior and Senior Level Standing.
Prerequisites: EXSC 223, EXSC 224.

EXSC 499 - Independent Study (1-3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor.
Prerequisites: EXSC 223, EXSC 224.

Graduation with Leadership Distinction: GLD: Research
EXSC 507 - Exercise, Sport, and Nutrition (3 Credits)
The relationship between exercise, sport performance, and nutrient metabolism.
Prerequisites: EXSC 223, EXSC 224, EXSC 330, EXSC 330L.

EXSC 531 - Clinical Exercise Physiology (3 Credits)
Scientific bases of clinical exercise programming. The fitness instructor's role in encouraging changes in exercise behavior.
Prerequisites: EXSC 223, EXSC 224, EXSC 330, EXSC 330L.

Corequisite: EXSC 531L.

EXSC 531L - Clinical Exercise Physiology Lab (0 Credits)
Prerequisite: EXSC 223, EXSC 224, EXSC 330, EXSC 330L.

EXSC 541 - Physiological Basis for Strength and Conditioning (3 Credits)
Investigation on the physiological basis for strength and conditioning. Principles of strength and conditioning through lecture based learning, demonstrations, and through laboratory activities.
Prerequisites: C or better in EXSC 330.

EXSC 555 - Current Topics in Exercise Science (1-3 Credits)
Content varies by title. Course may be repeated for a total of 6 credit hours.

EXSC 562 - Impairments of the Human Motor System (3 Credits)
Role of motor development in the growth and development of individuals exhibiting impaired motor control.
Prerequisites: biology, anatomy, physiology, or the equivalent.

EXSC 563 - Physical Activity and the Physical Dimensions of Aging (3 Credits)
The effects of age and physical activity on physical and motor functions of elderly individuals.
Prerequisites: EXSC 223, EXSC 224, EXSC 351, EXSC 330, EXSC 330L.

EXSC 585 - Women's Health and Physical Activity (3 Credits)
Sex differences in diseases, physiological function of sex hormones, hormonal changes in a woman's life, specific women's health issues, and role of physical activity and exercise in prevention and treatment of conditions and diseases specific to women or related to sex hormones. Restricted to 30 students, Special Permission by Instructor.

EXSC 608 - Apps, Wearables and Technology for Lifestyle Behavior Change and Weight Loss (3 Credits)
The course will increase students' understanding of the theoretical foundations, scientific evidence and practical application of technology-assisted lifestyle interventions, with an emphasis on behavioral weight control for adults.
Prerequisites: C or better in EXSC 410.

EXSC 620 - Nutrition and Immunology (3 Credits)
Examination of the interrelationships that link human nutrition to the immune system in health and disease. Topics will include basic immunology, overview of nutritional sources, deficiencies and excesses, and the impact on public health issues such as exercise, disease and aging.
Prerequisites: EXSC 330.

EXSC 626 - Cardiorespiratory Exercise Physiology (3 Credits)
Examination of the anatomy and function of the cardiovascular and respiratory systems of the exercising human organism, including acute adjustments and chronic adaptations to the systems.
Prerequisites: EXSC 330.
EXSC 666 - Cardiorespiratory Exercise Physiology (3 Credits)
Examination of the anatomy and function of the cardiovascular and
respiratory systems of the exercising human organism, including acute
adjustments and chronic adaptations to the systems.
Prerequisites: EXSC 330.

EXSC 669 - Skeletal Muscle Physiology: Form and Function (3 Credits)
Skeletal muscle physiology and exercise through select laboratory
experiences and discussion of related research literature.
Prerequisites: C or better in both EXSC 330 and EXSC 330L.

EXSC 695 - Writing and Presenting in Research (3 Credits)
The research process in Exercise Science through participation,
presentation, and discussion of current research.
Prerequisites: EXSC 224.

Exercise Science, B.S.

Learning Outcomes

• Students will describe the relationship among behavior, physical
  activity, functional capacity, and health and disease across the life
  span.
• Students will explain the connections between anatomical structures,
  physiological, and cellular mechanisms of exercise.
• Students will use scientific inquiry skills to understand research on
  exercise science and public health issues.
• Students will conduct disease risk factor screening, physical fitness
  assessments, and clinical exercise testing.
• Students will explain factors related to optimal motor skill function
  related to physical activity and exercise.
• Students will demonstrate proficient reasoning and critical thinking
  including the ability to analyze, synthesize, and evaluate information
  to make sound decisions and solve problems as they apply to
  exercise science and health.

Admission Requirements
Incoming freshmen who meet University of South Carolina admissions
standards are eligible for admission to the degree programs offered by
the Arnold School of Public Health. Transfer admission requires school
approval as well as prerequisite conditions detailed with the specific
programs.

Degree Requirements (120 hours)
See Arnold School of Public Health (p. 448) for progression
requirements and other regulations.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>12-15</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>36-51</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>25</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive
Communication: Written (6 hours)
must be passed with a grade of C or higher

• ENGL 101
• ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)
must be passed with a grade of C or higher

• MATH 122 or MATH 141
• STAT 201 or STAT 205

SCI – Scientific Literacy (8 hours)
must be passed with a grade of C or higher

• BIOL 101
• BIOL 101L
• BIOL 102
• BIOL 102L

GFL – Global Citizenship and Multicultural
Understanding: Foreign Language (0-6 hours)
Students shall demonstrate in one foreign language the ability to
comprehend the topic and main ideas in written and, with the exception
of Latin and Ancient Greek, spoken texts on familiar subjects. This ability
can be demonstrated by achieving a score of two or better on a USC
foreign language test. Those failing to do so must satisfactorily complete
an equivalent study of foreign language at USC.

• CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural
Understanding: Historical Thinking (3 hours)
• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural
Understanding: Social Sciences (3 hours)
must be passed with a grade of C or higher

• PSYC 101

AIU – Aesthetic and Interpretive Understanding (3 hours)
• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive
Communication: Spoken Component 1 (0-3 hours)
• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)
VSR – Values, Ethics, and Social Responsibility \(^1\) (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

\(^1\) Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Each student must complete an EXSC cognate of 12 credit hours. The cognate is intended to support the course work in the major. Depending on specific course choices, students must complete an appropriate number of elective courses.

2. College Requirements (12-15 hours)

must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPID 410</td>
<td>Principles of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 191</td>
<td>Physical Activity and Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 302</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 101</td>
<td>Introductory Sociology</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 101</td>
<td>The Student in the University (transfer students are not required to take this course)</td>
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</tr>
</tbody>
</table>

Total Credit Hours 15

3. Program Requirements (36-51 hours)

Supporting Courses (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
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</tr>
<tr>
<td>CHEM 111L</td>
<td>General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>General Physics I</td>
<td>3</td>
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<tr>
<td>PHYS 201L</td>
<td>General Physics Laboratory I</td>
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Select one of the following:

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
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</tr>
<tr>
<td>PHYS 202</td>
<td>General Physics II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 12

Exercise Science Cognate (12 hours)

Must be passed with a grade of C or higher.

Each student must complete an EXSC cognate of 12 credit hours. The cognate is intended to support the course work in the major. Depending on students interests, cognate courses may be selected from one or several units. A cognate is different from a minor in that the courses must be 300-level or above and may be distributed over more than one subject area. Courses applied toward minimum Carolina Core requirements, EXSC core courses, or EXSC cognate courses cannot be counted toward the cognate. All cognate courses must be approved by the student’s academic advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined here (p. 465).

Minor (18 hours) optional

Students majoring in Exercise Science may pursue minors offered by other units. In completing a minor, students may apply advisor-approved courses to both the minor and cognate, or elective requirements.

Electives (0-15 hours)

Students in Exercise Science must complete a minimum of 120 credit hours. Depending on specific course choices, students must complete an appropriate number of elective courses.

4. Major Requirements (25 hours)

A minimum grade of C is required in all major courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EXSC 223</td>
<td>Anatomy and Physiology I</td>
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<tr>
<td>EXSC 223L</td>
<td>Anatomy and Physiology I Laboratory</td>
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<tr>
<td>EXSC 224</td>
<td>Anatomy and Physiology II</td>
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<tr>
<td>EXSC 224L</td>
<td>Anatomy and Physiology II Lab</td>
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<tr>
<td>EXSC 330</td>
<td>Exercise Physiology</td>
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<tr>
<td>EXSC 330L</td>
<td>Exercise Physiology Lab</td>
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</tr>
<tr>
<td>EXSC 335</td>
<td>Biomechanics of Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 410</td>
<td>Psychology of Physical Activity</td>
<td></td>
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<tr>
<td>EXSC 351</td>
<td>Acquisition of Motor Skills</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 401</td>
<td>Practicum Preparation</td>
<td>1</td>
</tr>
<tr>
<td>EXSC 444</td>
<td>Exercise Science Practicum</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credit Hours 25

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Exercise Science, B.S.

Health Promotion, Education, and Behavior

Department Website (http://www.sph.sc.edu/hpeb/)

Edward A. Frongillo, Jr., Chair

Programs leading to degrees in health promotion, education, and behavior focus on understanding how policy, environmental, institutional, and individual actions can improve the public’s health. This work, usually done in partnership with organizations and communities, uses principles and methods from the social and behavioral sciences to promote health in diverse settings across South Carolina, the US, and the globe. Health promotion, education, and behavior is an activist field...
with a deep commitment to improving the health and welfare of the most disadvantaged people in our world. The field recognizes the importance of learning not just what should and can be done to improve the public’s health, but also how it can be done in a way that is cost-effective, embedded in community structures and culture, and at a large enough scale to have real impact. Programs in health promotion, education, and behavior prepare practice and research professionals through courses, practical experiences, and research projects that emphasize understanding of learning, motivation, behavior change, program planning and evaluation, community development, organizational behavior, applied communications, and socio-political processes at multiple levels of societal organization. Students are prepared to engage in professional activities that will:

- influence individuals to adopt or maintain healthful practices through skill development, social support enhancement, and environmental and policy change
- foster teaching and communication skills in all those engaged in health promotion
- advocate changes in organizations and the environment which will facilitate healthful practices
- develop appropriate and effective programs aimed at promoting good health through change in behaviors at the intrapersonal, interpersonal, organizational, community, and public-policy levels
- enhance the health promoter’s role as a model, advocate, and leader in public health
- evaluate health promotion programs to ensure they are meeting societal goals and program objectives
- develop and disseminate new knowledge through systematic research and evaluation
- inform people about health, wellness, illness, and disability, and ways in which they can protect and improve their health, including more efficient use of the health care delivery system.

The Department of Health Promotion, Education, and Behavior offers programs that lead to the degrees of Master of Public Health, dual degree Master of Social Work/Master of Public Health, Doctor of Philosophy, and Doctor of Public Health and to the Graduate Certificate in Health Communication. Although no undergraduate degree is offered by the department, undergraduate students may complete a minor in health promotion, education, and behavior (18 hours). The following courses are available for undergraduate credit with permission of the faculty.

**Programs**

- Health Promotion, Education, and Behavior Minor (p. 459)
- Nutrition and Food Systems Minor (p. 460)

**Courses**

HPEB 300 - Introduction to Health Promotion, Education, and Behavior (3 Credits)
The historical and philosophical basis, current problems, career opportunities, and literature in the health promotion, education, and behavior change professions.

HPEB 301 - Practicum in Health Promotion (1-6 Credits)
Practical experience in applying health promotion principles in the community or organization.

**Prerequisites:** HPEB 300.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Internships

HPEB 321 - Personal and Community Health (3 Credits)
Psychosocial health, stress management, leading infectious and noninfectious diseases, nutrition, physical fitness, sexuality, consumer health and health care access, environmental health, aging, and death.

**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy

HPEB 331 - Health Education for the Elementary School (3 Credits)
Methods and materials for elementary schools. Integration and correlation of materials with school subjects. Sample content developed for primary, intermediate, and upper grades.

HPEB 335 - First Aid and Emergency Preparedness (3 Credits)
Emphasis upon preparing school personnel to act responsibly in emergency situations. Includes the American National Red Cross standard and advanced first aid instruction.

HPEB 399 - Independent Study (1-3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor. Open to sophomores and above.

**Graduation with Leadership Distinction:** GLD: Research

HPEB 434 - Health Education (3 Credits)
Methods of teaching health in school and community settings; techniques and strategies.

**Prerequisites:** HPEB 221, HPEB 223, and HPEB 224.

HPEB 468 - Safety and Safety Education (3 Credits)
Place of safety in modern life. Contributing factors to accidents, developing an awareness of the potential accident situation with special emphasis upon school setting, planning for and conduct of a safety education program.

HPEB 470 - Principles of Global Health (3 Credits)
Examination of major global health topics and approaches used by governmental, non-governmental, international institutions and donor agencies to improve health in low and middle income countries. Critical analysis and generation of intervention strategies to combat health issues in various country settings.

**Graduation with Leadership Distinction:** GLD: Global Learning

HPEB 471 - Social Determinants of Health (3 Credits)
The social, cultural, economic, and political factors that influence health and its distribution within and between populations. How society helps shape our health beliefs, behaviors, and status.

HPEB 488 - Food Systems (3 Credits)
Multiple dimensions of food systems along multiple dimensions of theory and practice. Restricted to Junior or Senior level standing.

**Prerequisites:** 12 hours of minor completed and ECON 101.

HPEB 489 - Food Systems Capstone Seminar (3 Credits)
Synthesis and application of content and competencies of the minor in nutrition and food systems in a practical setting with emphasis on student identified areas for professional growth. Restricted to Senior level standing.

**Prerequisites:** HPEB 488.
HPEB 492 - Special Topics in Health Promotion, Education, and Behavior (3 Credits)
A study of special topics in health promotion, education, and behavior. Individual topics to be announced in master schedule by title.

HPEB 501 - Human Sexuality Education (3 Credits)
Planning, implementation and evaluation of effective sexuality education programs. Includes strategies for educating about a variety of sexuality topics (e.g., reproductive biology, relationships, HIV/AIDS, sexual orientation, pregnancy, childbirth, and parenting).

HPEB 502 - Applied Aspects of Human Nutrition (3 Credits)
Application of nutrition principles including functions of food and nutrients in health and disease prevention throughout the life cycle. Applied topics include weight management, food safety, and other contemporary issues.
Graduation with Leadership Distinction: GLD: Community Service

HPEB 511 - Health Problems in a Changing Society (3 Credits)
Current and emerging health problems in society: causes, effects, and prevention.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy

HPEB 512 - Southern Discomfort: Public Health in the American South (3 Credits)
Investigation of the unique health and disease profile of the American South, including regional disparities that remain unresolved despite a public health revolution. Topics range from endemic diseases of the antebellum period to the current HIV/AIDS crisis, and ethics of research.

HPEB 513 - Race, Ethnicity, and Health: Examining Health Inequalities (3 Credits)
A comprehensive overview of race/ethnicity and health. Class discussions will focus on comparing health status and health outcomes of different racial/ethnic groups in the U.S. and discussing possible explanations for inequalities from a behavioral science perspective.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy

HPEB 521 - The Total School Health Program (3 Credits)
A course designed to acquaint the student with the various facets of the modern school health program. Includes school responsibilities for health and safety instruction, school health services, school environmental health problems, school and community relationships, resources for health, and evaluation of programs.

HPEB 540 - Drug Prevention (3 Credits)
Nature of drug actions, motivational factors that influence the use and abuse of drugs, and examination and evaluation of procedures to provide effective drug prevention efforts.

HPEB 542 - Tobacco Prevention and Control in Public Health (3 Credits)
Examines policies and practices for tobacco prevention and control in public health.

HPEB 547 - Consumer Health in Contemporary Society (3 Credits)
An analysis and appraisal of issues related to the production and distribution of products and services as these activities affect consumer health.

HPEB 550 - Behavioral Concepts and Processes for the Health Professional (3 Credits)
The development of interpersonal skills in dealing with health clients in various settings.

HPEB 551 - Medical Anthropology: Field Work (3 Credits)
Application of observation techniques, field notes, informant interviewing, and secondary data analysis to interpreting differential perceptions of health problem solving in the community and clinic.

HPEB 552 - Medical Anthropology (3 Credits)
Socio-cultural factors in health, illness, healing, and in medical systems. Cross-cultural and ethnographic evidence for public health research and program applications.
Cross-listed course: ANTH 552
Graduation with Leadership Distinction: GLD: Research

HPEB 553 - Community Health Problems (3 Credits)
Identification and analysis of major community health problems, their causes, the roles of individuals, community agencies, and government in affecting their solutions. Emphasis upon personal involvement and the responsibility for community health.
Graduation with Leadership Distinction: GLD: Community Service

HPEB 555 - Managing Stress (3 Credits)
Conceptualizing the nature of the stress; psychological, emotional, and spiritual aspects of stress; competency in the active management of stress and mobilizing support.

HPEB 560 - Cooking Up a Storm: Food, Globalization, Localization, and Health in the South (3 Credits)
The role of food in defining our relationships to our family, community, nation, and world. How food underlies much of the political, economic, and social struggles throughout the world.

HPEB 620 - Nutrition Through the Life Cycle (3 Credits)
Examination of nutritional concerns, requirements, and metabolism from pre-conception through the aging process: analysis of cultural, environmental, psychosocial, physical, and economic factors affecting nutritional status through the life cycle; and methods for assuring adequate nutrition through dietary selection, promotion of healthy eating throughout the life cycle and nutritional assessment for each state of the life cycle.

HPEB 621 - Maternal and Child Health (3 Credits)
Public health issues, social and behavioral science, policies, programs, and services related to maternal and child health in the United States and other countries.
Cross-listed course: WGST 621
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

HPEB 627 - Lesbian, Gay, Bisexual and Transgender (LGBT) Health (3 Credits)
Health status and concerns of lesbian, gay, bisexual, and transgender communities. Includes an examination of measurement issues and methodological considerations in research, as well as intervention efforts targeting LGBT populations.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HPEB 631 - Health Promotion for Elementary and Middle School Teachers (3 Credits)
A multimedia course emphasizing health education strategies for major S.C. health problems, risk factors, and concepts of positive health behavior.

HPEB 640 - Behavioral Economics in Public Health (3 Credits)
The ways behavioral economics can help achieve goals in public health and health care. How behavioral insights can be applied to reach promotion aims ranging from achieving weight loss to medication adherence to appointment attendance.
HPEB 653 - Nutrition Assessment and Counseling (3 Credits)
Assessment of nutritional outcomes and work with research participants/patients. Methods for collection of dietary data, anthropometry, and body composition, including the use of new technologies. Nutrition counseling and interviewing techniques useful in gathering nutrition information.

HPEB 654 - Maternal and Child Nutrition (3 Credits)
A survey of current concepts in clinical and public health nutrition which are unique to infants, children, and pregnant and lactating women.

HPEB 674 - Social Networks, Social Capital, and Health (3 Credits)
Examination of health sciences and sociological research on social networks, social capital, and health. Theoretical and methodological foundations for network analysis of social relationships and health, design of public health interventions, and use of online social networks to promote health. Key constructs include social support, social capital, and social diffusion.

HPEB 679 - Addressing Childhood Obesity through Community Approaches (2 Credits)
Approaches for prevention of childhood obesity, using perspectives from public health, social work, exercise science, pharmacy, medicine, and behavioral nutrition. Training to teach diet/physical activity lessons in elementary school settings. Cross-listed course: SOWK 679

HPEB 680 - Laboratory Techniques in Physiological Measurement (3 Credits)
Practical laboratory skills and theoretical bases of measurements in human physiology; bioelectrical potentials, respiratory physiology, energy expenditure, body composition, temperature regulation, and biochemical assays.

HPEB 683 - Contemporary Topics in Sexual Health (3 Credits)
Comprehensive overview of contemporary topics in sexual health.

HPEB 684 - HIV/STI Prevention (3 Credits)
The role of effective behavioral interventions in preventing the spread of the human immunodeficiency virus (HIV) and other sexually transmitted infections (STI) among diverse populations. Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Research

HPEB 690 - Independent Study (1-6 Credits)
Topics to be assigned and approved by advisor and department head.

**Health Promotion, Education, and Behavior Minor**

The minor in Health Promotion, Education and Behavior (HPEB) requires a minimum of 18 credit hours. This minor provides a basic foundation for students desiring preparation in health promotion, health education, health behavior change, and disease prevention. The minor in HPEB may be used in combination with many majors to enhance student’s career opportunities and as preparation for graduate study in a variety of health and health-related disciplines. The HPEB minor is compatible with various majors such as, but not limited to: exercise science, psychology, sociology, anthropology, political science and international studies, nursing, women’s studies, physical education, and instruction and teacher education.

**Minor Requirements**

To enroll in the HPEB minor, students must have a minimum 2.75 GPA. A minimum of 18 credit hours is required from the following curriculum. Students must complete courses with a grade of “C” or higher.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPEB 300</td>
<td>Introduction to Health Promotion, Education, and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HPEB 553</td>
<td>Community Health Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select one course on the topic of “Special Populations” from the following:

- WGST 113 Women’s Health
- SOCY 313 Sociology of Aging
- WGST 388 Cultures, Pregnancy, and Birth
- HPEB 512 Southern Discomfort: Public Health in the American South
- HPEB 513 Race, Ethnicity, and Health: Examining Health Inequalities
- HPEB 621 Maternal and Child Health
- HPEB 627 Lesbian, Gay, Bisexual and Transgender (LGBT) Health

Select one course on the topic of “Health and Health Behaviors” from the following:

- PSYC 300 Human Sexual Behavior
- PSYC 465 Health Psychology
- SOCY 360 Sociology of Medicine and Health
- HPEB 335 First Aid and Emergency Preparedness
- HPEB 501 Human Sexuality Education
- HPEB 502 Applied Aspects of Human Nutrition
- HPEB 521 The Total School Health Program
- HPEB 540 Drug Prevention
- HPEB 542 Tobacco Prevention and Control in Public Health
- HPEB 620 Nutrition Through the Life Cycle
- HPEB 654 Maternal and Child Nutrition
- HPEB 684 HIV/STI Prevention

Select one course on the topic of “General Concepts in Health Promotion” from the following:

- SOCY 310 Social Demography
- SOCY 315 Global Population Issues
- HPEB 301 Practicum in Health Promotion
- HPEB 321 Personal and Community Health
- HPEB 470 Principles of Global Health
- HPEB 488 Food Systems
- HPEB 511 Health Problems in a Changing Society
- HPEB 547 Consumer Health in Contemporary Society
- HPEB 550 Behavioral Concepts and Processes for the Health Professional
- HPEB 551 Medical Concepts and Processes for the Health Professional
- HPEB 552 Medical Anthropology

**Additional Course**

Select an additional course from one of the three focus areas listed above:

- [List of additional courses]

**Undergraduate 459**
Nutrition and Food Systems Minor

The minor in Nutrition and Food Systems requires a minimum of 18 credit hours. This minor will meet student interests in nutrition and food systems by offering courses that focus on the production, processing, retail, consumption, and disposal of food. The Nutrition and Food Systems minor is compatible with various majors such as, but not limited to: exercise science, psychology, sociology, anthropology, political science and international studies, nursing, women's studies, physical education, and instruction and teacher education. A minimum of 18 credit hours is required from the following curriculum. Students must complete courses and instruction and teacher education. A minimum of 18 credit hours is required from the following curriculum. Students must complete courses with a grade of "C# or higher. Another approved course on the topic of "Sustainability" must be completed prior to enrolling in the "Food and Environment," "Nutrition," and "Sustainability" topics to reach the required 18 hours in the minor.

Minor Requirements (18 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HPEB 488</td>
<td>Food Systems</td>
<td>3</td>
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<tr>
<td>HPEB 489</td>
<td>Food Systems Capstone Seminar</td>
<td>3</td>
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<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<td>3</td>
</tr>
<tr>
<td>ENVR 101</td>
<td>Introduction to the Environment</td>
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<tr>
<td>ENVR 323</td>
<td>Global Environmental Health</td>
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<tr>
<td>GEOG 210</td>
<td>Peoples, Places, and Environments</td>
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<tr>
<td>GEOG 346</td>
<td>Climate and Society</td>
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<tr>
<td>GEOG 348</td>
<td>Biogeography</td>
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<tr>
<td>GEOG 371</td>
<td>Air Pollution Climatology</td>
<td></td>
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<tr>
<td>ANTH 212</td>
<td>Food and Culture</td>
<td></td>
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<tr>
<td>HPEB 502</td>
<td>Applied Aspects of Human Nutrition</td>
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<tr>
<td>HPEB 620</td>
<td>Nutrition Through the Life Cycle</td>
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<tr>
<td>HPEB 654</td>
<td>Maternal and Child Nutrition</td>
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<tr>
<td>Select one of the following:</td>
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<td>3</td>
</tr>
<tr>
<td>ENVR 331</td>
<td>Integrating Sustainability</td>
<td></td>
</tr>
<tr>
<td>HRTM 428</td>
<td>Sustainable Foodservice Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 313</td>
<td>Economic Geography</td>
<td></td>
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<tr>
<td>GEOG 321</td>
<td>Sustainable Cities</td>
<td></td>
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<tr>
<td>GEOG 343</td>
<td>Environment and Society</td>
<td></td>
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<tr>
<td>GEOG 347</td>
<td>Water as a Resource</td>
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<tr>
<td>Another approved course on the topic of &quot;Sustainability&quot;</td>
<td>3</td>
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</table>

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

Health Services Policy and Management

Department Website (https://www.sc.edu/study/colleges_schools/public_health/study/areas_of_study/health_services_policy_and_management/)

M. Mahmud Khan, Chair

The Department of Health Services Policy and Management promotes individual and community health through improvements in the organization and management of public health and health care delivery. The department offers the Master of Public Health (M.P.H.), the Master of Health Administration (M.H.A.), and three dual degrees: the Master of Science in Nursing/Master of Public Health (M.S.N./M.P.H.), the Master of Social Work/Master of Public Health (M.S.W./M.P.H.), and the Juris Doctor/Master of Health Administration (J.D./M.H.A.). Two doctoral programs are offered: the Doctor of Philosophy (Ph.D.) and the Doctor of Public Health (Dr.P.H.).

The Department of Health Services Policy and Management does not offer an undergraduate major at this time.

Courses

HSPM 401 - Independent Study (3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor. Graduation with Leadership Distinction: GLD: Research

HSPM 412 - Health Economics (3 Credits)
Designed to serve as an introduction to economic principles and applications used in the health sector. The role economics plays in various aspects of health care, demand-side and supply-side factors and issues, how various health care systems are impacted.

HSPM 491 - Special Topics in Health Services Policy and Management (3 Credits)
Emerging issues in Health Services Policy and Management. May be repeated for a total of 6 credit hours as content varies by title.

HSPM 500 - Introduction to Health Care Management and Organization (3 Credits)
Provide students with overview of health services management, management techniques and the different roles and functions of the different health care services. Use of field trips and guest speakers from different health care providers. Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

HSPM 509 - Fundamentals of Rural Health (3 Credits)
Overview of the delivery and financing of health care in the rural U.S., with emphasis on vulnerable rural populations and access to care. Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy
HSPM 510 - Comparative Health Systems and Health System Efficiency, Effectiveness, Sustainability and Equity (3 Credits)
Comparative health systems of the world including health system organization, management, financing, resource use and health outcomes.

HSPM 513 - Issues in Health Care Information Management (3 Credits)
An introduction to data management in healthcare institutions for undergraduate students and non-HSPM major graduate students. Topics include the nature of medical data, legal protections surrounding such information, and basis strategies for managing information technology resources.
Prerequisites: HSPM 500.

HSPM 514 - Introduction to Health Services Delivery and Policy (3 Credits)
Overview of health services delivery in the United States, including organization and financing of health care, health insurance practices, primary and long-term care among other topics.

HSPM 530 - Finance in Health Administration (3 Credits)
Introduction to health care finance. Course will teach reimbursement structures, regulatory mechanisms, cost control, and related factors unique to healthcare organizations.
Prerequisites: BADM 225.

Public Health Programs (Division of Academic Affairs)

Department Website (http://www.sph.sc.edu/)

The Division of Academic Affairs administers several interdisciplinary programs in the Arnold School, including the B.A. and B.S in public health.

Programs of Study
The Arnold School of Public Health offers both the Bachelor of Arts (B.A.) degree and the Bachelor of Science (B.S.) degree with a major in public health. These degrees are designed to provide a broad liberal undergraduate education that includes a general understanding of public health, instills a strong sense of values, and provides the capacity to adapt acquired knowledge and abilities to address new challenges. These programs provide the student with two paths to a broad pre-professional education. In addition to general education and public health-related coursework, the B.A. curriculum will prepare undergraduate students through rigorous study of the social and behavioral sciences for entry into social science-based graduate programs and schools of law. Students in the B.S. major will receive the same general and public health core courses and, will take courses in the natural sciences leading potentially to graduate work in the public health laboratory sciences or study in the field of medicine.

Entrance Requirements
Incoming freshmen who meet University of South Carolina admissions standards are eligible for admission to the degree programs offered by the Arnold School of Public Health. Transfer admission requires school approval as well as prerequisite conditions.

Transfer Admission
1. Students from other USC campuses who have completed fewer than 30 semester hours must also meet Columbia campus freshman admission requirements.

2. Transfer students from regionally accredited institutions must present a minimum cumulative GPA of 2.75 on all college work taken. Students who have fewer than 30 semester hours of college work must also meet Columbia campus freshman admission requirements.

Retention and Progression Standards
1. If the semester, yearly, or cumulative grade point average of a student is below 2.00, the student will be notified in writing.
2. A public health major must receive a grade of C or higher in any course in order for it to serve as a prerequisite.
3. A student in public health must earn a grade of C or higher in all required major course work and in required cognates.
4. A public health major may attempt any required major course work, cognates and any prerequisites a maximum of two times to fulfill the requirement. A grade of W will be included as an attempt.
5. A public health major may repeat a maximum of three public health required courses.

Attendance Requirements
Students enrolled in public health are subject to attendance regulations of the University described elsewhere in the bulletin. When a student enrolls in a particular course, the student is obligated for all the work which may be assigned. Punctual and regular attendance is vital to the discharge of this obligation. The student is responsible for all assigned work in a course, and absences, excused or not, do not absolve the student of this responsibility.

Minors
Students majoring in public health may pursue minors as offered by other units. In completing minors, students may apply advisor-approved courses to both the minor and the cognate or elective requirements.

Programs
• Public Health, B.A. (p. 462)
• Public Health, B.S. (p. 463)

Courses
PUBH 302 - Introduction to Public Health (3 Credits)
An introduction to the history, theory, and practice of public health. Emphasis will be on the population perspective and the ecological model including the population impacts of health care systems.
PUBH 399 - Independent Study in Public Health (1-3 Credits)
Contract approved by instructor, advisor, and dean of the Arnold School is required for undergraduate students. May be repeated for up to 6 credits.
PUBH 492 - Special Topics in Public Health (3 Credits)
Issues and emerging themes in public health. May be repeated for a total of 9 credit hours as content varies by title.
PUBH 498 - Public Health Capstone Seminar (3 Credits)
Synthesis and application of BS/BA public health program content and competencies in a practice setting with emphasis on student identified areas for professional growth.
Prerequisites: PUBH 302.

Graduation with Leadership Distinction: GLD: Community Service
Experiential Learning: Experiential Learning Opportunity
PUBH 499 - Foundations of Public Health Leadership (3 Credits)
An introduction to core principles in public health leadership. Areas included are ethics, public health issues, communication issues, leadership competencies, and leadership values.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PUBH 678 - Transforming Health Care for the Future (1 Credit)
Foundation for beginning health professions students to gain an understanding of the complexities of the health care system through experiential activities conducted in interprofessional teams and the importance of interprofessional collaboration in order to improve the system.
Cross-listed course: SOWK 678

Public Health, B.A.

Learning Outcomes
• Students will illustrate the contributions of a range of disciplines and professions in improving the health of the public.
• The student will demonstrate the ability to utilize information from various contexts in the field of public health.
• Students will understand the role of the socio-behavioral sciences in the determinants of and prevention of public health problems; understand and discuss the importance and influence of social and cultural factors and their effects on public health; and explain how public health can utilize social and behavioral interventions to improve the health of populations.
• Student will understand the role of the physical and natural sciences in the determinants of and relationship to problems in the health of the public.
• The student will discuss individual and social accountability including civic responsibility and ethical reasoning as they apply to the health of populations.
• The student will use suitable technologies, scientific inquiry skills and communication strategies to conduct ethical research on public health issues.
• The student will demonstrate proficient reasoning and critical thinking including the ability to analyze, synthesize and evaluate information to make sound decisions and solve problems as they apply to public health.

Admission Requirements
Incoming freshmen who meet University of South Carolina admissions standards are eligible for admission to the degree programs offered by the Arnold School of Public Health. Transfer admission requires school approval as well as prerequisite conditions detailed with the specific programs.

Degree Requirements (120 hours)
See Arnold School of Public Health (p. 448) for progression requirements and other regulations.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>12-15</td>
</tr>
</tbody>
</table>

3. Program Requirements 38-53
4. Major Requirements 24

1. Carolina Core Requirements (31-43 hours)
CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
*must be passed with a grade of C or higher*
• ENGL 101
• ENGL 102

ARP – Analytical Reasoning and Problem Solving (6 hours)
*must be passed with a grade of C or higher*
• STAT 110
• STAT 201 or STAT 205

SCI – Scientific Literacy (7 hours)
• Two approved Carolina Core Scientific Literacy courses (p. 743) from the natural sciences, including one laboratory science

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Students shall demonstrate in one foreign language the ability to comprehend the topic and main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.
• CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
*must be passed with a grade of C or higher*
• PSYC 101

AIU – Aesthetic and Interpreive Understanding (3 hours)
• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)
VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (12-15 hours)

Must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPID 410</td>
<td>Principles of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 191</td>
<td>Physical Activity and Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 302</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 101</td>
<td>Introductory Sociology</td>
<td>3</td>
</tr>
<tr>
<td>UNIV 101</td>
<td>The Student in the University (transfer students are not required to take this course)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 15

3. Program Requirements (38-53 hours)

Supporting Courses (6 hours)

Must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102</td>
<td>Understanding Other Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

Cognates (24 hours)

Must be passed with a grade of C or higher

Each student must complete two cognates of 12 credit hours each. The cognates are intended to support the course work in the major. Depending on student interests, cognate courses may be selected from one or several units. A cognate differs from a minor in that the courses must be 300 level or above and may be distributed over more than one subject area. Courses applied toward minimum Carolina Core requirements cannot be counted toward either cognate. All cognate courses must be approved by the student's academic advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined here (p. 465).

Minor (18 hours) optional

Students majoring in Public Health may pursue minors offered by other units. In completing a minor, students may apply advisor-approved courses to both the minor and cognate, or elective requirements.

Electives (8-23 hours)

Students in Public Health must complete a minimum of 120 credit hours. Depending on specific course choices, students must complete an appropriate number of elective courses.

4. Major Requirements (24 hours)

Major Courses (24 hours)

A minimum grade of C is required in all major courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENHS 321</td>
<td>Environmental Pollution and Health</td>
<td>3</td>
</tr>
<tr>
<td>HPEB 300</td>
<td>Introduction to Health Promotion, Education, and Behavior</td>
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<td>or EXSC 410</td>
<td>Psychology of Physical Activity</td>
<td></td>
</tr>
<tr>
<td>PUBH 498</td>
<td>Public Health Capstone Seminar (Carolina Core Integrative Course, Public Health, BA, BS)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 24

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Public Health, B.A.

Public Health, B.S.

Learning Outcomes

- Students will illustrate the contributions of a range of disciplines and professions in improving the health of the public.
- The student will demonstrate the ability to utilize information from various contexts in the field of public health.
- Students will understand the role of the socio-behavioral sciences in the determinants and prevention of public health problems; understand and discuss the importance and influence of social and cultural factors and their effects on public health; and explain how public health can utilize social and behavioral interventions to improve the health of populations.
- Student will understand the role of the physical and natural sciences in the determinants of and relationship to problems in the health of the public.
- The student will discuss individual and social accountability including civic responsibility and ethical reasoning as they apply to the health of populations.
- The student will use suitable technologies, scientific inquiry skills and communication strategies to conduct ethical research on public health issues.
- The student will demonstrate proficient reasoning and critical thinking including the ability to analyze, synthesize and evaluate
information to make sound decisions and solve problems as they apply to public health.

Admission Requirements
Incoming freshmen who meet University of South Carolina admissions standards are eligible for admission to the degree programs offered by the Arnold School of Public Health. Transfer admission requires school approval as well as prerequisite conditions detailed with the specific programs.

Degree Requirements (120 hours)
See Arnold School of Public Health (p. 448) for progression requirements and other regulations.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>12-15</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>32-44</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>32</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*Must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

*Must be passed with a grade of C or higher*

- MATH 122 or MATH 141
- STAT 201 or STAT 205

SCI – Scientific Literacy (8 hours)

*Must be passed with a grade of C or higher*

- BIOL 101
- BIOL 101L
- BIOL 102
- BIOL 102L

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Students shall demonstrate in one foreign language the ability to comprehend the topic and main ideas in written and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. This ability can be demonstrated by achieving a score of two or better on a USC foreign language test. Those failing to do so must satisfactorily complete equivalent study of foreign language at USC.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

*Must be passed with a grade of C or higher*

- PSYC 101

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. At least one of these requirements must be satisfied by a course not applied elsewhere in general education. (3-9 Hours)

2. College Requirements (12-15 hours)

*Must be passed with a grade of C or higher*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPID 410</td>
<td>Principles of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 191</td>
<td>Physical Activity and Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 302</td>
<td>Introduction to Public Health</td>
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<td>UNIV 101</td>
<td>The Student in the University (transfer students are not required to take this course)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 15

3. Program Requirements (32-44 hours)

Supporting Courses (20-21 hours)

*Must be passed with a grade of C or higher*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111L</td>
<td>General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 201L</td>
<td>General Physics Laboratory I</td>
<td>1</td>
</tr>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 112 &amp; 112L</td>
<td>General Chemistry II and General Chemistry II Lab</td>
<td>4</td>
</tr>
</tbody>
</table>
Undergraduate 465

PHYS 202 & 202L
General Physics II and General Physics Laboratory II

Total Credit Hours 12

Program Electives (8-9 hours): Each student must complete 8-9 credit hours of related courses (300 level or above) to support coursework in the major. All major specific electives must be approved by the student’s academic advisor. A minimum grade of C in these courses is required.

Courses offered by departments and programs that are acceptable for program elective credit are outlined here (p. 465).

Natural Science Cognate (12 hours)
Must be passed with a grade of C or higher

Each student must complete a cognate of 12 credit hours of natural and physical sciences. The cognate is intended to support the course work in the major. Depending on student interests, cognate courses may be selected from one or several units. A cognate differs from a minor in that the courses must be 300 level or above and may be distributed over more than one subject area. Courses applied toward minimum Carolina Core requirements cannot be counted toward the cognate. All cognate courses must be approved by the student’s academic advisor.

Minor (18 hours) optional
Students majoring in Public Health may pursue minors offered by other units. In completing a minor, students may apply advisor-approved courses to both the minor and cognate, or elective requirements.

Electives (0-12 hours)
Students in Public Health must complete a minimum of 120 credit hours. Depending on specific course choices, students must complete an appropriate number of elective courses.

4. Major Requirements (32 hours)
A minimum grade of C is required in all major courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>ENHS 321</td>
<td>Environmental Pollution and Health</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 223</td>
<td>Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 223L</td>
<td>Anatomy and Physiology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EXSC 224</td>
<td>Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>EXSC 224L</td>
<td>Anatomy and Physiology II Lab</td>
<td>1</td>
</tr>
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<td>HPEB 300</td>
<td>Introduction to Health Promotion, Education, and Behavior</td>
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</tr>
</tbody>
</table>

Total Credit Hours 32

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Public Health, B.S.

Courses Acceptable for Cognate Credit in the Arnold School of Public Health

Accounting (ACCT): all numbered 300 and above
Aerospace Studies (AERO): all numbered 300 and above
African American Studies (AFAM): all
Anthropology (ANTH): all numbered 200 and above
Arabic (ARAB): all numbered 300 and above
Army/Military Science (ARMY): all numbered 300 and above
Art Education (ARTE): all numbered 300 and above
Art History (ARTH): all numbered 300 and above
Art Studio (ARTS): all numbered 200 and above
Astronomy (ASTR): all numbered 300 and above
Biological Sciences (BIOL): all numbered 300 and above
Chemistry (CHEM): all numbered 321 and above
Chinese (CHIN): all numbered 300 and above
Classics (CLAS): all
Communication Sciences and Disorders: all numbered 300 and above
Comparative Literature (CPLT): all numbered 300 and above
Computer Science (CSCE): all numbered 145 and above
Criminology and Criminal Justice (CRJU): all numbered 311 and above
Dance (DANC): all numbered 300 and above
Economics (ECON): all numbered 300 and above
Education (EDCE, EDEC, EDEL, EDET, EDEX, EDFN, EDLP, EDML, EDPY, EDRD, EDRM, EDSE, EDTE, PEDU): all numbered 300 and above except directed teaching courses and seminars
Engineering (BMEN, ECHE, ECIV, ELCT, EMCH, ENCP): all numbered 200 and above
English (ENGL): all numbered 300 and above
Environment and Sustainability (ENVR): all numbered 231 and above
European Studies (EURO): all numbered 300 and above
Exercise Science (EXSC): all numbered 300 and above
Film and Media Studies (FAMS): all numbered 200 and above
Finance (FINA): all numbered 300 and above
Foreign Language (FORL): all numbered 300 and above except directed teaching courses and seminars
French (FREN): all numbered 300 and above
Geography (GEOG): all numbered 200 and above
Geology (GEOL): all numbered 202 and above
German (GERM): all numbered 300 and above
Greek (GREK): all numbered 300 and above
Health Promotion, Education and Behavior (HPEB): all numbered 300 and above except HPEB 335
History (HIST): all numbered 300 and above
Hotel, Restaurant, and Tourism Management (HRTM): all numbered 300 and above
Integrated Information Technology (ITEC): all numbered 300 and above
International Business (IBUS): all numbered 300 and above
Italian (ITAL): all numbered 300 and above
Japanese (JAPA): all numbered 300 and above
Jewish Studies (JSTU): all numbered 300 and above
Journalism (JOUR): all numbered 300 and above
Latin (LATN): all numbered 300 and above
Latin American Studies (LASP): all
Library and Information Science (SLIS): all numbered 300 and above
Linguistics (LING): all numbered 300 and above
Management (MGMT): all numbered 371 and above except MGMT 499
Management Science (MGSC): all numbered 300 and above except MGSC 498
Marine Science (MSCI): all numbered 215 and above
Marketing (MKTG): all numbered 300 and above
Mathematics (MATH): all numbered 241 and above except MATH 401
Media Arts (MART): all numbered 200 and above
Music (MUSC): MUSC 115, MUSC 116, MUSC 145 and all numbered 200 and above
Naval Science (NAVY): all numbered 300 and above
Nursing (NURS): all numbered 200 and above
Pharmacy: all numbered 300 and above
Philosophy (PHIL): all numbered 200 and above
Physics (PHYS): all numbered 212 and above
Political Science (POLI): all numbered 300 and above
Portuguese (PORT): all numbered 300 and above
Psychology (PSYC): all numbered 300 and above
Religious Studies (RELG): all numbered 300 and above
Retailing (RETL): all numbered 300 and above
Russian (RUSS): all numbered 300 and above
SC Honors College (SCHC): pending advisor approval
Social Work (SOWK): all numbered 300 and above
Sociology (SOCY): all numbered 300 and above
Southern Studies (SOST): all numbered 300 and above
Spanish (SPAN): all numbered 300 and above
Speech (SPCH): all numbered 200 and above
Sport and Entertainment Management (SPTE): all numbered 300 and above
Statistics (STAT): all numbered 300 and above
Theatre (THEA): all numbered 230 and above
Women's and Gender Studies (WGST): all numbered 300 and above
The challenge of 21st-century communications is to combine the information gathering function—research and data bases—with the disciplines of disseminating information—journalism, advertising, public relations, visual communications, and mass communications.

The college’s School of Journalism and Mass Communications is professionally oriented and grounded strongly in the liberal arts. It offers instruction at the undergraduate and graduate levels. Course work is offered in electronic and print journalism, advertising, public relations, visual communications, and mass communications to train students in both the processes and effects of mass communication.

The School of Library and Information Science offers a bachelor’s degree in information science and graduate-level programs that support the development of library and information services as an essential element in information science and graduate-level programs that support the development of library and information services as an essential element of cultural enrichment. It provides a professional education for students entering into libraries and information centers in colleges, schools, communities, industries, and businesses.

Together, the schools will also develop a core research base for examining the practices of communications and the teaching of these disciplines. Both schools have long had admirable records of placing their graduates in newsrooms, advertising agencies, libraries, and academic institutions in and beyond South Carolina.

Schools
- School of Journalism and Mass Communications (p. 467)
- School of Library and Information Science (p. 489)

The School of Journalism and Mass Communications bridges practice and research, preparing the next generation of mass communication practitioners and scholars to communicate clearly, concisely, creatively and with integrity—ultimately advancing the communications professions in a democratic society.

As a professional school grounded strongly in the liberal arts, the School of Journalism and Mass Communications emphasizes the value of a broad educational foundation as well as proficiency in mass communication skills. The school is accredited by the Accrediting Council on Education in Journalism and Mass Communications and offers instructional programs at the undergraduate and graduate levels.

Both the undergraduate and graduate programs provide a myriad of experiences for students, no matter which area of journalism and mass communication education interests them. The school's curricula, at the undergraduate and graduate levels, are carefully tailored to prepare students for an increasingly multinational and multicultural multimedia work environment.

Progression Requirements
Each student within the school is expected to make orderly progress toward a baccalaureate degree. To facilitate this, the school’s undergraduate program is divided into upper and lower divisions.

1. Lower-division students are those who have earned fewer than 60 semester hours toward the degree or who do not meet admission requirements to the upper division. Lower-division students may not enroll in upper-division journalism courses, which include all 500-level courses.

2. Admission to the upper division is based upon a minimum 2.50 cumulative USC GPA; completion of JOUR 101 and JOUR 291 with grades of C or higher; completion of 60 or more semester hours toward the degree; completion of foreign language requirement; selection of a particular program of study within the college; and selection and approval of a minor.

3. Entrance into 300+ level upper-division skills courses in broadcast journalism and journalism is competitive and is not guaranteed. Students can declare a major at any time. However, they must formally apply for admission into broadcast journalism and journalism upper-division skills courses. Typically, students are encouraged to apply the semester they are enrolled in JOUR 291. Applications are due October 1 (for spring admission) and March 1 (for fall admission).

Applications will NOT be accepted after established deadlines. Admission is based on strength of the student’s letter of interest and USC GPA. Students may also be asked to interview with a selection committee (members of which are selected by the journalism sequence chair). Students who do not meet established requirements may reapply the following semester. Students accepted into 300+ level upper-division skills courses in broadcast journalism and journalism are assigned a specific semester in which they will begin this course work. Students are expected to proceed through these courses in consecutive semesters, beginning with JOUR 361.

4. All students must maintain a minimum 2.50 GPA in USC courses in order to maintain good standing in the school. Grades will be
reviewed at the end of each semester. Students who have less than a 2.50 GPA in USC work are not in good standing and will be placed on probation within the school. Students will be permitted to remain in the school while on probation for only one semester, after which the student will be administratively removed from the school if their cumulative USC GPA is less than a 2.50. With the exception of upper-division courses, students may continue to take course work toward their degree if seats are available.

5. All majors within the school will be expected to pass all journalism and mass communications courses used toward the degree with a minimum grade of C.

6. No journalism and mass communications course may be repeated more than once by any student unless formally approved by the school petition committee.

Second Degree

Students from other USC colleges who expect to obtain a second baccalaureate degree from the School of Journalism and Mass Communications must meet regular admission and progression requirements of the school, must be assigned a journalism advisor, and must formally apply to and be accepted by the school not later than the next-to-the-last semester in which the student expects to receive the journalism degree.

Classes

In all journalism and mass communications classes, enrollment priority will be given to journalism and mass communications majors who are in good academic standing in the school.

Suspension

All students within the school are subject to the University suspension rules as stated in the bulletin. Students whose UofSC GPA is less than 2.50 at the time of their suspension, may petition to be readmitted on a probationary status with conditions of probation determined by the director of the school.

Graduation

All students admitted to the School of Journalism and Mass Communications as of August 19, 2004, and thereafter, must have a minimum 2.50 GPA on all UofSC and cumulative work attempted, in addition to meeting all academic degree requirements, in order to obtain a degree from the college.

Programs and Courses

The School of Journalism and Mass Communications offers six programs of study.

All programs of study are accredited by the Accrediting Council on Education for Journalism and Mass Communications. The degree offered by the school is the Bachelor of Arts in Journalism and Mass Communications.

Programs

- Advertising and Public Relations Minor (p. 473)
- Advertising, B.A.J.M.C. (p. 474)
- Broadcast Journalism, B.A.J.M.C. (p. 476)
- Journalism, B.A.J.M.C. (p. 479)
- Mass Communications Minor (p. 481)
- Mass Communications, B.A.J.M.C. (p. 481)

- Public Relations, B.A.J.M.C. (p. 484)
- Sports Media Minor (https://academicbulletins.sc.edu/undergraduate/information-communications/journalism-mass-communications/sports-media-minor/)
- Visual Communications, B.A.J.M.C. (p. 487)

Courses

JOUR 101 - Media and Society (3 Credits)
Principles, history, philosophies, theories of the mass media and allied professions and their societal role and impact.

JOUR 201 - Principles of Public Relations (3 Credits)
Methods used by business, government, consumer groups, minorities, environmentalists, and others to influence public attitudes toward their activities.

JOUR 202 - Principles of Advertising and Brand Communications (3 Credits)
An introduction to the advertising and strategic communications industries. Discussion of the structure and history of the business, social impacts and regulation, research, planning, creative, media planning, sales promotion, event promotion and the integrated nature of all promotional communication.

JOUR 203 - Principles of Visual Communications (3 Credits)
Theory and history of visual communication in the mass media emphasizing informational and persuasive messages created by graphic, photographic, and multimedia processes.

JOUR 204 - Principles of Journalism (3 Credits)
Principles and foundations of journalism to reflect both how journalism serves communities and how its techniques are developed to effectively communicate to audiences.

JOUR 205 - History and Philosophy of the Mass Media (3 Credits)
Development of the mass media in the United States from colonial times to the present. The effects of American social, cultural, political, and economic theory on the media.

JOUR 215 - Special Topics in Mass Communications (3 Credits)
Readings, critical review, discussion and analysis addressing significant issues in mass communications. Topics may change from term to term. May be repeated for credit with different course topics.

JOUR 220 - Account Planning: Mining Insights (3 Credits)
Topics include data mining from secondary sources, and use of primary research tools such as surveys, focus groups, ethnography and projective techniques.

Prerequisites: JOUR 101 and STAT 201 or equivalent.

Graduation with Leadership Distinction: GLD: Research

JOUR 244 - Special Topics in Sports Media (3 Credits)
Topics addressing issues in the world of the sports media. Topics may change from term to term. May be repeated for credit with different topics.

JOUR 245 - Live Television Sports Production (3 Credits)
This course is designed to introduce students to all aspects of live television production of various venue sporting events. Through readings, lectures and hands-on experience, students will learn how major broadcast networks produce live sports events.

JOUR 261 - Journalism Trends (3 Credits)
Study and analysis of current and emerging issues in journalism philosophy and practice and how audiences perceive it. Emphases may change as practices evolve and issues emerge.
JOUR 291 - Writing for Mass Communications (3 Credits)
Basic writing skills for all areas of the mass media. Lecture-laboratory.
Prerequisites: C or better in ENGL 101 and ENGL 102.

JOUR 303 - Law and Ethics of Mass Communications (3 Credits)
Examination of First Amendment free speech and press guarantees and limitations, including commercial speech regulation, libel, privacy, copyright, trademark and open records and meetings, and related ethical principles for mass communications professionals.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 304 - Internet and Social Media Law (3 Credits)
Examination of the origins and history of First Amendment and related law and ethics, with an emphasis on how they apply to the Internet and social media.

JOUR 306 - Theories of Mass Communications (3 Credits)
Survey of predominate theories in mass communications including mass media uses, functions, and effects.
Prerequisites: JOUR 201.

JOUR 308 - Media and Youth (3 Credits)
An introduction to media uses and effects research, considering cognitive, affective, and social development as a framework for analyzing media effects on youth.

JOUR 311 - Minorities, Women, and the Mass Media (3 Credits)
The study of the relationship among persons of color, women, and the mass media in the United States.
Cross-listed course: WGST 311
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

JOUR 316 - Toolkit for Brand Communications (3 Credits)
The theories, principles and conventions of powerful brand communications, both visual and verbal.
Prerequisites: JOUR 202 and JOUR 291.
Corequisite: JOUR 316L.

JOUR 316L - Toolkit for Brand Communications Lab (1 Credit)
Project execution related to visual and verbal concepts of brand communications.
Prerequisites: JOUR 202 and JOUR 291.
Corequisite: JOUR 316.

JOUR 329 - A Focused Look at Brand Communications (1 Credit)
Topics in advertising and strategic communications. Individual topics and
Prerequisites: to be announced with title.

JOUR 330 - Advertising and Brand Communications Speakers Series (1 Credit)
Advertising and brand communications industry experts share insights about industry trends, innovative campaigns and careers.
Prerequisites: JOUR 101.

JOUR 331 - Social Media Marketing Strategy (3 Credits)
Instruction on how to align social media with business objectives and overall communication strategies; and exploration of how organizations have incorporated social media into various departmental functions.
Prerequisites: C or better in all of the following JOUR 291, JOUR 201 or JOUR 202.

JOUR 332 - Mass Communications Research (3 Credits)
Fundamentals of mass communications research methods and applications. Survey, observational and experimental research; primary research data-gathering techniques; secondary research sources; data analysis; message, market, competitive and audience research measures.
Prerequisites: JOUR 201 and a course in basic statistics.

JOUR 333 - Public Relations for Nonprofit Organizations (3 Credits)
Theory and practice of developing public relations strategies and messaging for nonprofit organizations with a focus on audience research, donor relations, membership recruitment and fund raising.
Prerequisites: JOUR 291.
Graduation with Leadership Distinction: GLD: Community Service

JOUR 340 - Special Topics in Public Relations (3 Credits)
Special topics course addressing current issues, problems, and/or trends in public relations. Topics may change from term to term. May be repeated for credit with different course topics.

JOUR 343 - Social Media for Sports Media (3 Credits)
Effective social media use in the world of the sports media.
Topics relating to advertising, journalism, public relations, visual communications, and mass communications will be discussed. Provides contextual background on various social media and uses exercises to develop best practices.

JOUR 345 - Gender, Sexuality, and Sports Media (3 Credits)
How the sports media culture helps create and maintain, as well as challenge, inequalities based on gender and sexual identity. Students will learn how gender and sexuality are constructed through sports media and how they intersect with race, class, able-bodiedness and nationality.

JOUR 346 - Graphics for Visual Communications (3 Credits)
The personal computer and software related to the design and production of graphic and photographic images for print and onscreen media.
Prerequisites: JOUR 203.

JOUR 347 - Photography for Visual Communications (3 Credits)
Introductory photography that includes digital SLR camera use, multiple lenses, lighting, editing and distribution for web and display. Emphasis is on storytelling images for publication in editorial and persuasive media.
Prerequisites: C or better in JOUR 203.

JOUR 348 - Creative Thinking and Problem Solving (3 Credits)
This course introduces the fundamental principles of creative behavior. Theoretical and practical methods of problem-solving as well as discovery, evaluation, and implementation of new ideas.

JOUR 361 - Introductory Reporting and Writing (2 Credits)
Basics of news reporting: Story generation, critical thinking, story development, writing, shooting and editing broadcast stories, writing Web stories, using visual components of still pictures, graphics and video.
Prerequisites: JOUR 291.

JOUR 361L - Introductory Reporting and Writing Lab (1 Credit)
Basics of news reporting: Story generation, critical thinking, story development, writing, shooting and editing broadcast stories, writing Web stories, using visual components of still pictures, graphics and video.
Prerequisites: JOUR 291.
Corequisite: JOUR 361.
JOUR 362 - Editing (3 Credits)
Skills and techniques required in preparing stories for publication. Laboratory work includes editing various kinds of copy and writing headlines.
Prerequisites: JOUR 291.

JOUR 371 - Social Media and Mobile Journalism (3 Credits)
This course provides an introduction on how to use online social platforms and mobile tools following journalistic editorial guidelines. Students will get an overview of the digital-first mindset that informs and enriches their professional preparation.
Prerequisites: C or better in JOUR 204 and JOUR 291.

JOUR 382 - Business Basics for Communications (3 Credits)
Students will gain a fundamental understanding of business and how write about it. Students will learn how various aspects of business, finance and the economy relate to individuals, communities, companies, governments and world events and how to communicate that impact.

JOUR 384 - Professional Perspectives in Business Communications (1 Credit)
These classes focus on specific areas of business communications to either deepen students’ understanding of the subject or improve their ability with a particular skill (reporting, writing, editing, videography, social media, etc.). These topics may change from term to term.
Prerequisites: C or better in JOUR 382.

JOUR 391 - Sports Media and Society (3 Credits)
History of sports media and an analysis of current relationships between the sports industry, athletes, media, social media and the audience.

JOUR 392 - Podcasting and Audio Production (3 Credits)
This course is designed to teach you the fundamentals of audio storytelling, from conception and field gathering skills to writing for the ear and basic non-linear audio production. You will learn to distinguish the ways audio stories differ from those in print, and produce different types of media projects.
Prerequisites: JOUR 291.

JOUR 393 - Digital Signage (3 Credits)
This class is introduces you to what is rapidly becoming the “fifth screen” digital signage, its place in modern communications, some of the issues surrounding it and how to create and evaluate content for it. Students will evaluate the SJMC digital sign system and may create content for it.
Prerequisites: JOUR 291.

JOUR 398 - Diversity Topics in Mass Media (3 Credits)
Topics addressing the intersection of race, gender, sexual orientation, or other forms of diversity or marginality and mass media. Topics may change from term to term. May be repeated for credit with different topics.

JOUR 399 - Special Topics (3 Credits)
Topics in journalism and mass communications. Individual topics and prerequisites; check with student services or the syllabus for the section you are interested in.
Prerequisites: to be announced. Some topics may have; check with student services or the syllabus for the section you are interested in.

JOUR 400 - Digital Media and Big Data Analysis (3 Credits)
Understanding digital media concepts including AI, blockchain, net neutrality, big data, privacy, and network analysis.

JOUR 416 - Creative: Strategy to Execution (3 Credits)
Principles and practices of developing creative and effective brand communications and to acquire proficiency in execution of brand communications.
Prerequisites: JOUR 220 and JOUR 316.

JOUR 419 - Special Topics in Advertising (3 Credits)
Topics addressing contemporary issues in advertising and brand communications. Topics may change from term to term. May be repeated for credit with different topics.

JOUR 421 - Media Analysis (3 Credits)
Research and development of a media plan using integrated communications approach and simulation models.
Prerequisites: JOUR 202.

Graduation with Leadership Distinction: GLD: Research

JOUR 428 - Super Bowl Commercials (3 Credits)
An exploration of how Super Bowl commercials reflect and influence our society. Topics include the way different groups are portrayed, the strategy behind the commercials, and how creative tactics have evolved.

JOUR 436 - Public Relations Writing (3 Credits)
Special areas of writing for public relations.
Prerequisites: JOUR 201 and JOUR 291.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 437 - Advanced Public Relations Writing (3 Credits)
An applied writing skills laboratory that will review and create advanced types of public relations writing and study applicable theory, models and research methods.
Prerequisites: JOUR 101, JOUR 201, JOUR 291 and JOUR 436.

JOUR 438 - Media Relations (3 Credits)
Planning and writing skills to effectively execute media relations, including how to research reporters and outlets, build a media relations plan, create messaging platforms, identify and prepare spokespeople, manage crisis communications and employ social media.
Prerequisites: JOUR 436.

JOUR 440 - Leadership and Internal Relations Management (3 Credits)
Leadership and communication inside an organization as a component of public relations management; strategy, change management, ethics, employees from executive to labor, and organizational theory applied to engage internal stakeholders.
Prerequisites: C or better in JOUR 201.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 443 - Sports Announcing (3 Credits)
This course is designed to introduce students to various aspects of live sports broadcasting. Students will learn skills and techniques that will prepare them to perform live on-air duties including game play-by-play and color analyst.
Prerequisites: C or better in JOUR 291.

JOUR 446 - Informational Graphics (3 Credits)
Visual presentation of quantitative and spatial information. Examines the planning, design, and preparation of statistical graphs, charts, timelines, diagrams, and maps.
Prerequisites: JOUR 203, JOUR 346 and STAT 110.
JOUR 447 - Photovisual Communications II: Advanced Photography (3 Credits)
Developing professional, portfolio-quality photographic images for use in the mass media.
Prerequisites: JOUR 347.

JOUR 448 - Multimedia for Visual Communications (3 Credits)
Team-based multimedia storytelling with an emphasis on studio and location lighting to produce professional-level photography projects and short videos for use in a variety of applications, including editorial assignments and persuasive communications.
Prerequisites: C or better in JOUR 347 and JOUR 447.

JOUR 449 - Design of Online Content (3 Credits)
Introduction to the skills and processes involved in the design and display of online content such as interactive graphics, animation, and video. Considerations for designing and delivering content on a variety of platforms from personal computers to mobile devices.
Prerequisites: JOUR 346.

JOUR 450 - Studio and Location Lighting for Still Photography (3 Credits)
Still photography lighting techniques for mass media applications. Emphasis on studio and on-location lighting of portraits, fashion, illustrations, food and product photography.
Prerequisites: JOUR 347.

JOUR 451 - Freelancing for Creative Professionals (3 Credits)
The theory and practice of entrepreneurship as they apply to creative professionals interested in starting their own freelance business.

JOUR 452 - Photojournalism (3 Credits)
Immersive course in long-form photojournalism storytelling. Students will spend the semester documenting a topic, with emphasis on gathering images with high technical level and compelling content. Class will edit content and create a presentation for the public compelling content.
Prerequisites: C or better in JOUR 347.

JOUR 455 - Special Topics in Visual Communications (3 Credits)
Introduction to issues surrounding the history, theory, skills and techniques of developing and niche visual communications technologies, topics, skills and concepts. Topics may change from term to term. May be repeated for credit with different topics.

JOUR 461 - Sports Journalism (3 Credits)
This course introduces students to the core principles, values, and best practices that guide the work of professional sports journalists. Students will develop skills that are necessary to function as sports journalists in today's media environment.
Prerequisites: C or better in JOUR 361.

JOUR 471 - Intermediate Reporting and Production (3 Credits)
Continuing development of students’ ability to identify, gather, write, edit and present news, responsibly and ethically, across a range of formats, alone and in teams.
Prerequisites: JOUR 204, JOUR 303, JOUR 361.

Graduation with Leadership Distinction: GLD: Research

JOUR 472 - Power Producing (3 Credits)
Examines the art and skill of television news producing, providing students the opportunity to learn about the production process in a real-world, hands-on environment.
Prerequisites: C or better in JOUR 361, JOUR 346, or JOUR 347.

JOUR 475 - Special Topics in Nonfiction Storytelling with Emerging Technologies (3 Credits)
Students produce in-depth journalism projects using a range of storytelling tools and technologies, such as: websites, interactive graphics/maps, HD- and 360-video, drones, AR/VR technology, and podcasting. May be repeated for credit with different topics.
Prerequisites: C or better in JOUR 361 or JOUR 447.

Graduation with Leadership Distinction: GLD: Research

JOUR 480 - Media Management (3 Credits)
This course provides an introduction to and overview of issues and practices in media management. You will steep yourself in and become conversant about economic, industrial and societal forces that influence modern media content curation, production and distribution.

JOUR 482 - Business Reporting and Writing (3 Credits)
This course is designed to build on your basic knowledge of various aspects of business and give you the tools and skills you need to synthesize sometimes complex information and communicate it clearly and accurately to an audience.
Prerequisites: C or better in JOUR 382.

JOUR 483 - Reporting and Writing About the Economy (3 Credits)
This course is designed to build on your basic knowledge of various aspects of the economy and give you the tools and skills you need to synthesize sometimes complex information and communicate it clearly and accurately to an audience.

JOUR 484 - Communication and Information Transfer (3 Credits)
An overview of the communication models, major concepts, trends, and other related issues of information transfer with a focus on information seeking and use in digital age.
Prerequisites: JOUR 101 or SLIS 201.

Cross-listed course: SLIS 420

JOUR 499 - Special Topics (3 Credits)
Topics in journalism and mass communications. Individual topics will vary by title.
Prerequisites: to be announced in class schedule.

Graduation with Leadership Distinction: GLD: Research

JOUR 501 - Freedom, Responsibility, and Ethics of the Mass Media (3 Credits)
Historical development of freedom, responsibility, and ethics in the mass media, including communication theories, pressures, ownership.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

JOUR 504 - International Mass Communications (3 Credits)
A comparative study of world mass communications media, with particular attention to press systems, the sources and flow of international news, and the problems and implications of world communications.

JOUR 506 - Mass Media Criticism (3 Credits)
Development of critical thinking skills for analyzing mass media.
Prerequisites: JOUR 101.

JOUR 507 - Communicating Science, Health and the Environment (3 Credits)
Explores the role of journalism in shaping perceptions of scientific issues and task. Emphasis on methods of effectively communicating about science, health, and the environment.
JOUR 508 - Faith, Values, and the Mass Media (3 Credits)
Faith and values influence the media. An examination of the influence, why it happens, and of religious diversity and the increased public presence of religions, including Hinduism and Islam.
Prerequisites: JOUR 291 and junior or senior standing or consent of instructor.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

JOUR 515 - Mass Communications Capstone Portfolio (3 Credits)
Development of Mass Communications E-portfolio showcasing and reflecting on coursework and experiential learning, with a focus on leadership, as preparation for matriculation in higher education or careers in mass media.
Prerequisites: C or better in JOUR 501, JOUR 506, or JOUR 542.

JOUR 516 - Advanced Creative (3 Credits)
Development of writing styles for print and broadcast advertising.
Prerequisites: JOUR 416.

JOUR 517 - Integrated Campaigns (3 Credits)
The development of a complete, well coordinated integrated communications plan that incorporates research and analysis techniques, critical thinking, team work, creative and tactical skills.
Prerequisites: JOUR 416 and JOUR 421.

Graduation with Leadership Distinction: GLD: Research

JOUR 518 - Brand Communications Practicum/Competitions (3 Credits)
Application of advertising techniques and skills in preparation of full-scale campaign.
Prerequisites: JOUR 332, JOUR 416, JOUR 421.

JOUR 521 - Interactive Communication Strategies (3 Credits)
The development of a complete, well-coordinated integrated communications plan that incorporates research and analysis techniques, critical thinking, team work, creative and tactical skills.
Prerequisites: JOUR 202 or MKTG 350.

JOUR 527 - Advertising Management (3 Credits)
The dynamics of leadership and management in the creative industries.
Prerequisites: JOUR 202.

JOUR 530 - Creative Leadership (3 Credits)
Theories of leadership as applied to creative industries. Students will engage and interact with community-based organizations to assess needs, plan communications strategies, lead student teams in developing those ideas, and present to clients. Junior standing or permission of instructor.

JOUR 531 - Public Relations Campaigns (3 Credits)
Development of public relations campaigns for business and social institutions. Case studies of public relations campaigns and programs.
Prerequisites: JOUR 201, JOUR 332, JOUR 436.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

JOUR 533 - Public Relations Management (3 Credits)
Researching, programming, staff, budgeting, and planning public-relations programs by business, government, or consulting firms.
Prerequisites: JOUR 201, JOUR 436.

JOUR 534 - Publication Writing and Design (3 Credits)
Publication writing and design as well as internal or constituent communications, specifically focused on an internal audience. Production of InterCom, the College of Mass Communications and Information Studies’ alumni magazine.
Prerequisites: JOUR 291.

JOUR 536 - Crisis Communications (3 Credits)
Introduction to crisis communications and management from a strategic, theory-based approach using research from historical and current case studies.
Prerequisites: C or better in JOUR 436.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 537 - The Carolina Agency (3 Credits)
Participation in a functioning communications agency working for actual clients in a student-directed environment. Opportunity to both lead and be a part of a team servicing the communication needs of various clients.
Prerequisites: JOUR 101; JOUR 201; JOUR 203 or JOUR 202; and JOUR 291.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

JOUR 538 - The Bateman Team (3 Credits)
Self-directed development and implementation of a public relations campaign as part of a national competition: PRSSA’s Bateman Competition.
Prerequisites: JOUR 332 and JOUR 436.

JOUR 539 - Ethics in Public Relations and Public Policy (3 Credits)
Review of the analytical process of resolving complex ethical issues and cases in public relations; study of the philosophical approaches to communication ethics.
Prerequisites: JOUR 101.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 542 - Public Opinion and Persuasion (3 Credits)
Theory and practice of persuasive communication and the role of persuasion in shaping public opinion.

JOUR 550 - Advanced Magazine Article Writing (3 Credits)
Writing techniques used in the preparation and marketing of major nonfiction articles for national, regional, and local publications.
Prerequisites: JOUR 566.

JOUR 560 - Capstone Portfolio Development (3 Credits)
Advanced techniques of graphic and multimedia design and their application to problem-solving situations in the mass media. Emphasis on portfolio development.
Prerequisites: JOUR 446, JOUR 447, JOUR 449.

JOUR 563P - Public/Civic Journalism (3 Credits)
To gain an understanding of theory and practice of public/civic journalism, seen by its advocates as socially responsible journalism that attempts to build civic participation and empower communities.

Graduation with Leadership Distinction: GLD: Community Service

JOUR 566 - Magazine Article Writing (3 Credits)
Researching, organizing, writing, and marketing articles for publication in general and specialized publications.
Prerequisites: JOUR 361 or JOUR 436.
JOUR 573 - Editorial and Opinion Writing (3 Credits)
Content and style; writing of editorials, analyses, and commentaries.
Prerequisites: JOUR 291.

JOUR 574 - Data Journalism (3 Credits)
Acquiring, analyzing and presenting data using spreadsheets and other tools to uncover stories and provide depth and context to journalism.
Prerequisites: JOUR 291.

JOUR 575 - Broadcast Journalism Practicum (3 Credits)
Production of public affairs programs.
Prerequisites: JOUR 326, JOUR 333, and JOUR 434.
Corequisite: JOUR 502, JOUR 503, and JOUR 526.

JOUR 576 - Reporting Public Affairs (3 Credits)
Concentrated analyses of reporting in special fields, particularly in the South, including coverage of government, business, labor, the arts and sciences.
Prerequisites: JOUR 361.

JOUR 579 - Broadcast Announcing (3 Credits)
Theory and practice of professional broadcast announcing. Lecture-demonstration-laboratory course in principles underlying professional performance before microphones and cameras and the various broadcast performance functions.
Prerequisites: JOUR 325.

JOUR 580 - Advanced Reporting Topics (3 Credits)
Study and application of highly specialized reporting on topics related to current public discourse. May be repeated as content varies by title.
Corequisite: JOUR 587, JOUR 589, and JOUR 590 or JOUR 586, JOUR 588 and JOUR 590.

JOUR 586 - Capstone I - Advanced Reporting - Broadcast and Online Journalism (3 Credits)
Professional practice in meeting daily newscast deadlines through work on the Carolina News television newscast. Focus on polished reporting, performance and production techniques and demonstration of advanced television reporting skills under deadline pressure.
Prerequisites: JOUR 471.
Corequisite: JOUR 588 and JOUR 590.

JOUR 587 - Capstone I - Advanced Reporting - Multimedia Journalism (3 Credits)
Professional practice in shaping journalistic reporting to the multimedia environment. Application of news gathering, synthesizing and reporting across platforms — print and online, textual and graphic — in timely fashion.
Prerequisites: JOUR 471.
Corequisite: JOUR 589 and JOUR 590.

JOUR 588 - Capstone II - Advanced Broadcast and Online Journalism Production (3 Credits)
Advanced newscast production skills developed in the context of producing daily Carolina News broadcast. Shape and coordinate reporting and production team under deadline pressure in newsroom setting.
Prerequisites: JOUR 471.
Corequisite: JOUR 586 and JOUR 590.

JOUR 589 - Capstone II - Advanced Multimedia Journalism Production (3 Credits)
Editing and design employed to maximize effectiveness in the multimedia environment. Creating accurate and engaging content to reach consumers in varied ways reflecting contemporary consumer use of media.
Prerequisites: JOUR 471.
Corequisite: JOUR 587 and JOUR 590.

JOUR 590 - Capstone III - Digital Journalism (3 Credits)
Exposure to the evolving variety of journalism techniques, software programs and equipment to effectively tell compelling stories and convey information in multiple visual and interactive forms. Emphasis on extending professional skills while reinforcing current best practices.
Prerequisites: JOUR 471.
Corequisite: JOUR 586 and JOUR 588 or both JOUR 587 and JOUR 589.

JOUR 595 - Domestic Study Away in Journalism and Mass Communications (3 Credits)
Domestic study away course will focus on topics in journalism and mass communications and will be taught away from the University of South Carolina Columbia campus. Individual topics will vary by title.
Prerequisites: to be announced in class schedule.

JOUR 596 - Study Abroad in Journalism and Mass Communications (3 Credits)
Study abroad course will focus on topics in journalism and mass communications and will be taught as a study abroad experience. Individual topics will vary by title.
Prerequisites: to be announced in class schedule.

JOUR 597 - Internship in Mass Communications (1-3 Credits)
Supervised professional experience. Maximum of three hours credit. Contract approved by instructor, advisor, and department head is required.
Experiential Learning: Experiential Learning Opportunity

JOUR 598 - Directed Independent Studies (1-6 Credits)
Individual mass media projects. Contract approved by instructor, advisor, and department head is required for undergraduate students.

JOUR 599 - Advanced Special Topics (3 Credits)
Advanced topics in journalism and mass communications. Individual topics and
Prerequisites: to be announced by title in class schedule.

Advertising and Public Relations Minor
Students minoring in advertising and public relations will receive a solid background in the principles of advertising and public relations. The directed elective provides an opportunity to customize each minor.

Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 101</td>
<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 201</td>
<td>Principles of Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 202</td>
<td>Principles of Advertising and Brand Communications</td>
<td>3</td>
</tr>
</tbody>
</table>
Select nine hours of any JOUR elective courses

Total Credit Hours

Advertising, B.A.J.M.C.

Learning Outcomes
Students graduating from the Advertising, B.A.J.M.C. program will be able to...

- demonstrate the ability to conduct research, gather information, write clearly and correctly and present relevant news or persuasive information at a professional level.
- demonstrate the ability to think critically, creatively and independently evaluate their own work and the work of others for accuracy, fairness, clarity, style and correctness.
- demonstrate an understanding of the history of journalism and mass communications, the diversity of groups in a global society in relationship to communications and the role of journalism and mass communications in society.
- demonstrate an understanding of the ethical concepts, legal implications, considerations and practices that guide the mass communications professions.
- demonstrate the ability to apply tools and technologies appropriate for the production, editing and presentation of visual, aural, textual or other media content.
- apply basic numerical and statistical concepts and methods appropriate for the communications professions.

Admissions

Entrance Requirements
Freshman Students
In order to be admitted to a program of study in the School of Journalism and Mass Communications, freshmen must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.50 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.

Transfer Students
A student desiring to transfer to the School of Journalism and Mass Communications, from either another college of the University or another institution, must have a cumulative minimum GPA of 2.50 on all work attempted. Transfer students from other institutions must take at least half the journalism and mass communications coursework while in residence at the University of South Carolina. Required journalism and mass communications courses from non-ACEJMC-accredited institutions, in order to be applied to the journalism and mass communications degree, must be validated by proficiency tests. Other journalism and mass communications courses from those institutions may be used as journalism and mass communications electives at the discretion of the SJMC administration. No more than 12 semester hours of journalism and mass communications related courses from non-ACEJMC-accredited institutions will be applied toward the journalism and mass communications degree.

Completion of ENGL 101 and ENGL 102 with grades of C or higher are prerequisites for JOUR 291.

Degree Requirements (120 Hours)
See School of Journalism and Mass Communications (p. 467) for progression requirements and other regulations.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements</td>
<td>31-44</td>
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<tr>
<td>2. College Requirements</td>
<td>18-21</td>
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<tr>
<td>3. Program Requirements</td>
<td>12-23</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>48</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

- STAT 201 or STAT 205
- any other approved CC-ARP course (p. 743)

SCI – Scientific Literacy (7 hours)

Two approved Carolina Core Scientific Literacy courses (p. 743) from the natural sciences, including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language (except Latin or Ancient Greek) equivalent to the minimal passing grade on the exit examination in 122. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

One US History course selected from the following:

- HIST 111
- HIST 112

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)
CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
Select one from the following:
• SPCH 140
• SPCH 145
• SPCH 230
• SPCH 260

INF – Information Literacy ¹ (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
• any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (18-21 hours)
Foreign Language (0-3 hours)
• only if needed to meet 122-level proficiency

History (3 hours)
Course | Title | Credits
--- | --- | ---
HIST 101 | European Civilization from Ancient Times to the Mid-17th Century | 3
HIST 102 | European Civilization from the Mid-17th Century | 3
HIST 104 | Introduction to the Civilization of the Islamic Middle East | 3
HIST 105 | Introduction to East Asian Civilization | 3
HIST 106 | Introduction to African History | 3
HIST 107 | Introduction to Ancient Near Eastern Civilization | 3
HIST 108 | Science and Technology in World History | 3
HIST 109 | Introduction to Latin American Civilization | 3

Total Credit Hours | 3

Literature (3 hours)
Course | Title | Credits
--- | --- | ---
ENGL 282 | Special Topics in Fiction | 3
ENGL 283 | Special Topics in British Literature | 3
ENGL 284 | Drama | 3
ENGL 285 | Special Topics in American Literature | 3
ENGL 286 | Poetry | 3
ENGL 287 | American Literature | 3
ENGL 288 | English Literature | 3

Total Credit Hours | 3

Social Science (3 hours)
• any CC-GSS (p. 743) course

Social or Behavioral Science (3 hours)
• A 300-level or higher course from HIST or POLI or three hours of Social or Behavioral Sciences at the 300 level or higher from:
  AFAM- African-American Studies; ANTH- Anthropology; COLA- College of Liberal Arts; GEOG-Geography (except GEOG 545 and GEOG 546); LASP-Latin American Studies; POLI- Political Science; PSYC- Psychology; SOCY- Sociology; SOST- Southern Studies; WGST- Women and Gender Studies.

Additional SJMC Requirements (6 hours)
Course | Title | Credits
--- | --- | ---
ECON 224 | Introduction to Economics | 3
MKTG 350 | Principles of Marketing | 3

Total Credit Hours | 6

3. Program Requirements (12-23 hours)
Minor or Cognate (12-18 hours)
Students must complete either a minor or a cognate from courses outside the SJMC:

A minimum grade of C is required in all cognate or minor courses

Minor (18 hours)
A student in the School of Journalism and Mass Communications may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better. A minor form must be completed and approved by the school after the student has completed 30 hours of course work.

Cognate (12 hours)
A student in the School of Journalism and Mass Communications may choose to complete a cognate. A cognate requires a minimum of 12 hours of courses in other departments related to the student’s major and/or career goals. Cognate courses may be taken in one or more departments depending on the interest and requirements of the student, but must have approval of the student’s adviser. Journalism courses may not be used in the cognate. At least 6 of the 12 hours must be at the 300-level or higher. No 100 level courses may be used in the cognate.

Electives (0-11 hours)
The Carolina Core, additional SJMC General Education Requirements, Minor/Cognate and Electives outside of the SJMC must include at least 72 semester hours in academic subjects. Students with fewer than 72 hours in general education courses must take enough electives to fulfill the 72-hour minimum.

No elective courses of a remedial, developmental nature may apply as credit toward the 72-hour minimum.

4. Major Requirements (48 hours)
a minimum grade of C is required in all major courses
Major Courses (28 hours)

<table>
<thead>
<tr>
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<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 202</td>
<td>Principles of Advertising and Brand Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 220</td>
<td>Account Planning: Mining Insights</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 291</td>
<td>Writing for Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 303</td>
<td>Law and Ethics of Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 316</td>
<td>Toolkit for Brand Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 316L</td>
<td>Toolkit for Brand Communications Lab</td>
<td>1</td>
</tr>
<tr>
<td>JOUR 416</td>
<td>Creative: Strategy to Execution</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 421</td>
<td>Media Analysis</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 517</td>
<td>Integrated Campaigns</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 28

Major Electives (20 hours)

Select one JOUR concept/lecture course 3
Select two Directed Capstone electives of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 516</td>
<td>Advanced Creative</td>
<td></td>
</tr>
<tr>
<td>JOUR 518</td>
<td>Brand Communications Practicum/Competitions</td>
<td></td>
</tr>
<tr>
<td>JOUR 521</td>
<td>Interactive Communication Strategies</td>
<td></td>
</tr>
<tr>
<td>JOUR 530</td>
<td>Creative Leadership</td>
<td></td>
</tr>
<tr>
<td>JOUR 537</td>
<td>The Carolina Agency</td>
<td></td>
</tr>
<tr>
<td>JOUR 538</td>
<td>The Bateman Team</td>
<td></td>
</tr>
<tr>
<td>JOUR 597</td>
<td>Internship in Mass Communications</td>
<td></td>
</tr>
</tbody>
</table>

Select 11 hours of additional Journalism electives 11

Total Credit Hours 20

Concentration in Sports Media (12 hours) Optional

Students may choose to complete a concentration in sports media. The sports media concentration may be used to fulfill 12 hours of the major elective requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 391</td>
<td>Sports Media and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three elective courses from the following: 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 428</td>
<td>Super Bowl Commercials</td>
<td></td>
</tr>
<tr>
<td>JOUR 499</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>JOUR 531</td>
<td>Public Relations Campaigns</td>
<td></td>
</tr>
<tr>
<td>JOUR 537</td>
<td>The Carolina Agency</td>
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</tr>
<tr>
<td>JOUR 597</td>
<td>Internship in Mass Communications</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 12

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Broadcast Journalism, B.A.J.M.C.

Learning Outcomes

Students graduating from the Journalism, B.A.J.M.C. program will be able to...

- demonstrate the ability to conduct research, gather information, write clearly and correctly and present relevant news or persuasive information at a professional level.
- demonstrate the ability to think critically, creatively and independently evaluate their own work and the work of others for accuracy, fairness, clarity, style and correctness.
- demonstrate an understanding of the history of journalism and mass communications, the diversity of groups in a global society in relationship to communications and the role of journalism and mass communications in society.
- demonstrate an understanding of the ethical concepts, legal implications, considerations and practices that guide the mass media professions.
- demonstrate the ability to apply tools and technologies appropriate for the production, editing and presentation of visual, aural, textual or other media content.
- apply basic numerical and statistical concepts and methods appropriate for the communications professions.

Admissions

Entrance Requirements

Freshman Students

In order to be admitted to a program of study in the School of Journalism and Mass Communications, freshmen must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.50 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.

Transfer Students

A student desiring to transfer to the School of Journalism and Mass Communications, from either another college of the University or another institution, must have a cumulative minimum GPA of 2.50 on all work attempted. Transfer students from other institutions must take at least half the journalism and mass communications course work in residence at the University of South Carolina Columbia. Required journalism and mass communications courses from non-ACEJMC-accredited institutions, in order to be applied to the journalism and mass communications degree, must be validated by proficiency tests. Other journalism and mass communications courses from those institutions may be used as journalism and mass communications electives at the discretion of the SJMC administration. No more than 12 semester hours of journalism and mass communications related courses from non-ACEJMC-accredited institutions will be applied toward the journalism and mass communications degree.

Completion of ENGL 101 and ENGL 102 with grades of C or higher are prerequisites for JOUR 291.
Degree Requirements (120 hours)
See School of Journalism and Mass Communications (p. 467) for progression requirements and other regulations.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>18-21</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>12-23</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>48</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-44 hours)
CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
*must be passed with a grade of C or higher*
- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)
- STAT 201 or STAT 205
- any other approved CC-ARP course (p. 743)

SCI – Scientific Literacy (7 hours)
Two approved Carolina Core Scientific Literacy courses (p. 743) from the natural sciences, including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language (except Latin or Ancient Greek) equivalent to the minimal passing grade on the exit examination in 122. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
One US History course selected from the following:
- HIST 111
- HIST 112

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
Select one from the following:
- SPCH 140
- SPCH 145
- SPCH 230
- SPCH 260

INF – Information Literacy ¹ (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (18-21 hours)

Foreign Language (0-3 hours)
- only if needed to meet 122-level proficiency

History (3 hours)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>European Civilization from Ancient Times to the Mid-17th Century</td>
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<tr>
<td>HIST 102</td>
<td>European Civilization from the Mid-17th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 104</td>
<td>Introduction to the Civilization of the Islamic Middle East</td>
<td></td>
</tr>
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<td>HIST 105</td>
<td>Introduction to East Asian Civilization</td>
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<tr>
<td>HIST 106</td>
<td>Introduction to African History</td>
<td></td>
</tr>
<tr>
<td>HIST 107</td>
<td>Introduction to Ancient Near Eastern Civilization</td>
<td></td>
</tr>
<tr>
<td>HIST 108</td>
<td>Science and Technology in World History</td>
<td></td>
</tr>
<tr>
<td>HIST 109</td>
<td>Introduction to Latin American Civilization</td>
<td></td>
</tr>
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</table>

Total Credit Hours 3

Literature (3 hours)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>ENGL 282</td>
<td>Special Topics in Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 283</td>
<td>Special Topics in British Literature</td>
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<tr>
<td>ENGL 284</td>
<td>Drama</td>
<td></td>
</tr>
<tr>
<td>ENGL 285</td>
<td>Special Topics in American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 286</td>
<td>Poetry</td>
<td></td>
</tr>
<tr>
<td>ENGL 287</td>
<td>American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 288</td>
<td>English Literature</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 3
Social Science (3 hours)
• any CC-GSS (p. 743) course

Social or Behavioral Science (3 hours)
• A 300-level or higher course from HIST or POLI or three hours of Social or Behavioral Sciences at the 300 level or higher from: AFAM- African-American Studies; ANTH- Anthropology; COLA- College of Liberal Arts; GEOG-Geography (except GEOG 545 and GEOG 546); LASP-Latin American Studies; POLI- Political Science; PSYC- Psychology; SOCY- Sociology; SOST- Southern Studies; WGST- Women and Gender Studies.

Additional SJMC Requirements (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>or MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 6

3. Program Requirements (12-23 hours)

Minor or Cognate (12-18 hours)
Students must complete either a minor or a cognate from courses outside the SJMC.

A minimum grade of C is required in all cognate or minor courses

Minor (18 hours)
A student in the School of Journalism and Mass Communications may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better. A minor form must be completed and approved by the school after the student has completed 30 hours of course work.

Cognate (12 hours)
A student in the School of Journalism and Mass Communications may choose to complete a cognate. A cognate requires a minimum of 12 hours of courses in other departments related to the student’s major and/or career goals. Cognate courses may be taken in one or more departments depending on the interest and requirements of the student, but must have approval of the student’s adviser. Journalism courses may not be used in the cognate. At least 6 of the 12 hours must be at the 300-level or higher. No 100 level courses may be used in the cognate.

Electives (0-11 hours)
The Carolina Core, additional SJMC General Education Requirements, Minor/Cognate and Electives outside of the SJMC must include at least 72 semester hours in academic subjects. Students with fewer than 72 hours in general education courses must take enough electives to fulfill the 72-hour minimum.

No elective courses of a remedial, developmental nature may apply as credit toward the 72-hour minimum.

Major Courses (27 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 101</td>
<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 204</td>
<td>Principles of Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 291</td>
<td>Writing for Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 303</td>
<td>Law and Ethics of Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 361</td>
<td>Introductory Reporting and Writing</td>
<td>2</td>
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<tr>
<td>JOUR 361L</td>
<td>Introductory Reporting and Writing Lab</td>
<td>1</td>
</tr>
<tr>
<td>JOUR 471</td>
<td>Intermediate Reporting and Production</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 586</td>
<td>Capstone I - Advanced Reporting - Broadcast and Online Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 588</td>
<td>Capstone II - Advanced Broadcast and Online Journalism Production</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 590</td>
<td>Capstone III - Digital Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 27

Major Electives (21 hours)
• One advanced reporting directed elective corequisite with Capstone courses (3 hours)
• One professional practice directed elective: editing, reporting or management (3 hours)
• Two conceptual directed electives (6 hours)
• Additional Journalism Electives (9 hours)

Concentration in Sports Media (12 hours) Optional
Students may choose to complete a concentration in sports media. The sports media concentration may be used to fulfill 12 hours of the major elective requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 391</td>
<td>Sports Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>Select three elective courses from the following:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>JOUR 428</td>
<td>Super Bowl Commercials</td>
<td></td>
</tr>
<tr>
<td>JOUR 499</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>JOUR 531</td>
<td>Public Relations Campaigns</td>
<td></td>
</tr>
<tr>
<td>JOUR 537</td>
<td>The Carolina Agency</td>
<td></td>
</tr>
<tr>
<td>JOUR 597</td>
<td>Internship in Mass Communications</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 12

4. Major Requirements (48 hours)

A minimum grade of C is required in all major courses
Journalism, B.A.J.M.C.

Learning Outcomes

Students graduating from the Journalism, B.A.J.M.C. program will be able to:

- demonstrate an understanding of journalism and mass communications, the diversity of groups in a global society in relationship to communications and the role of journalism and mass communications in society.
- demonstrate the ability to apply tools and technologies appropriate for the production, editing and presentation of visual, aural, textual or other media content.
- apply basic numerical and statistical concepts and methods appropriate for the communications professions.
- demonstrate the ability to conduct research, gather information, write clearly and correctly and present relevant news or persuasive information at a professional level.
- demonstrate the ability to think critically, creatively and independently evaluate their own work and the work of others for accuracy, fairness, clarity, style and correctness.
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Admissions

Entrance Requirements

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In order to be admitted to a program of study in the School of Journalism and Mass Communications, freshmen must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.50 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.

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Completion of ENGL 101 and ENGL 102 with grades of C or higher are prerequisites for JOUR 291.

Degree Requirements (120 hours)

See College of Information and Communications (p. 467) for progression requirements and other regulations.

Program of Study

<table>
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<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
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</table>

1. Carolina Core Requirements (31-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

- STAT 201 or STAT 205
- any other approved CC-ARP course (p. 743)

SCI – Scientific Literacy (7 hours)

Two approved Carolina Core Scientific Literacy courses (p. 743) from the natural sciences, including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language (except Latin or Ancient Greek) equivalent to the minimal passing grade on the exit examination in 122. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

One US History course selected from the following:

- HIST 111
- HIST 112

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

Select one from the following:

- SPCH 140
- SPCH 145
• SPCH 230
• SPCH 260

INF – Information Literacy ¹ (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (18-21 hours)

Foreign Language (0-3 hours)
• only if needed to meet 122-level proficiency

History (3 hours)

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Total Credit Hours 3

Literature (3 hours)

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Total Credit Hours 3

Social Science (3 hours)
• any CC-GSS (p. 743) course

Social or Behavioral Science (3 hours)
A 300-level or higher course from HIST or POLI or three hours of Social or Behavioral Sciences at the 300 level or higher from: AFAM- African-American Studies; ANTH- Anthropology; COLA- College of Liberal Arts; GEOP-Geography (except GEOP 545 and GEOP 546); LASP-Latin American Studies; POLI- Political Science; PSYC- Psychology; SOCY- Sociology; SOST- Southern Studies; WGST- Women and Gender Studies.

3. Program Requirements (12-23 hours)

Minor or Cognate (12-18 hours)
Students must complete either a minor or a cognate from courses outside the SJMC.

A minimum grade of C is required in all cognate or minor courses

Minor (18 hours)
A student in the School of Journalism and Mass Communications may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better. A minor form must be completed and approved by the school after the student has completed 30 hours of course work.

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4. Major Requirements (48 hours)

A minimum grade of C is required in all major courses

Major Courses (27 hours)

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<td>JOUR 204</td>
<td>Principles of Journalism</td>
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<td>3</td>
</tr>
<tr>
<td>JOUR 303</td>
<td>Law and Ethics of Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 361</td>
<td>Introductory Reporting and Writing</td>
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</tbody>
</table>
JOUR 361L Introductory Reporting and Writing Lab 1
JOUR 471 Intermediate Reporting and Production 3
JOUR 587 Capstone I - Advanced Reporting · Multimedia Journalism 3
JOUR 589 Capstone II - Advanced Multimedia Journalism Production 3
JOUR 590 Capstone III - Digital Journalism 3
Total Credit Hours 27

Major Electives (21 hours)
- One advanced reporting directed elective corequisite with Capstone courses (3 hours)
- One professional practice directed elective: editing, reporting or management (3 hours)
- Two conceptual directed electives (6 hours)
- Additional Journalism Electives (9 hours)

Concentration in Sports Media (12 hours) Optional
Students may choose to complete a concentration in sports media. The sports media concentration may be used to fulfill 12 hours of the major elective requirements.

Course Title Credits
JOUR 391 Sports Media and Society 3
Select three elective courses from the following: 9
JOUR 428 Super Bowl Commercials
JOUR 499 Special Topics
JOUR 531 Public Relations Campaigns
JOUR 537 The Carolina Agency
JOUR 597 Internship in Mass Communications

Total Credit Hours 12

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Journalism, B.A.J.M.C.

Journalism, B.A.J.M.C. Sports Media Concentration

Mass Communications Minor
A minor in Mass Communications is designed for students who wish to gain a broad understanding of the mass media and learn about the elements at work in the media today. Elective courses allow a student to customize the experience by selecting courses across the journalism and mass communications curriculum.

Minor Requirements (18 Hours)

Course Title Credits
Required Courses
JOUR 101 Media and Society 3

Principles Courses
Select two of the following: 6

- JOUR 201 Principles of Public Relations
- JOUR 202 Principles of Advertising and Brand Communications
- JOUR 203 Principles of Visual Communications
- JOUR 204 Principles of Journalism

Electives
Select any JOUR elective courses 9

Total Credit Hours 18

Mass Communications, B.A.J.M.C.
The challenge of 21st-century communications is to combine the information-gathering function-research and data bases-with the disciplines of disseminating information-journalism, advertising, public relations, visual communications, and mass communications.

The college's School of Journalism and Mass Communications is professionally oriented and grounded strongly in the liberal arts. It offers instruction at the undergraduate and graduate levels. Course work is offered in electronic and print journalism, advertising, public relations, visual communications, and mass communications to train students in both the processes and effects of mass communication.

Learning Outcomes
Students graduating from the Mass Communications, B.A.J.M.C. program will be able to...
- Demonstrate the ability to conduct research, gather information, write clearly and correctly and present relevant news or persuasive information at a professional level.
- Think critically, creatively and independently; evaluate their own work and the work of others for accuracy, fairness, clarity, style and correctness.
- Understand the history of journalism and mass communications, the diversity of groups in a global society in relationship to communications and the role of journalism and mass communications in society.
- Understand the ethical concepts, legal implications, considerations and practices that guide the mass media professions.
- Demonstrate the ability to apply tools and technologies appropriate for the production, editing and presentation of visual, aural, textual or other media content.
- Apply basic numerical and statistical concepts and methods appropriate for the communications professions.

Admissions

Entrance Requirements
Freshman Students
In order to be admitted to a program of study in the School of Journalism and Mass Communications, freshmen must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.50 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.
Transfer Students
A student desiring to transfer to the School of Journalism and Mass Communications, from either another college of the University or another institution, must have a cumulative minimum GPA of 2.50 on all work attempted. Transfer students from other institutions must take at least half the journalism and mass communications course work in residence at the University of South Carolina Columbia. Required journalism and mass communications courses from non-ACEJMC-accredited institutions, in order to be applied to the journalism and mass communications degree, must be validated by proficiency tests. Other journalism and mass communications courses from those institutions may be used as journalism and mass communications electives at the discretion of the SJMC administration. No more than 12 semester hours of journalism and mass communications related courses from non-ACEJMC-accredited institutions will be applied toward the journalism and mass communications degree.

Completion of ENGL 101 and ENGL 102 with grades of C or higher are prerequisites for JOUR 291.

Degree Requirements (120 hours)
See School of Journalism and Mass Communications (p. 467) for progression requirements and other regulations.

Program of Study

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<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
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<tbody>
<tr>
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<tr>
<td>2. College Requirements</td>
<td>18-21</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>12-23</td>
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<tr>
<td>4. Major Requirements</td>
<td>48</td>
</tr>
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</table>

### 1. Carolina Core Requirements (31-44 hours)

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

**ARP – Analytical Reasoning and Problem Solving (6-7 hours)**

- STAT 201 or STAT 205
- any other approved CC-ARP course (p. 743)

**SCI – Scientific Literacy (7 hours)**

Two approved Carolina Core Scientific Literacy courses (p. 743) from the natural sciences, including one laboratory course

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Demonstration of proficiency in one foreign language (except Latin or Ancient Greek) equivalent to the minimal passing grade on the exit examination in 122. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

### 2. College Requirements (18-21 hours)

**Foreign Language (0-3 hours)**

- only if needed to meet 122-level proficiency

#### History (3 hours)

<table>
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<tr>
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</tr>
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<td>Introduction to African History</td>
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<tr>
<td>HIST 107</td>
<td>Introduction to Ancient Near Eastern Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 108</td>
<td>Science and Technology in World History</td>
<td>3</td>
</tr>
</tbody>
</table>

- CC-GFL courses (p. 743)

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

One US History course selected from the following:

- HIST 111
- HIST 112

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- any CC-GSS course (p. 743)

**AIU – Aesthetic and Interpretive Understanding (3 hours)**

- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)**

Select one from the following:

- SPCH 140
- SPCH 145
- SPCH 230
- SPCH 260

**INF – Information Literacy (0-3 hours)**

- any overlay or stand-alone CC-INF course (p. 743)

**VSR – Values, Ethics, and Social Responsibility (0-3 hours)**

- any overlay or stand-alone CC-VSR course (p. 743)
HIST 109  Introduction to Latin American Civilization

<table>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</table>

**Total Credit Hours**  3

**Literature (3 hours)**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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</tr>
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<td>Drama</td>
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<td>ENGL 285</td>
<td>Special Topics in American Literature</td>
<td></td>
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<td>ENGL 286</td>
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<td></td>
</tr>
<tr>
<td>ENGL 287</td>
<td>American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 288</td>
<td>English Literature</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**  3

**Social Science (3 hours)**

- any CC-GSS (p. 743) course

**Social or Behavioral Science (3 hours)**

A 300-level or higher course from HIST or POLI or three hours of Social or Behavioral Sciences at the 300 level or higher from: AFAM- African-American Studies; ANTH- Anthropology; COLA- College of Liberal Arts; GEOG-Geography (except GEOG 545 and GEOG 546); LASP-Latin American Studies; POLI- Political Science; PSYC- Psychology; SOCY- Sociology; SOST- Southern Studies; WGST- Women and Gender Studies.

**Additional SJMC Requirements (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
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<td>MKTG 350</td>
<td>Principles of Marketing</td>
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</tr>
<tr>
<td>or MGMT 371</td>
<td>Principles of Management</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**  6

**3. Program Requirements (12-23 hours)**

**Minor or Cognate (12-18 hours)**

Students must complete either a minor or a cognate from courses outside the SJMC.

*A minimum grade of C is required in all cognate or minor courses*

**Minor (18 hours)**

A student in the School of Journalism and Mass Communications may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better. A minor form must be completed and approved by the school after the student has completed 30 hours of course work.

**Cognate (12 hours)**

A student in the School of Journalism and Mass Communications may choose to complete a cognate. A cognate requires a minimum of 12 hours of courses in other departments related to the student’s major and/or career goals. Cognate courses may be taken in one or more departments depending on the interest and requirements of the student, but must have approval of the student’s adviser. Journalism courses may not be used in the cognate. At least 6 of the 12 hours must be at the 300-level or higher. No 100 level courses may be used in the cognate.

**Electives (0-11 hours)**

The Carolina Core, additional SJMC General Education Requirements, Minor/Cognate and Electives outside of the SJMC must include at least 72 semester hours in academic subjects. Students with fewer than 72 hours in general education courses must take enough electives to fulfill the 72-hour minimum.

No elective courses of a remedial, developmental nature may apply as credit toward the 72-hour minimum.

**4. Major Requirements (48 hours)**

*A minimum grade of C is required in all major courses*

**Major Courses (30 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>JOUR 101</td>
<td>Media and Society</td>
<td>3</td>
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<tr>
<td>JOUR 291</td>
<td>Writing for Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 303</td>
<td>Law and Ethics of Mass Communications</td>
<td></td>
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<tr>
<td>Select three of the following:</td>
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<td>9</td>
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<tr>
<td>JOUR 201</td>
<td>Principles of Public Relations</td>
<td></td>
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<tr>
<td>JOUR 202</td>
<td>Principles of Advertising and Brand Communications</td>
<td></td>
</tr>
<tr>
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<td>Principles of Visual Communications</td>
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<td>Principles of Journalism</td>
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<td>Select three of the following:</td>
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<tr>
<td>JOUR 205</td>
<td>History and Philosophy of the Mass Media</td>
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<td>JOUR 306</td>
<td>Theories of Mass Communications</td>
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<td>JOUR 501</td>
<td>Freedom, Responsibility, and Ethics of the Mass Media</td>
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<td>JOUR 506</td>
<td>Mass Media Criticism</td>
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</tr>
<tr>
<td>JOUR 542</td>
<td>Public Opinion and Persuasion</td>
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</tr>
</tbody>
</table>

**Capstone Portfolio Course**

JOUR 515  Mass Communications Capstone Portfolio  3

**Total Credit Hours**  30

**Leadership with Distinction Pathway (6 hours)**

Choose one of the University’s Leadership with Distinction Pathways: Global Learning, Research, Civic Engagement, or Community Service. Courses listed under each pathway are examples that address the pathway’s learning outcomes. Except for the required courses identified, other relevant courses that address the pathway outcomes may be substituted per approval of advisor.

**Global Learning (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 504</td>
<td>International Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>Select one approved SJMC international elective</td>
<td></td>
<td>3</td>
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</tbody>
</table>

**Total Credit Hours**  6
Public Relations, B.A.J.M.C.

Learning Outcomes

- Students graduating from the Public Relations, B.A.J.M.C. program will be able to...
- demonstrate the ability to conduct research, gather information, write clearly and correctly and present relevant news or persuasive information at a professional level.
- demonstrate the ability to think critically, creatively and independently evaluate their own work and the work of others for accuracy, fairness, clarity, style and correctness.
- demonstrate an understanding the history of journalism and mass communications, the diversity of groups in a global society in relationship to communications and the role of journalism and mass communications in society.
- demonstrate an understanding of the ethical concepts, legal implications, considerations and practices that guide the mass media professions.
- demonstrate the ability to apply tools and technologies appropriate for the production, editing and presentation of visual, aural, textual or other media content.
- apply basic numerical and statistical concepts and methods appropriate for the communications professions.

Admissions

Entrance Requirements

Freshman Students

In order to be admitted to a program of study in the School of Journalism and Mass Communications, freshmen must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.50 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.

Transfer Students

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Completion of ENGL 101 and ENGL 102 with grades of C or higher are prerequisites for JOUR 291.

Degree Requirements (120 hours)

See School of Journalism and Mass Communications (p. 467) for progression requirements and other regulations.
## Program of Study

### Requirements

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### 1. Carolina Core Requirements (31-44 hours)

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

**ARP – Analytical Reasoning and Problem Solving (6-7 hours)**

- STAT 201 or STAT 205
- any other approved CC-ARP course (p. 743)

**SCI – Scientific Literacy (7 hours)**

Two approved Carolina Core Scientific Literacy courses (p. 743) from the natural sciences, including one laboratory course

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Demonstration of proficiency in one foreign language (except Latin or Ancient Greek) equivalent to the minimal passing grade on the exit examination in 122. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

One US History course selected from the following:

- HIST 111
- HIST 112

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- any CC-GSS course (p. 743)

**AIU – Aesthetic and Interpretive Understanding (3 hours)**

- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)**

Select one from the following:

- SPCH 140
- SPCH 145

### 2. College Requirements (18-21 hours)

**Foreign Language (0-3 hours)**

- only if needed to meet 122-level proficiency

**History (3 hours)**

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**Total Credit Hours** 3

**Literature (3 hours)**

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**Total Credit Hours** 3

**Social Science (3 hours)**

- any CC-GSS (p. 743) course

**Social or Behavioral Science (3 hours)**

A 300-level or higher course from HIST or POLI or three hours of Social or Behavioral Sciences at the 300 level or higher from: AFAM- African-American Studies; ANTH- Anthropology; COLA- College of Liberal
Arts; GEDG-Geography (except GEOG 545 and GEOG 546); LASP-Latin American Studies; POLI- Political Science; PSYC- Psychology; SOCY-Sociology; SOST- Southern Studies; WGST- Women and Gender Studies.

Additional SJMC Requirements (6 hours)

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<td>Principles of Management</td>
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Total Credit Hours 6

3. Program Requirements (12-23 hours)

Minor or Cognate (12-18 hours)

Students must complete either a minor or a cognate from courses outside the SJMC.

A minimum grade of C is required in all cognate or minor courses

Minor (18 hours)

A student in the School of Journalism and Mass Communications may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better. A minor form must be completed and approved by the school after the student has completed 30 hours of course work.

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Electives (0-11 hours)

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No elective courses of a remedial, developmental nature may apply as credit toward the 72-hour minimum.

4. Major Requirements (48 hours)

A minimum grade of C is required in all major courses

Major Courses (27 hours)

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<td>3</td>
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<td>JOUR 332</td>
<td>Mass Communications Research</td>
<td>3</td>
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<td>JOUR 436</td>
<td>Public Relations Writing</td>
<td>3</td>
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<td>JOUR 531</td>
<td>Public Relations Campaigns</td>
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<tr>
<td>JOUR 533</td>
<td>Public Relations Management</td>
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Total Credit Hours 27

Major Electives (21 hours)

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<td>JOUR 416</td>
<td>Creative: Strategy to Execution</td>
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<td>JOUR 437</td>
<td>Advanced Public Relations Writing</td>
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<td>JOUR 534</td>
<td>Publication Writing and Design</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 566</td>
<td>Magazine Article Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following writing courses:

Select one of the following work experience courses:

One JOUR Concept/Lecture Course

Select one of the following:

Select three elective courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 518</td>
<td>Brand Communications Practicum/Competitions</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 537</td>
<td>The Carolina Agency</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 538</td>
<td>The Bateman Team</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 597</td>
<td>Internship in Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 205</td>
<td>History and Philosophy of the Mass Media</td>
<td></td>
</tr>
<tr>
<td>JOUR 306</td>
<td>Theories of Mass Communications</td>
<td></td>
</tr>
<tr>
<td>JOUR 311</td>
<td>Minorities, Women, and the Mass Media</td>
<td></td>
</tr>
<tr>
<td>JOUR 499</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>JOUR 501</td>
<td>Freedom, Responsibility, and Ethics of the Mass Media</td>
<td></td>
</tr>
<tr>
<td>JOUR 504</td>
<td>International Mass Communications</td>
<td></td>
</tr>
<tr>
<td>JOUR 506</td>
<td>Mass Media Criticism</td>
<td></td>
</tr>
<tr>
<td>JOUR 507</td>
<td>Communicating Science, Health and the Environment</td>
<td></td>
</tr>
<tr>
<td>JOUR 508</td>
<td>Faith, Values, and the Mass Media</td>
<td></td>
</tr>
<tr>
<td>JOUR 539</td>
<td>Ethics in Public Relations and Public Policy</td>
<td></td>
</tr>
<tr>
<td>JOUR 542</td>
<td>Public Opinion and Persuasion</td>
<td></td>
</tr>
<tr>
<td>JOUR 599</td>
<td>Advanced Special Topics</td>
<td></td>
</tr>
<tr>
<td>JOUR 391</td>
<td>Sports Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 428</td>
<td>Super Bowl Commercials</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 499</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 531</td>
<td>Public Relations Campaigns</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 537</td>
<td>The Carolina Agency</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration in Sports Media (12 hours) Optional

Students may choose to complete a concentration in sports media. The sports media concentration may be used to fulfill 12 hours of the major elective requirements.

Select three elective courses from the following:

Select nine hours

Total Credit Hours 21
Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Public Relations, B.A.J.M.C.

Public Relations, B.A.J.M.C. Sports Media Concentration

Visual Communications, B.A.J.M.C.

Learning Outcomes

- Students graduating from the Visual Communications, B.A.J.M.C. program will be able to...
- demonstrate the ability to conduct research, gather information, write clearly and correctly and present relevant news or persuasive information at a professional level.
- demonstrate the ability to think critically, creatively and independently evaluate their own work and the work of others for accuracy, fairness, clarity, style and correctness.
- demonstrate an understanding the history of journalism and mass communications, the diversity of groups in a global society in relationship to communications and the role of journalism and mass communications in society.
- demonstrate an understanding of the ethical concepts, legal implications, considerations and practices that guide the mass media professions.
- demonstrate the ability to apply tools and technologies appropriate for the production, editing and presentation of visual, aural, textual or other media content.
- apply basic numerical and statistical concepts and methods appropriate for the communications professions.

Admissions

Entrance Requirements

Freshman Students
In order to be admitted to a program of study in the School of Journalism and Mass Communications, freshmen must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.50 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.

Transfer Students
A student desiring to transfer to the School of Journalism and Mass Communications, from either another college of the University or another institution, must have a cumulative minimum GPA of 2.50 on all work attempted. Transfer students from other institutions must take at least half the journalism and mass communications course work in residence at the University of South Carolina Columbia. Required journalism and mass communications courses from non-ACEJMC-accredited institutions, in order to be applied to the journalism and mass communications degree, must be validated by proficiency tests. Other journalism and mass communications courses from those institutions may be used as journalism and mass communications electives at the discretion of the SJMC administration. No more than 12 semester hours of journalism and mass communications related courses from non-ACEJMC-accredited institutions will be applied toward the journalism and mass communications degree.

Completion of ENGL 101 and ENGL 102 with grades of C or higher are prerequisites for JOUR 291.

Degree Requirements (120 hours)

See School of Journalism and Mass Communications (p. 467) for progression requirements and other regulations.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements (31-44 hours)</td>
<td></td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>18-21</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>12-23</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>48</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)

- STAT 201 or STAT 205
- any other approved CC-ARP course (p. 743)

SCI – Scientific Literacy (7 hours)

Two approved Carolina Core Scientific Literacy courses (p. 743) from the natural sciences, including one laboratory course

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language (except Latin or Ancient Greek) equivalent to the minimal passing grade on the exit examination in 122. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

One US History course selected from the following:
• HIST 111
• HIST 112

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
Select one from the following:
• SPCH 140
• SPCH 145
• SPCH 230
• SPCH 260

INF – Information Literacy 1 (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible
Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (18-21 hours)
Foreign Language (0-3 hours)
• only if needed to meet 122-level proficiency

History (3 hours)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>European Civilization from Ancient Times to the</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mid-17th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 102</td>
<td>European Civilization from the Mid-17th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 104</td>
<td>Introduction to the Civilization of the Islamic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 105</td>
<td>Introduction to East Asian Civilization</td>
<td></td>
</tr>
<tr>
<td>HIST 106</td>
<td>Introduction to African History</td>
<td></td>
</tr>
<tr>
<td>HIST 107</td>
<td>Introduction to Ancient Near Eastern Civilization</td>
<td></td>
</tr>
<tr>
<td>HIST 108</td>
<td>Science and Technology in World History</td>
<td></td>
</tr>
<tr>
<td>HIST 109</td>
<td>Introduction to Latin American Civilization</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 3

Literature (3 hours)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 282</td>
<td>Special Topics in Fiction</td>
<td></td>
</tr>
<tr>
<td>ENGL 283</td>
<td>Special Topics in British Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 284</td>
<td>Drama</td>
<td></td>
</tr>
<tr>
<td>ENGL 285</td>
<td>Special Topics in American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 286</td>
<td>Poetry</td>
<td></td>
</tr>
<tr>
<td>ENGL 287</td>
<td>American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 288</td>
<td>English Literature</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 3

Social Science (3 hours)
• any CC-GSS (p. 743) course

Social or Behavioral Science (3 hours)
• A 300-level or higher course from HIST or POLI or three hours of Social or Behavioral Sciences at the 300 level or higher from:
  - AFAM- African-American Studies;
  - ANTH- Anthropology;
  - COLA-College of Liberal Arts;
  - GEGE-Geography (except GEGE 545 and GEGE 546);
  - LSP-Latin American Studies;
  - POLI- Political Science;
  - PSYC- Psychology;
  - SOST-Southern Studies;
  - WGST-Women and Gender Studies.

Additional SJMC Requirements (6 hours)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>or MGMT 371</td>
<td>Principles of Management</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 6

3. Program Requirements (12-23 hours)
Minor or Cognate (12-18 hours)
Students must complete either a minor or a cognate from courses outside the SJMC.

A minimum grade of C is required in all cognate or minor courses

Minor (18 hours)
A student in the School of Journalism and Mass Communications may choose to complete a minor consisting of 18 credit hours of prescribed courses. The minor is intended to develop a coherent basic preparation in a second area of study. Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both minor and major requirements. All minor courses must be passed with a grade of C or better. A minor form must be completed and approved by the school after the student has completed 30 hours of course work.

Cognate (12 hours)
A student in the School of Journalism and Mass Communications may choose to complete a cognate. A cognate requires a minimum of 12 hours of courses in other departments related to the student’s major and/or career goals. Cognate courses may be taken in one or more departments depending on the interest and requirements of the student, but must have approval of the student’s adviser. Journalism courses may
Visual Communications, B.A.J.M.C. Sports Media Concentration

School of Library and Information Science

Department Website (https://sc.edu/study/colleges_schools/cic/library_and_information_science/)

Tom Reichert, Ph.D., Dean
David Lankes, Ph.D., Associate Dean and Director, School of Library and Information Science

As a professional school grounded strongly in the sciences and liberal arts, the School of Library and Information Science emphasizes the value of a broad educational foundation as well as proficiency in information and communication skills. Information Science is the study of the cognitive, social, technological, and organizational roles of information in all its forms and rests on three foundations: content, people, and technology. That is, the substance of the information being created, communicated, stored, and/or transformed; the people who interact with this content; and the technology used to support content creation, communication, storage, or transformation.

The program emphasizes research-based learning and incorporates opportunities for service learning, internship, and work-study in a wide range of public and private organizations and agencies. In addition to providing a strong background for graduate work in library and information science, law, social science, and business, the graduate will be well suited to compete for beginning level positions as a competitive intelligence analyst, consultant, database developer and analyst, data mining specialist, information architect, archivist and records manager, information broker, information consultant, Internet researcher, knowledge management consultant, online searcher, navigation designer, researcher/analyst, Web designer/developer/programmer, and others related to organizational needs for workers who understand information resources and services.

Progression Requirements

Each student within the school is expected to make orderly progress toward a baccalaureate degree. To facilitate this, the school’s undergraduate program is divided into upper and lower divisions.

1. Lower-division students are those who have earned fewer than 60 semester hours toward the degree or who do not meet admission requirements to the upper division.

2. Admission to the upper division is based upon a minimum 2.50 cumulative UofSC GPA; completion of SLIS 201 and SLIS 202 with grades of C or higher; completion of 60 or more semester hours toward the degree; completion of most general education requirements (see below); selection of a particular program of study within the School; and selection and approval of a minor. All students desiring to be admitted to the upper division must formally apply for admission some time after completion of 45 semester hours and SLIS 201 and SLIS 202 and before completion of more than 75 hours of University course work.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major Courses (33 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 101</td>
<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 203</td>
<td>Principles of Visual Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 291</td>
<td>Writing for Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 303</td>
<td>Law and Ethics of Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 346</td>
<td>Graphics for Visual Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 347</td>
<td>Photography for Visual Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 446</td>
<td>Informational Graphics</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 447</td>
<td>Photovisual Communications: Advanced</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 448</td>
<td>Multimedia for Visual Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 449</td>
<td>Design of Online Content</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 560</td>
<td>Capstone Portfolio Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 33

Major Electives (15 hours)

- One Visual Communications special topics course (3 hours)
- One JOUR concept/lecture course (3 hours)
- Additional Journalism Electives (9 hours)

Concentration in Sports Media (12 hours) Optional

Students may choose to complete a concentration in sports media. The sports media concentration may be used to fulfill 12 hours of the major elective requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLIS 201</td>
<td>Sports Media and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three elective courses from the following:

- JOUR 428 Super Bowl Commercials
- JOUR 499 Special Topics
- JOUR 531 Public Relations Campaigns
- JOUR 537 The Carolina Agency
- JOUR 597 Internship in Mass Communications

Total Credit Hours 12
3. All students must maintain a minimum 2.50 GPA on UofSC courses in order to maintain good standing in the School and to graduate with a B.S. in Information Science. Grades will be reviewed at the end of each semester. Students who have less than a 2.50 GPA on UofSC work are not in good standing and will be placed on probation within the School. With the exception of upper-division courses, they may continue to take course work toward their degree if seats are available.

4. All majors within the School will be expected to pass all Information Science courses used toward the degree with a minimum grade of C.

5. No Information Science course may be repeated more than once by any student.

Second Degree

Students from other UofSC colleges who expect to obtain a second baccalaureate degree from the School of Library and Information Science meet regular admission and progression requirements of the School, must be assigned an Information Science advisor, and must formally apply to and be accepted by the School not later than the next-to-the-last semester in which the student expects to receive the Information Science degree.

Programs

- Informatics Minor (p. 491)
- Information Science, B.S. (p. 491)

Courses

LIBR 101 - Information Literacy (1 Credit)
Introduction to methods and ethics of information research, with emphasis on analyzing and defining information needs and resources, creating and refining search strategies, evaluating resources, and synthesizing and citing information. Admission restricted to undergraduates.

Carolina Core: INF

SLIS 201 - Introduction to Information Science (3 Credits)
Major concepts, principles, theories, issues, and trends in the development of Information Science.

SLIS 202 - Introduction to Information Literacy and Technology (3 Credits)
An introduction to the basic information technologies used in all types of information organizations and the essential concepts and skills needed for information literacy.

Carolina Core: INF

SLIS 220 - Using Information Resources (3 Credits)
Introduction to information services and sources available in print and electronic format. Techniques for locating, evaluating, and using information resources basic to academic work.

Prerequisites: CSCE 101 or equivalent.

SLIS 250 - Introduction to Content Management Systems and Information Design (3 Credits)
Overview of responsive website design, development and basic content management systems. Examine the current tools and standards and learn how they function together in a modern web environment. Emphasis on the myriad of viewing devices and specific reference to the unique needs of information intensive institutions.

SLIS 301 - Information Storage and Retrieval (3 Credits)
Introduction to the concepts, issues, theories, and techniques of information storage and retrieval systems.

Prerequisite or Corequisite: SLIS 201.

SLIS 310 - Research Methods in Information Science (3 Credits)
Overview of major types of research methods and techniques within the field of information science. Methods of data analysis, evaluation of published research, and ethical principles.

Prerequisite or Corequisite: SLIS 201, STAT 110 or STAT 201.

Graduation with Leadership Distinction: GLD: Research

SLIS 315 - Information Policy (3 Credits)
Problems and ethical issues that arise in the development and implementation of information policies in Information Science.

Prerequisites: SLIS 201.

SLIS 325 - Children's Literature (3 Credits)
A study of materials for children from birth through elementary school (age 13) with emphasis on the evaluation, selection, and use of those materials to meet the educational, cultural, and recreational needs of children.

Graduation with Leadership Distinction: GLD: Community Service

SLIS 330 - Introduction to Computer Technology & Applications for Info Env (3 Credits)
The basic information technology concepts and applications relevant to library and related information environments. Unique information technology needs and applications of information-intensive organizations.

SLIS 402 - Introduction to Management Within Information Environments (3 Credits)
History, development, and implementation of theories and practices associated with managing information environments.

Prerequisite or Corequisite: SLIS 201.

SLIS 410 - Knowledge Management (3 Credits)
Introduction to the background, principles, practices, and technologies of knowledge management for library and information professionals.

Prerequisites: SLIS 301.

SLIS 415 - Social Informatics (3 Credits)
Examines the design, uses, and effects of information and communication technologies (ICTs) from the standpoint that society and technology mutually shape one another.

SLIS 420 - Communication and Information Transfer (3 Credits)
An overview of the communication models, major concepts, trends, and other related issues of information transfer with a focus on information seeking and use in digital age.

Prerequisites: SLIS 201 or JOUR 101.

Cross-listed course: JOUR 491

SLIS 429 - Information Management for Journalists (3 Credits)
Online resources specific to mass communications, research strategies, organization and creation of digital information.

SLIS 430 - User-Centered Information Architecture (3 Credits)
Processes and techniques for designing user-centered information systems on the Web. Issues of needs analysis, content development, cognitive models, human-computer interaction, interface design, and usability testing.

Prerequisites: SLIS 202.
SLIS 434 - Introduction to Knowledge Discovery (3 Credits)
The students will review knowledge discovery basics concepts, techniques, tools, and applications. This course is project based and the students will develop new Wikipedia pages by reading papers in a selected domain.
Prerequisites: MATH 122 or MATH 141 or MATH 142 or MATH 170 or MATH 172 or STAT 515 or STAT 201 or STAT 205.

SLIS 435 - Digital Information Infrastructure (3 Credits)
Theoretical and technological foundations of building the digital information infrastructure. Emphasis on technical aspects of managing digital assets for Intranet and Internet use.
Prerequisites: SLIS 202, SLIS 402.

SLIS 440 - Competitive Intelligence (3 Credits)
Strategies and techniques for locating competitive intelligence information.
Prerequisites: SLIS 201, SLIS 202, SLIS 301, SLIS 402.

SLIS 450 - Information Issues in Cultural Heritage Institutions (3 Credits)
Problem of identifying or defining cultural heritage and the issues and problems in preserving, accessing, and managing cultural heritage information. Issues such as copyright/ownership, technical problems of preservation and intellectual access, and the different ways in which libraries, archives, museums, zoos and other cultural heritage institutions operate.

SLIS 480 - Emerging Topics in Information Science (3 Credits)
Examination of selected current and emerging topics in the field of information science. May be repeated once for credit as topics vary.
Prerequisites: SLIS 201, SLIS 202, SLIS 301, SLIS 402.

SLIS 494 - Independent Study in Information Science (3 Credits)
Independent study in an area of information science relevant to the students professional goals. May be repeated once for credit as topics vary.
Prerequisites: SLIS 201, SLIS 202, SLIS 301, SLIS 402.

Graduation with Leadership Distinction: GLD: Research

SLIS 496 - Internship in Information Science (3 Credits)
Supervised field experience in an information agency relevant to students professional goals. Approval of the appropriate internship application must be submitted early in the semester preceding enrollment.
Prerequisites: SLIS 201, SLIS 202, SLIS 301, SLIS 402.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

SLIS 501 - Teaching and Training in Distributed Environments (3 Credits)
Knowledge and skills for applying complementary technologies for learning in distributed learning environments (Pre-K-lifelong) through lecture, demonstration, and discussion.

SLIS 523 - Materials for Early Childhood (3 Credits)
Media resources and techniques for children from birth to 9 years. Reading interests and developmental needs of young children. Authors, illustrators, indexes, bibliographic tools, evaluation sources, and professional literature. Not open to students enrolled in M.L.I.S. program.

SLIS 525 - Materials for Children (3 Credits)
Media resources for children. Reading interests of children and their curricular and independent needs for information. Authors, illustrators, indexes, bibliographic tools, and sources of evaluation of materials for children. Techniques and literature for read-aloud programs and storytelling. Not open to students enrolled in M.L.I.S. program.

SLIS 527 - Materials for Adolescents (3 Credits)
Media resources for adolescents. Reading interests of adolescents and their curricular and independent information needs. Study of relationships of media to information needs and critical comparison between classic and contemporary materials for adolescents. Indexes, bibliographic tools, and sources of evaluation of materials. Not open to students enrolled in M.L.I.S. program.

SLIS 529 - Special Topics in Library and Information Studies (3 Credits)
Specific topics of current concern to the library, information, and media professions to be identified by title. Not open to students enrolled in M.L.I.S. program.

SLIS 530 - Applications of Information Technology and the Infrastructure (3 Credits)
Introductory knowledge for school library media specialists, teachers, administrators, parents, and other citizens interested in practical applications of information technology to support learning, decision making, and community building.

SLIS 534 - Knowledge Discovery Techniques (3 Credits)
Knowledge discovery techniques and applications.
Prerequisites: SLIS 434 for Undergraduate Students.

SLIS 560 - Information Visualization (3 Credits)
Foster theoretical insights about information visualization. Prepare small and large-scale datasets for visual representations. Project-based and students will map real datasets and understand the methods to interpret the visualizations.

SLIS 600 - Storytelling: Theory, Practice, and Development (3 Credits)
Storytelling methods, techniques, and materials encompassing heritage, art, literature, and programming.

Informatics Minor

Minor Requirements (18 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLIS 201</td>
<td>Introduction to Information Science</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 301</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 410</td>
<td>Knowledge Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Select 9 hours from any additional SLIS courses</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

1 SLIS 480 may be repeated for credit with different topics.

Information Science, B.S.

Learning Outcomes

- Students will describe the techniques and principles for creating, storing, organizing, transforming, and communicating information to various information seekers.
Students will demonstrate practical skills of information science and the use of information systems.

Students will demonstrate the comprehension of the valuable role of information and information technology in society as well as the diversity of needs and uses for information.

**Admissions**

**First-Year Students**

In order to be admitted to the B.S. in Information Science degree program of study in the School of Library and Information Science, first-year students must meet all University admission requirements. In order to continue in the program, each student must attain a minimum USC GPA of 2.50 upon completion of 30 degree-applicable hours. Credit received for remedial work is not counted toward the 30 hours.

**Transfer Students**

A student desiring to transfer to the B.S. in Information Science program of the School of Library and Information Science from either another college or school of the University or another institution must have a cumulative minimum GPA of 2.50 on all work attempted. Transfer students from other institutions must take at least half of the information science course work in residence at the University of South Carolina Columbia. Required information science courses from schools taken from other schools must be validated by proficiency tests. No more than 12 semester hours of required information science courses from other schools may be applied toward the B.S. degree in Information Science.

Completion of ENGL 101 and ENGL 102 with grades of C or higher are prerequisites for admission to the B.S. in I.S. upper-division program.

**Degree Requirements (121 hours)**

**Program of Study**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>48-54</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>36</td>
</tr>
</tbody>
</table>

**1. Carolina Core Requirements (31-43 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- ENGL 101
- ENGL 102

**ARP – Analytical Reasoning and Problem Solving (6-7 hours)**

- STAT 201
- any CC-ARP course (p. 743)

**SCI – Scientific Literacy (7 hours)**

- Two approved Carolina Core Scientific Literacy courses (p. 743) from the natural sciences, including one laboratory course

**GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Students in the School of Library and Information Science are required to demonstrate proficiency in one foreign language equivalent to the 122 course through course credit or the corresponding foreign language placement score.

- CC-GFL courses (p. 743)

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

- any CC-GHS course (p. 743)

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- any CC-GSS course (p. 743)

**AIU – Aesthetic and Interpretive Understanding (3 hours)**

- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)**

- any overlay or stand-alone CC-CMS course (p. 743)

SLIS recommends one of the following:

- SAEL 200
- SPCH 145
- SPCH 230

**INF – Information Literacy 1 (0-3 hours)**

- ENGL 102 - *must be passed with a grade of C or higher*

Note: SLIS 202 may not be used to fulfill the INF Carolina Core requirement

**VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)**

- any overlay or stand-alone CC-VSR course (p. 743)e (SLIS recommends SAEL 200)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

**2. College Requirements (0 hours)**

*No college-required courses for this program.*

**3. Program Requirements (48-54 hours)**

**Supporting Courses (30 hours)**

**Professional Courses (30 hours)**

Complete the required credit hours for each category below.
Course | Title | Credits
--- | --- | ---
**Technology/Systems**
Select six hours of the following: 6
- CSCE 101 | Introduction to Computer Concepts | 3
- CSCE 102 | General Applications Programming | 3
- MGSC 290 | Computer Information Systems in Business | 3
- GEG 363 | Geographic Information Systems | 3
- ITEC 444 | Introduction to Human Computer Interaction | 3

**Business**
Select six hours of the following: 6
- ACCT 222 | Survey of Accounting | 3
- ACCT 225 | Introduction to Financial Accounting | 3
- ECON 224 | Introduction to Economics | 3
- MKTG 350 | Principles of Marketing | 3

**Management/Organizations**
Select three hours of the following: 3
- MGMT 371 | Principles of Management | 3
- MGMT 376 | Employee Engagement | 3
- MGMT 402 | Managing Teams in the Workplace | 3
- MGMT 472 | Entrepreneurship and Small Business | 3

**Media/Visual Design**
Select three hours of the following: 3
- JOUR 101 | Media and Society | 3
- JOUR 203 | Principles of Visual Communications | 3
- MART 201 | Foundations of Media Arts Production | 3

**Advanced Writing**
Select three hours of the following: 3
- ENGL 460 | Advanced Writing | 3
- ENGL 462 | Technical Writing | 3
- ENGL 463 | Business Writing | 3
- ENGL 468 | Digital Writing | 3

**Communications**
Select three hours of the following: 3
- SPCH 140 | Public Communication | 3
- SPCH 260 | Argumentation and Debate | 3
- SPCH 330 | Small Group Communication | 3
- SPCH 331 | Organizational Communication | 3
- SPCH 380 | Persuasive Communication | 3
- ANTH 371 | Ethnography of Communication | 3
- SAEL 200 | Social Advocacy and Ethical Life | 3
- LING 300 | Introduction to Language Sciences | 3

**Additional Professional Courses**
Select two from any of the courses listed in the categories above 1 6

**Total Credit Hours** 30

1 SPCH 140, SPCH 260, or SAEL 200 may not be selected if they were used to satisfy any requirements in the Carolina Core.

**Minor or Cognate (12-18 hours)**
A minor is eighteen credit hours or more. BSIS students are encouraged to pursue one of the sanctioned USC minors in over a hundred different subject areas. BSIS students, with an approval from the BSIS committee, may choose to complete a cognate instead of a minor. The cognate is usually twelve hours of course work. Only six hours of lower division class credits can be applied to the cognate. All cognates will be approved by the BSIS sub-committee usually by the second semester of the Junior year of a BSIS student if not earlier.

**Electives (0-12 hours)**
Choose any course with approval of an academic advisor, to reach hours to graduate.

Note: Courses used to satisfy Carolina Core requirements may not also count as electives.

**4. Major Requirements (36 hours)**
*a minimum grade of C is required in all major courses*

**Major Courses (30 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLIS 201</td>
<td>Introduction to Information Science</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 202</td>
<td>Introduction to Information Literacy and Technology</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 220</td>
<td>Using Information Resources</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 301</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 310</td>
<td>Research Methods in Information Science</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 330</td>
<td>Introduction to Computer Technology &amp; Applications for Info Env</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 402</td>
<td>Introduction to Management Within Information Environments</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 410</td>
<td>Knowledge Management</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 420</td>
<td>Communication and Information Transfer</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 494</td>
<td>Independent Study in Information Science</td>
<td>3</td>
</tr>
<tr>
<td>or SLIS 496</td>
<td>Internship in Information Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 30

**Major Electives (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLIS 315</td>
<td>Information Policy</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 430</td>
<td>User-Centered Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 434</td>
<td>Introduction to Knowledge Discovery</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 435</td>
<td>Digital Information Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 440</td>
<td>Competitive Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 450</td>
<td>Information Issues in Cultural Heritage Institutions</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 480</td>
<td>Emerging Topics in Information Science</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 494</td>
<td>Independent Study in Information Science</td>
<td>3</td>
</tr>
<tr>
<td>SLIS 496</td>
<td>Internship in Information Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Any other SLIS course**

**Total Credit Hours** 6

**Major Map**
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor...
for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.
SCHOOL OF MUSIC

Department Website (http://www.music.sc.edu/)

Tayloe Harding, Dean
Ron Davis, Associate Dean for Equity, Diversity, and Inclusion
Rebecca S. Nagel, Associate Dean for Community Engagement and Experiential Learning
Clifford Leaman, Associate Dean and Director of Graduate Studies
Tina Milhorn Stallard, Associate Dean and Director of Undergraduate Studies
Jacob Will, Associate Dean of Administration

Degrees Offered
The University of South Carolina offers two undergraduate degrees in music: the Bachelor of Arts degree and the Bachelor of Music degree with emphases in performance, theory, composition, jazz studies, music education-choral, and music education-instrumental.

The School of Music is accredited by the National Association of Schools of Music.

Through the Bachelor of Music program in music education, the School of Music participates in the teacher education programs of the University which are accredited by the National Council for Accreditation of Teacher Education. The School of Music also participates actively in South Carolina Honors College.

General Requirements

Applied Music for the Music Major
A qualifying audition is required prior to registration in applied music courses. Students who do not qualify for entrance into the music major sequence (MUSC 111 or MUSC 211) in their primary performance area will be placed into the MUSC 101 level. Students may study at the MUSC 101 level in their primary area for a maximum of two semesters. If, at the final examination of the second semester in MUSC 101, the area faculty finds that a student does not meet the performance standard to enter the music major sequence (MUSC 111 or MUSC 211), the student will be removed from the school.

All candidates for degrees in music must continue individual instruction in their primary performance area until the applied music requirements have been satisfied. All assignments of students registered in applied music courses to actual instructors/professors are determined by the dean of the School of Music. As part of the applied study, students are required to attend concerts and perform at the School of Music seminars. The number of credit hours of applied music is determined by the chosen curriculum.

Piano Proficiency
All students except those for whom piano or organ is the major applied area are required to pass a piano proficiency examination. Specific requirements for this examination are listed in the School of Music’s Handbook for Undergraduate Students. Music majors enter the Group Piano sequence at the MUED 155 level and remain in the sequence until degree requirements have been satisfied. Students who have studied piano (a minimum of three years) can audition with the Coordinator of Group Piano for advanced placement in or exemption from Group Piano. The audition must take place during the first two semesters of study. For many students the study of piano will begin in group piano and progress later to private study.

Attendance
Enrollment in a course obligates the student not only for prompt completion of all work assigned but also for punctual and regular attendance and for participation in whatever class discussion may occur. It is the student’s responsibility to keep informed concerning all assignments made. Absences, whether excused or unexcused, do not absolve the student from this responsibility. Absence from more than 10 percent of the scheduled class sessions, whether excused or unexcused, is excessive and the instructor may choose to exact a grade penalty for such absences.

Regulations for attendance at ensemble rehearsals and performances are different from regulations for class attendance. Members of ensembles are expected to be present at every rehearsal and performance unless excused. Regulations pertaining to jury examinations, ensemble participation, recitals, seminar attendance and other related matters are published in the School of Music’s Handbook for Undergraduate Students.

Progression Requirements
Acceptance as a music major does not guarantee progression to the upper division. To remain in a degree program offered by the School of Music, a student must make satisfactory progress toward the degree. A student who fails to make satisfactory academic progress may be placed on academic probation or removed from the school. This includes satisfactory progress in the applied music sequence. In addition, all students in the school are subject to the regulations on probation, suspension, and readmission in the “Academic Standards” section of the “Academic Regulations” chapter of this bulletin. At the end of the sophomore year, each student’s progress toward completion of lower-division requirements will be evaluated.

Upper Division
To be admitted to the upper division, students must meet the following criteria:

1. completion of piano proficiency requirements;
2. completion of the Aural Skills training sequence (MUSC 117, MUSC 118, MUSC 217, MUSC 218); Bachelor of Music with an emphasis in Theory majors must achieve a minimum grade of “B”
3. completion of music theory sequence (MUSC 115, MUSC 116, MUSC 215, MUSC 216); Bachelor of Music with an emphasis in Theory majors must achieve a minimum grade of “B”
4. for music education majors, completion of the Music Education Practicum (MUED 200);
5. for Bachelor of Music students, approval of the applied jury to progress to the upper-division courses (MUSC 311 or MUSC 411), as appropriate to the chosen degree program;
6. completion of at least 60 credits with a cumulative grade point average of 2.50 in MUSC and MUED courses and 2.00 in all courses.
Graduation

In order to be eligible for graduation, students in the School of Music must meet all course requirements, be in good standing, have a cumulative GPA of at least 2.50 on all MUSC and MUED courses, and have a cumulative GPA of at least 2.00 on all work attempted at UofSC. The last 30 semester hours must be completed in residence at the University, and at least half of the hours in the student’s major courses and in the student’s minor courses must be taken at the University. For further information on this and other University regulations, see the “Academic Regulations” chapter of this bulletin.

Advisement

Every music major will be assigned an advisor in the school, who will consult with the student throughout the college career. Students must see their academic advisors at least once each semester for assistance in planning their academic program. No student will be allowed to complete the registration process without an advisement form approved by an assigned faculty advisor.

It is the responsibility of each student to understand and complete all degree requirements. The student’s major advisor is responsible for interpreting and applying major, minor, and cognate requirements. When special problems arise, the student may consult the director of undergraduate studies.

Right of Petition

A student may seek relief from academic standards and regulations by appealing to the Scholastic Standards and Petitions Committee of the School of Music. Information on procedures may be obtained from the music studies office.

Career Development

The School of Music aims to complement academic advising by assisting music students in clarifying career directions. Students are encouraged to begin the process of career planning as early as possible. Career counselors are available in the University Career Center to assist students in gaining an understanding of their own interests, values, abilities, and personalities, the nature of a liberal arts education and the related marketable skills, and the numerous career opportunities available for music majors. In addition, students are encouraged to complement their academic studies with career-related work experience such as internships, cooperative education, part-time work experience, or volunteer work.

Special Opportunities

Performance Certificate

The performance certificate is awarded by the School of Music to recognize those undergraduate music students with degree emphases other than music performance as well as those students not majoring in music. The performance certificate will allow gifted and highly motivated students to acquire additional credit, professorial interaction and guidance, and departmental distinction in music performance. Incoming freshman may demonstrate their fitness for the performance certificate during their qualifying or scholarship audition. Continuing students are eligible to enter this program by application to the coordinator of the appropriate area faculty and upon recommendation of the area faculty jury. The course of study for the certificate includes applied music registration for MUSC 211 (for 3 credits each semester) and a minimum of two semesters of MUSC 411 (for 3 credits each semester). The certificate requires a maximum of no more than 18 hours beyond the requirements of the baccalaureate program. An extended jury is required to progress from MUSC 211 to MUSC 411. The completion of the program is dependent upon the following musical equivalent to a senior thesis experience: successful completion of two half recitals or one full recital. The recital will be graded by the same criteria as a performance degree recital. The candidate’s program may be revoked by: request of candidate, action of the candidate’s jury, or action of the jury at the half or full recital. All qualifying students will receive the performance certificate upon completion of their degree. In addition to receiving the performance certificate, music majors will receive their degree “with distinction in music performance” at commencement as part of the Departmental Undergraduate Research Track.

Music Entrepreneurship Minor

Music majors may supplement their degree choice with a music entrepreneurship minor of 18 credits that will assist students in capitalizing on the artistic, economic and social power of their music education and degree; assist students to envision their musical career as a means of generating value; and assist in creating successful, entrepreneurial decision makers.

Audio Recording Minor

The minor in Audio Recording is designed to provide music students with applicable knowledge and skills in audio recording and music production. Within the context of a liberal arts degree in music, students will develop competencies in aural and music analysis, the use of audio hardware and software, microphone theory and technique, and the application of sound in media.

Minor in Music Industry Studies

The minor in Music Industry Studies is designed to prepare music and non-music students for executive and administrative careers in the music industry. Students are immersed in an interdisciplinary curriculum that provides a foundational understanding of business and the music industry. Consultation with the Undergraduate Director in the School of Music is required.

Independent Study

The school endorses the use of departmental independent study courses to further students’ intellectual pursuits in alternative ways. Before students may register for an independent study course, they must present a completed independent study contract which has been approved by the instructor selected for the independent study project, the major advisor, and the dean. No student may apply more than 15 hours of independent study credits toward the degree. Unless approved as a part of the major, minor, or cognate, independent study courses will be graded only on a Pass-Fail basis. A grade point average of 2.50 or greater is required to enroll in independent study courses.

Courses for the Nonmusic Major

Many courses in music may be taken as electives toward other University degrees. Such courses include those in music appreciation, music history and literature, music theory, group piano and voice, and private lessons. Membership in large performing organizations such as the choirs, bands, and orchestras may also
be used for elective credit. All students of the University are invited to participate in the musical organizations.

Private lessons in applied music are available to nonmusic majors on a limited basis through audition. Approval from the School of Music is necessary prior to registration. Interested students should contact the director of undergraduate studies for information about auditions.

**Minor in Music**
The minor in Music requires a three credit prerequisite (MUSC 115), 10 credits of core requirements, and eight credits chosen from music electives. Consultation with the undergraduate director in the School of Music is required.

**Minor in Music Industry Studies**
The minor in Music Industry Studies is designed to prepare music and non-music students for executive and administrative careers in the music industry. Students are immersed in an interdisciplinary curriculum that provides a foundational understanding of business and the music industry. Consultation with the Undergraduate Director in the School of Music is required.

The following courses may be used to satisfy the cognate requirements of undergraduate degrees offered by other schools and colleges on the USC campus: MUSC 115, MUSC 116, MUSC 145, and all MUSC and MUED courses numbered 200 and above.

**Music Entrepreneurship Minor**
The minor in Music Entrepreneurship is designed to assist students in capitalizing on the artistic, economic and social power of music and in creating successful, entrepreneurial decision makers.

**Curricula**
The curricula established for all baccalaureate degrees awarded by the school include a set of courses that fulfill general education requirements, a set of courses that comprise a departmental major and related courses, and several hours of elective courses. Except for courses used in meeting the Bachelor of Arts cultural awareness requirement, a course may be used to fulfill only one requirement.

**General Education Requirements**
Degree candidates in the School of Music must satisfy all general education requirements as specified in the chosen degree. These requirements are designed to provide students with a broad experience in the liberal arts and sciences and opportunities to develop intellectual skills in analysis, synthesis, and evaluation, as well as competence in written and oral communication.

Each student must complete the specified number of hours or attain the desired level of achievement in the groups of courses outlined below. Note that the credit hours required in these groups vary somewhat between the B.A. and B.M. degrees. In planning the course of study during the first two years, a student should give precedence to courses that satisfy the general education requirements. Students must complete ENGL 101 and ENGL 102 within the first 60 semester hours of work in order for these courses to be credited toward graduation.

**Major Requirements**
Every degree candidate in the school must successfully complete a major program of study that meets the major requirements of the program. A minimum grade of C is required for any course submitted for fulfillment of major requirements; this includes all MUSC and MUED courses.

Course requirements in applied music include the following minimum levels of applied study: performance, and jazz studies—four semesters at the lower-division level and four semesters at the upper-division level; music education, theory/composition—four semesters at the lower-division level and two semesters at the upper-division level; B.A.—six semesters at the lower level. The number of required credits in applied music is determined by each degree program.

**Teacher Preparation Program**
The School of Music participates in the University's teacher preparation programs. The Bachelor of Music degree with emphases in music education-choral or music education-instrumental is the approved course of study for students who plan to be certified as K-12 music teachers.

**Dual Degree**
Music students who wish to pursue a dual degree must receive the approval of the dean of music and the dean of the college in which the other degree is offered. Additional information may be found under “Academic Regulations” in this publication.

**Cognates**
In addition to satisfactorily completing all courses in the major field of study, a student in the Bachelor of Arts program must also satisfactorily complete a minimum of 12 hours in advanced courses related to but outside the major, as prescribed by the school.

The cognate is intended to support the course work in the major. Cognate courses may be drawn from one or more departments, depending on the individual interests and requirements of the student as judged by the student's advisor. A cognate differs from a minor in that the courses must be above prerequisite level and may be distributed over more than one subject area. All cognate courses must be passed with a grade of C or higher. For cognate course offerings in other departments or colleges, consult the appropriate section of this bulletin.

**Minors**
In place of the cognate a student in the Bachelor of Arts program may choose a minor consisting of at least 18 credit hours of prescribed courses. The subject area of the minor may be related to the major.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the dean.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. All minor courses must be passed with a grade of C or better. For descriptions of specific minors, students
should see appropriate sections of the bulletin and their academic advisors.

**Electives**

Electives toward credit hour requirements for all degrees in the School of Music must be in academic subjects. No courses of a remedial, developmental, or vocational nature may be applied as credit toward a degree in the School of Music. To encourage the student to select electives that will broaden the educational background and to study subjects that might otherwise be neglected, use of the Pass-Fail option is allowed on elective courses.

**Programs**

- Audio Recording Minor (p. 498)
- Music Entrepreneurship Minor (p. 498)
- Music Industry Studies Minor (p. 498)
- Music Minor (p. 498)
- Music Performance, Certificate (p. 498)

**Audio Recording Minor**

The minor in Audio Recording is designed to provide music students with applicable knowledge and skills in audio recording and music production. Within the context of a liberal arts degree in music, students will develop competencies in aural and music analysis, the use of audio hardware and software, microphone theory and technique, and the application of sound in media. Students will also learn how to apply their knowledge of acoustics in the recording studio, edit and manipulate audio, solve technical and artistic problems, and communicate with performers. Skills are developed through the execution of projects in various recording situations, studio settings, and musical genres.

**Minor Requirements (18 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 115</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 113</td>
<td>Special Topics in Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 140</td>
<td>Jazz and American Popular Music</td>
<td></td>
</tr>
<tr>
<td>MUSC 340</td>
<td>Jazz Literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 hours of Humanities</td>
<td>6</td>
</tr>
</tbody>
</table>

**Other Requirements**

- MUSC 365  | An Introduction to Audio Recording Techniques  | 3       |
- MUSC 566  | Advanced Audio Recording Techniques             | 3       |
- MUSC 567  | Fundamentals of Sound Use for Media             | 3       |
- MUSC 571  | Recording Studio Techniques                     | 3       |
- MUSC 336  | Digital Audio Technology                        | 3       |

**Total Credit Hours**

18

**Music Industry Studies Minor**

**Minor Requirements (18 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 305</td>
<td>Introduction to Music Industry Studies</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 498</td>
<td>Music Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td>MUSC 580</td>
<td>Music &amp; Arts Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 582</td>
<td>Music and Money</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three elective courses:</td>
<td>9</td>
</tr>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td></td>
</tr>
<tr>
<td>MKTG 350</td>
<td>Principles of Marketing</td>
<td></td>
</tr>
<tr>
<td>MUSC 365</td>
<td>An Introduction to Audio Recording Techniques</td>
<td></td>
</tr>
<tr>
<td>MUSC 590</td>
<td>Seminar in Music Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>MUSC 593</td>
<td>Arts Marketing</td>
<td></td>
</tr>
<tr>
<td>SPTE 202</td>
<td>Introduction to Live Entertainment Management</td>
<td></td>
</tr>
<tr>
<td>SPTE 402</td>
<td>Entertainment and the Law</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours**

17-19

1 Select at least one course offered outside of the music school.

**Music Minor**

**Minor Requirements**

**Prerequisite Courses (3 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 115</td>
<td>Music Theory I 1</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours**

3

1 May be used to fulfill the fine arts portion of the General Education Requirements.

**Core Requirements (10 Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 100</td>
<td>Recital Class</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 110</td>
<td>Introduction to Music</td>
<td>3</td>
</tr>
</tbody>
</table>
Music Electives (8 Hours)

- Ensemble
  - Maximum of four (4) additional credits.

- Applied
  - Maximum of eight (8) credits. The student may receive credit for two semesters of study at the 101 level, but must make normal progress in the applied sequence (MUSC 111, MUSC 211, MUSC 311, MUSC 411) for more than two (2) credits to be allowed toward the minor.

- Theory or history
  - 200-level or above

- Music Education
  - Any MUED course

Note
Consultation with the undergraduate director in the School of Music is required.

Music Performance, Certificate

The performance certificate is awarded by the School of Music to recognize those undergraduate music students with degree emphases other than music performance as well as those students not majoring in music. The performance certificate will allow gifted and highly motivated students to acquire additional credit, professorial interaction and guidance, and departmental distinction in music performance. Incoming freshman may demonstrate their fitness for the performance certificate during their qualifying or scholarship audition. Continuing students are eligible to enter this program by application to the coordinator of the appropriate area faculty and upon recommendation of the area faculty jury.

Certificate Requirements

The course of study for the certificate includes applied music registration for:

- MUSC 211 (for 3 credits each semester)
- MUSC 411 (for 3 credits each semester)

Additional Information

The certificate requires a maximum of no more than 18 hours beyond the requirements of the baccalaureate program. An extended jury is required to progress from MUSC 211 to MUSC 411. The completion of the program is dependent upon the following musical equivalent to a senior thesis experience: successful completion of two half recitals or one full recital. The recital will be graded by the same criteria as a performance degree recital. The candidate’s program may be revoked by: request of candidate, action of the candidate’s jury, or action of the jury at the half or full recital. All qualifying students will receive the performance certificate upon completion of their degree. In addition to receiving the performance certificate, music majors will receive their degree “with distinction in music performance” at commencement as part of the Departmental Undergraduate Research Track.

Music, B.A.

Learning Outcomes

- All BA & BM candidates will perform a series of jury exams on their primary instrument or voice. Each exam will engage the candidate in performance of a wide array of musical styles reflective of undergraduate-level literature.

- All BA & BM candidates will demonstrate fundamental piano skills, including performing, transposing, harmonizing, and sight-reading at levels appropriate for undergraduate music majors.

- All BM candidates with a performance or jazz studies emphasis will perform one half-recital and one-full recital on their primary instrument. Each recital will consist of a wide array of musical styles reflective of undergraduate-level repertoire.

- All BM candidates in music education will demonstrate the ability to plan level-appropriate lessons and execute plans successfully in authentic teaching contexts in their area of specialty (band, choir, orchestra, elementary).

Admissions

Entrance Requirements

All applicants to the School of Music must audition on their principal instrument or voice. Admission to any specific degree is dependent on the qualifying audition. A student who wishes to enter the School of Music from another college on the Columbia campus must be in good standing and have a cumulative GPA of 2.25 or higher. A student who wishes to enter the School of Music from another USC campus must fulfill one of the following:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.25 or higher.

2. Be in good standing and have completed 30 semester hours with a GPA of 2.25 or higher on a USC campus. Transfer applicants from regionally accredited colleges and universities are required to have a minimum GPA of 2.25 (on a 4.00 scale) on all college-level courses attempted. If fewer than 30 semester hours of college-level work have been attempted, the applicant must meet both transfer and freshman entrance requirements.

Degree Requirements (121 hours)

See School of Music (p. 495) for information about progression requirements, and special academic opportunities.

Additional information is available in the “Undergraduate Academic Regulations” chapter of this bulletin, the School of Music’s Handbook for Undergraduate Students, or from the Office of Music Studies.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>28-40</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>49</td>
</tr>
</tbody>
</table>
1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- two 4-credit hour CC-SCI courses (p. 743)

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required, if not already met through Carolina Core or the foreign language placement exam.

- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
must be passed with a grade of C or higher

- MUSC 115

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)

- any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy (0-3 hours)

- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility (0-3 hours)

- any overlay or stand-alone CC-VSR course (p. 743)

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (28-40 hours)

Supporting Courses (15-18 hours)

Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

History (3 hours)

- The School of Music requires one U.S. History and one non-U.S. History course, both of which must be chosen from the approved Carolina Core GHS courses. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this Program Requirement.

Social Science (3 hours)

- Choose any from the list of CC-GSS approved courses.

Humanities (9 hours)

Cognate or Minor (12-18 hours)

must be passed with a grade of C or higher

Electives (0-13 hours)

- No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the School of Music. The School of Music allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the School of Music.

4. Major Requirements (49 hours)
a minimum grade of C is required in all major courses

Major Courses (43 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSC 100</td>
<td>Recital Class</td>
<td>0</td>
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<tr>
<td>MUSC 100A</td>
<td>Music Advocacy I: Understanding the Power of Your Music</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 100L</td>
<td>Recital Class Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 116</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 117</td>
<td>Aural Skills I</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 118</td>
<td>Aural Skills II</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 215</td>
<td>Music Theory III</td>
<td>3</td>
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<tr>
<td>MUSC 216</td>
<td>Music Theory IV</td>
<td>3</td>
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<tr>
<td>MUSC 217</td>
<td>Aural Skills III</td>
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</tr>
<tr>
<td>MUSC 218</td>
<td>Aural Skills IV</td>
<td>1</td>
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<tr>
<td>MUSC 353</td>
<td>History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 354</td>
<td>History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 455</td>
<td>History of Western Music III</td>
<td>3</td>
</tr>
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</table>

Applied Music Courses

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<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 111</td>
<td>1</td>
</tr>
</tbody>
</table>

Ensembles

Select 8 hours

Total Credit Hours

37-43

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2 Must be completed satisfactorily for a minimum of six semesters & 12 hours of credit.
Students must complete a minimum of 4 semesters in a major ensemble and are required to participate in the major ensemble most closely related to their primary instrument. Students must declare a primary instrument upon acceptance into the program. The major ensembles are: Marching Band, Symphonic Winds, Wind Ensemble, University Orchestra, Concert Choir, & University Chorus. Ensembles require an audition for membership. Regulations for attendance at ensemble rehearsals & performances are different from regulations for class attendance. Members of ensembles are expected to be present at every rehearsal & performance, unless excused by the conductor. Courses which qualify for the Chamber Music requirement include all MUSC 130 courses with a suffix of A-Z and topics in: Voice, String, Percussion, Wind, Guitar, and Keyboard.

Major Electives (6 hours)
Students must complete a minimum of 6 hours of music major electives, including MUED 155 & MUED 156 (or demonstration of piano proficiency is required), if needed, or MUSC 278 for those whose primary medium is voice.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Music, B.A.

Music, B.M.
Learning Outcomes
• All BA & BM candidates will perform a series of jury exams on their primary instrument or voice. Each exam will engage the candidate in performance of a wide array of musical styles reflective of undergraduate-level literature.
• All BA & BM candidates will demonstrate fundamental piano skills, including performing, transposing, harmonizing, and sight-reading at levels appropriate for undergraduate music majors.
• All BM candidates with a performance or jazz studies emphasis will perform one half-recital and one-full recital on their primary instrument. Each recital will consist of a wide array of musical styles reflective of undergraduate-level repertoire.
• All BM candidates in music education will demonstrate the ability to plan level-appropriate lessons and execute plans successfully in authentic teaching contexts in their area of specialty (band, choir, orchestra, elementary).

Admissions
Entrance Requirements
All applicants to the School of Music must audition on their principal instrument or voice. Admission to any specific degree is dependent on the qualifying audition. A student who wishes to enter the School of Music from another USC campus must be in good standing and have a cumulative GPA of 2.25 or higher. A student who wishes to enter the School of Music from another USC campus must fulfill one of the following:
1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a cumulative GPA of 2.25 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.25 or higher on a USC campus. Transfer applicants from regionally accredited colleges and universities are required to have a minimum GPA of 2.25 (on a 4.00 scale) on all college-level courses attempted. If fewer than 30 semester hours of college-level work have been attempted, the applicant must meet both transfer and freshman entrance requirements.

Degree Requirements (128-132 hours)
See School of Music (p. 495) for information about progression requirements and special academic opportunities.

Additional information is available in the “Undergraduate Academic Regulations” chapter of this bulletin, the School of Music’s Handbook for Undergraduate Students, or from the Office of Music Studies.

Program of Study
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<tr>
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</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>0-7</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>90-94</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-8 hours)
- two CC-ARP courses (p. 743)

SCI – Scientific Literacy (7 hours)
- two CC-SCI courses (p. 743), including one 4-credit hours laboratory science

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-7 hours)
Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 110 or 121 course.
- CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
- any CC-GHS course (p. 743)
GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
must be passed with a grade of C or higher
• MUSC 115

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
• any overlay or stand-alone CC-CMS (p. 743) course

INF – Information Literacy 1 (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (0 hours)
No college-required courses for this program.

3. Program Requirements (0-7 hours)
Electives (0-7 hours)
The number of non-music electives needed depends on how Carolina Core courses are fulfilled. The number of hours of Carolina Core courses and non-music electives must equal 38 hours. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the School of Music. The School of Music allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the School of Music.

4. Major Requirements (90-94 hours)
A minimum grade of C is required in all major courses.

Major Courses (25 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 100</td>
<td>Recital Class (Students in all concentrations must complete 5 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 100A</td>
<td>Music Advocacy I: Understanding the Power of Your Music</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 100L</td>
<td>Recital Class Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 116</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 117</td>
<td>Aural Skills I</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 118</td>
<td>Aural Skills II</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 215</td>
<td>Music Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 216</td>
<td>Music Theory IV</td>
<td>3</td>
</tr>
</tbody>
</table>

MUSC 217 Aural Skills III 1
MUSC 218 Aural Skills IV 1
MUSC 333 Basic Choral and Instrumental Conducting 2
MUSC 353 History of Western Music I 3
MUSC 354 History of Western Music II 3
MUSC 455 History of Western Music III 3

Total Credit Hours 25

1 Students in the Jazz Studies Concentration must take MUSC 340 instead.

Concentration (65-69 hours)
Students must choose one of the following concentrations:

Composition Concentration (65-68 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 316</td>
<td>Music Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 336</td>
<td>Introduction to Computer Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 416</td>
<td>Music Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 515</td>
<td>Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 516</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 518</td>
<td>Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or MUSC 525</td>
<td>Post-Tonal Music Theory</td>
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</tr>
<tr>
<td>MUSC 529</td>
<td>Eighteenth-Century Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>or MUSC 530</td>
<td>Sixteenth-Century Counterpoint</td>
<td></td>
</tr>
<tr>
<td>MUSC 540</td>
<td>Projects in Computer Music</td>
<td>3</td>
</tr>
</tbody>
</table>

Foreign Language (0-3 hours)
• Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required for this concentration, if not already met through Carolina Core or the foreign language placement exam.

Fine Arts Elective (3 hours)
• any non-music Carolina Core approved AIU course

Music History and Literature Elective (3 hours)

Applied Music Courses (12 hours)
Applied Music must be completed satisfactorily for a minimum of six semesters & 12 hours of credit.
• MUSC 111 or MUSC 211
• MUSC 311 or MUSC 411

Ensembles (8 Hours)
Students are required to participate in the major ensemble (6-7 semesters/hours) most closely related to their primary instrument. Students must declare a primary instrument upon acceptance into the program. The major ensembles are: Marching Band, Symphonic Winds, Wind Ensemble, University Orchestra, Concert Choir, and University Chorus. Ensembles require an audition for membership. Regulations for attendance at ensemble rehearsals & performances are different from regulations for class attendance. Members of ensembles are expected to be present at every rehearsal & performance, unless excused by the conductor.

Courses which qualify for the Chamber Music requirement (1-2 semesters/hours) include all MUSC 130 courses with a suffix of A-Z and topics in: Voice, String, Percussion, Wind, Guitar, and Keyboard.
Concentration Electives (6 hours)
Students must complete a minimum of 6 hours of music major electives, including MUED 155 & MUED 156, if needed.

Jazz Studies Concentration (65-68 hours)
Course Title Credits
MUSC 219 Jazz Improvisation I 3
MUSC 220 Jazz Improvisation II 3
MUSC 329 Jazz Improvisation III 3
MUSC 330 Jazz Improvisation IV 3
MUSC 319 Jazz Theory I 3
MUSC 320 Jazz Theory II 3
MUSC 520 Studio Arranging and Composition 3
Total Credit Hours 21

Foreign Language (0-3 hours)
- Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required for this concentration, if not already met through Carolina Core or the foreign language placement exam.

Applied Music Courses (32 hours)
Applied Music must be completed satisfactorily for a minimum of 32 hours of credit. Students must choose one emphasis below, most closely related to their primary instrument:
- MUSC 211 (16 hours, minimum or 4 semesters)
- MUSC 411 (16 hours, minimum or 4 semesters)

Ensembles (8 hours)
Students must declare a primary instrument upon acceptance into the program. Some ensembles require an audition for membership. Regulations for attendance at ensemble rehearsals & performances are different from regulations for class attendance. Members of ensembles are expected to be present at every rehearsal & performance, unless excused by the conductor. Students may choose from either ensembles for students who play a:
- Wind Instrument: 6 semesters of MUSC 131 and 2 semesters of MUSC 130Z.
- Rhythm Section Instrument: 2 semesters of MUSC 131, 2 semesters of MUSC 130Z, and 4 semesters chosen from MUSC 135C, MUSC 131, or MUSC 130Z.

Concentration Electives (4 hours)
Students must complete a minimum of 4 hours of music major electives, including MUED 155 & MUED 156, if needed.

Note: For Bachelor of Music candidates with a concentration in Jazz Studies, a half recital is required in the junior year and a full recital is required in the senior year.

Music Education Concentrations-Choral and Instrumental (69 hours)
Professional Education Courses (22 hours)
Course Title Credits
MUED 200 Music Education Practicum 1
EDPY 401 Learners and the Diversity of Learning 3
EDTE 201 Issues and Trends in Teaching and Learning 3
EDRD 500 Content Area Literacy PK12 3

or EDEX 581 Teaching Reading in the Content Area to Adolescents with Reading Disabilities
MUED 477 Directed Teaching (Music) 12
Total Credit Hours 22

Applied Music-Primary Instrument (14 hours)
Primary Applied Lessons must be completed satisfactorily for a minimum of 7 semesters & 14 hours of credit. Choose either:

- Primary Applied Lessons
  - MUSC 111 (minimum of 4 semesters)
  - MUSC 311 (minimum or 2 semesters)

Performance Certificate
- MUSC 211 (minimum of 4 semesters)
- MUSC 411 (minimum of 2 semesters)

Emphasis (33 hours)
Choose either Choral or Instrumental.

Choral (33 hours)
Course Title Credits
MUSC 278 Introduction to Singer's Diction 2
MUSC 335 Choral Conducting 2
MUSC 577 Vocal Pedagogy 2

Music Education Courses
MUED 107 Classroom Instruments 1
MUED 335L Choral Literature Lab II 1
MUED 359 Instrumental Techniques for Choral Majors 2
MUED 465 General Music in Elementary Schools 2
MUED 465P Practicum in Elementary Music 1
MUED 467 Choral Methods and Materials 3
MUED 467P Practicum in Choral Music 1

Applied Music-Secondary Instrument
Students must complete the requirements of an area of Secondary Applied Lessons from below.

Voice Principal:
- MUED 155 Group Piano
- MUED 156 Group Piano
- MUED 355 Advanced Group Piano
- MUED 356 Advanced Group Piano

Keyboard Principal:
- MUED 165 Class Voice (Basic)
- MUED 166 Class Voice (Basic)
- MUED 265 Class Voice (Intermediate)
- MUED 266 Class Voice (Intermediate)

Ensembles
Select seven semesters of major ensemble from the following: 7
- MUSC 125 University Concert Choir
- MUSC 129 University Chorus
- MUSC 130 Ensemble (One semester of chamber music with suffix A-Z)

Total Credit Hours 33
### Instrumental (33 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUSC 334</td>
<td>Instrumental Conducting</td>
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#### Music Education Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUED 155</td>
<td>Group Piano</td>
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<tr>
<td>MUED 156</td>
<td>Group Piano</td>
<td>2</td>
</tr>
<tr>
<td>MUED 165</td>
<td>Class Voice (Basic)</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUED 465</td>
<td>General Music in Elementary Schools and Practicum in Elementary Music</td>
<td>3</td>
</tr>
<tr>
<td>MUED 454</td>
<td>Music for Young Children</td>
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</table>

### Instrument

Select one of the following:

Percussion:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUED 105</td>
<td>(Five semesters)</td>
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</tr>
<tr>
<td>or MUED 106</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUED 358</td>
<td>Strings</td>
<td></td>
</tr>
<tr>
<td>MUED 360P</td>
<td>Percussion Practicum</td>
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</tr>
<tr>
<td>MUED 551</td>
<td>The Middle School Band</td>
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<tr>
<td>MUED 552</td>
<td>The High School Band</td>
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</tr>
<tr>
<td>MUED 568</td>
<td>Organization and Administration of Music Programs</td>
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#### Ensembles

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSC 123</td>
<td>The Marching Band (minimum of two semesters)</td>
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</tr>
<tr>
<td>MUSC 124</td>
<td>Symphonic Winds (minimum of three semesters)</td>
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</tr>
<tr>
<td>or MUSC 133</td>
<td>Wind Ensemble</td>
<td></td>
</tr>
<tr>
<td>MUSC 130</td>
<td>Ensemble (with suffix A-Z; minimum of one semester)</td>
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#### Strings

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUSC 101</td>
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</tr>
<tr>
<td>MUED 104</td>
<td>Secondary Strings (Three semesters)</td>
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</tr>
<tr>
<td>MUED 360</td>
<td>Percussion Techniques</td>
<td></td>
</tr>
<tr>
<td>MUED 533</td>
<td>Methods for String Instruction I</td>
<td></td>
</tr>
<tr>
<td>MUED 533P</td>
<td>Practicum in Methods of String Instruction I</td>
<td></td>
</tr>
<tr>
<td>MUED 534</td>
<td>Methods of String Instruction II</td>
<td></td>
</tr>
<tr>
<td>MUED 534P</td>
<td>Practicum in Methods of String Instruction II</td>
<td></td>
</tr>
<tr>
<td>MUED 551</td>
<td>The Middle School Band</td>
<td></td>
</tr>
</tbody>
</table>

#### Ensembles

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 126</td>
<td>University Orchestra (minimum of six semesters)</td>
<td></td>
</tr>
<tr>
<td>MUSC 130</td>
<td>Ensemble (with suffix A-Z; minimum of one semester)</td>
<td></td>
</tr>
</tbody>
</table>

### Winds

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUED 105</td>
<td>(Four semesters)</td>
<td></td>
</tr>
<tr>
<td>or MUED 106</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUED 358</td>
<td>Strings</td>
<td></td>
</tr>
<tr>
<td>MUED 360</td>
<td>Percussion Techniques</td>
<td></td>
</tr>
<tr>
<td>MUED 551</td>
<td>The Middle School Band</td>
<td></td>
</tr>
<tr>
<td>MUED 552</td>
<td>The High School Band</td>
<td></td>
</tr>
<tr>
<td>MUED 558</td>
<td>Arranging for the Marching Band</td>
<td></td>
</tr>
</tbody>
</table>

#### Ensembles

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 123</td>
<td>The Marching Band (minimum of one semester for bassoon and oboe, minimum of two semesters all other instruments)</td>
<td></td>
</tr>
</tbody>
</table>

### MUSC 124

- Symphonic Winds (minimum of three semesters)
- or MUSC 133/Wind Ensemble

#### Total Credit Hours

33

### Performance Concentration (65-68 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 518</td>
<td>Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or MUSC 525</td>
<td>Post-Tonal Music Theory</td>
<td></td>
</tr>
</tbody>
</table>

#### Total Credit Hours

3

### Foreign Language (0-3 hours)

- Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required for this concentration, if not already met through Carolina Core or the foreign language placement exam.

### Fine Arts Elective (3 hours)

- any non-music Carolina Core approved AIU course

### Theory, History, and Literature Electives (6 hours)

Students must complete the literature course(s) in applied area when available. Courses include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 523</td>
<td>Techniques and Materials of Tonal Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 526</td>
<td>Analytical Studies</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 528</td>
<td>Seminar in Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 544</td>
<td>Topics in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 555</td>
<td>World Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 557</td>
<td>American Music</td>
<td>3</td>
</tr>
</tbody>
</table>

### Applied Music Courses (32 hours)

Applied Music must be completed satisfactorily for a minimum of 8 semesters and 32 hours of credit.

- MUSC 211 (16 hours, minimum of 4 semesters)
- MUSC 411 (16 hours, minimum of 4 semesters)

### Ensembles (8 hours)

Students are required to participate in the major ensemble most closely related to their primary instrument. Students must declare a primary instrument upon acceptance into the program. The major ensembles are: Marching Band, Symphonic Winds, Wind Ensemble, University Orchestra, Concert Choir, and University Chorus. Some ensembles require an audition for membership. Regulations for attendance at ensemble rehearsals & performances are different from regulations for class attendance. Members of ensembles are expected to be present at every rehearsal & performance, unless excused by the conductor. Courses which qualify for the Chamber Music requirement include all MUSC 130 courses with a suffix of A-Z and topics in: Voice, String, Percussion, Wind, Guitar, and Keyboard. Ensemble requirements are:

- **Guitar:** 2 major (usually choral), 6 guitar ensembles
- **Jazz:** 6 jazz ensembles, 2 major or minor jazz ensembles
- **Organ:** 4 major (usually choral), 4 accompanying
- **Piano:** 2 major, 2 accompanying, 2 chamber, 2 of choice
- **String:** 6 orchestra, 2 chamber ensembles
- **Voice:** 6 major, 2 opera workshop
- **Wind/Percussion:** 6 major 2 chamber ensembles
Concentration Electives (13 hours)
Students must complete a pedagogy course in applied area when available. Students must complete a minimum of 13 hours of music major electives, including MUED 155 & MUED 156, if needed. Students whose primary instrument is voice must complete MUSC 570, MUSC 578, and MUSC 579. Students whose primary instrument is piano must complete MUSC 573, MUSC 573L, MUSC 574, and MUSC 574L. Students whose primary instrument is guitar must complete MUSC 573 and MUSC 587. A half recital is required in the junior year & a full recital is required in the senior year.

Performance-Chamber Music Concentration (65-68 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 592</td>
<td>21st Century Musician</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 3

Music Theory Elective (3 hours)
Select one of the following:
- MUSC 319 Jazz Theory I
- MUSC 518 Form and Analysis
- MUSC 525 Post-Tonal Music Theory

Total Credit Hours 3

Chamber Music Elective (0-3 hours)
Select one of the following:
- MUSC 130 Ensemble (with suffix A-Z; three hours)
- MUSC 580 Music & Arts Entrepreneurship
- MUSC 591 Music Leadership Practicum
- MUSC 593 Arts Marketing
- MUSC 594 Independent Music Teaching Business

Total Credit Hours 0-3

Foreign Language (0-3 hours)
- Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required for this concentration, if not already met through Carolina Core or the foreign language placement exam.

Applied Music Courses (32 hours)
Applied Music must be completed satisfactorily for a minimum of 8 semesters and 32 hours of credit.
- MUSC 211 (16 hours a minimum or 4 semesters)
- MUSC 411 (16 hours a minimum of 4 semesters)

Ensembles (11-14 hours)
Students are required to participate in the major ensemble most closely related to their primary instrument. Students must declare a primary instrument upon acceptance into the program. The major ensembles are: Marching Band, Symphonic Winds, Wind Ensemble, University Orchestra, Concert Choir, and University Chorus. Some ensembles require an audition for membership. Regulations for attendance at ensemble rehearsals & performances are different from regulations for class attendance. Members of ensembles are expected to be present at every rehearsal & performance, unless excused by the conductor. Courses which qualify for the Chamber Music requirement include all MUSC 130 courses with a suffix of A-Z and topics in: Voice, String, Percussion, Wind, Guitar, and Keyboard. Ensemble requirements are:
- Guitar: 2 major (usually choral), 6 guitar ensembles
- Jazz: 6 jazz ensembles, 2 major or minor jazz ensembles
- Organ: 4 major (usually choral), 4 accompanying
- Piano: 2 major, 2 accompanying, 2 chamber, 2 of choice
- String: 6 orchestra, 2 chamber ensembles
- Voice: 6 major, 2 opera workshop
- Wind/Percussion: 6 major 2 chamber ensembles
- MUSC 130 Ensemble with suffix A-Z (3-6 hours of additional chamber music)

Chamber Music Concentration Electives (13 hours)
Students must complete a minimum of 13 hours of music major electives, including MUSC 399 (2 credits) and MUED 155 & MUED 156, if needed. Students whose primary instrument is voice must complete MUSC 278, MUSC 573, MUSC 574, and MUSC 574L. Students whose primary instrument is piano must complete MUSC 573, MUSC 573L, and MUSC 573L. Students whose primary instrument is guitar must complete MUSC 573 and MUSC 587. A half recital is required in the junior year & a full recital is required in the senior year.

Performance-Music Entrepreneurship Concentration (65-68 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 580</td>
<td>Music &amp; Arts Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 582</td>
<td>Music and Money</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 591</td>
<td>Music Leadership Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 9

Music Entrepreneurship Elective (3 hours)
Select one of the following:
- MUSC 592 21st Century Musician
- MUSC 593 Arts Marketing
- MUSC 594 Independent Music Teaching Business

Total Credit Hours 3

Foreign Language (0-3 hours)
- Demonstration of proficiency in one foreign language equivalent to the minimum passing grade on the exit examination in the 122 course is required for this concentration, if not already met through Carolina Core or the foreign language placement exam.

Applied Music Courses (32 hours)
Applied Music must be completed satisfactorily for a minimum of 8 semesters and 32 hours of credit.
- MUSC 211 (16 hours minimum of 4 semesters)
- MUSC 411 (16 hours minimum of 4 semesters)

Ensembles (8 hours)
Students are required to participate in the major ensemble most closely related to their primary instrument. Students must declare a primary instrument upon acceptance into the program. The major ensembles are: Marching Band, Symphonic Winds, Wind Ensemble, University Orchestra, Concert Choir, and University Chorus. Some ensembles require...
an audition for membership. Regulations for attendance at ensemble
rehearsals & performances are different from regulations for class
attendance. Members of ensembles are expected to be present at every
rehearsal & performance, unless excused by the conductor. Courses
which qualify for the Chamber Music requirement include all MUSC 130
courses with a suffix of A-Z and topics in: Voice, String, Percussion, Wind,
Guitar, and Keyboard. Ensemble requirements are:

- **Guitar:** 2 major (usually choral), 6 guitar ensembles
- **Jazz:** 6 jazz ensembles, 2 major or minor jazz ensembles
- **Organ:** 4 major (usually choral), 4 accompanying
- **Piano:** 2 major, 2 accompanying, 2 chamber, 2 of choice
- **String:** 6 orchestra, 2 chamber ensembles
- **Voice:** 6 major, 2 opera workshop
- **Wind/Percussion:** 6 major 2 chamber ensembles

**Concentration Electives (13 hours)**
Students must complete a pedagogy course in applied area when
available. Students must complete a minimum of 13 hours of music
major electives, including MUSC 399 (2 credits) and MUED 155 &
MUED 156, if needed. Students whose primary instrument is voice
must complete MUSC 570, MUSC 578, and MUSC 579. Students whose
primary instrument is piano must complete MUSC 573, MUSC 573L,
MUSC 574, and MUSC 574L. Students whose primary instrument is
guitar must complete MUSC 573 and MUSC 587. After advancing to the
upper division of applied study, students will participate in an Innovation
Recital. A half recital is required in the junior year, and will include
program notes, a professional headshot and short biography prepared by
the student. A full recital involving a secondary focus is required in the
senior year. A senior jury project is required in the non-recital semester
of the senior year. The project will include high quality audio and video
recordings as well as an electronic press kit.

**Performance-Music Technology Concentration (65-68 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 336</td>
<td>Introduction to Computer Music</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 3

**Music Technology Electives (9 hours)**
Select nine hours of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 365</td>
<td>An Introduction to Audio Recording Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 540</td>
<td>Projects in Computer Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 565</td>
<td>Advanced Audio Recording Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 580</td>
<td>Music &amp; Arts Entrepreneurship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 9

**Foreign Language (0-3 hours)**
- Demonstration of proficiency in one foreign language equivalent to
  the minimum passing grade on the exit examination in the 122 course
  is required for this concentration, if not already met through Carolina
  Core or the foreign language placement exam.

**Applied Music Courses (32 hours)**
Applied Music must be completed satisfactorily for a minimum of 8
semesters and 32 hours of credit.

- MUSC 211 (16 hours, minimum of 4 semesters)
- MUSC 411 (16 hours, minimum of 4 semesters)

**Ensembles (8 hours)**
Students are required to participate in the major ensemble most closely
related to their primary instrument. Students must declare a primary
instrument upon acceptance into the program. The major ensembles are:
Marching Band, Symphonic Winds, Wind Ensemble, University
Orchestra, Concert Choir, and University Chorus. Some ensembles require
an audition for membership. Regulations for attendance at ensemble
rehearsals & performances are different from regulations for class
attendance. Members of ensembles are expected to be present at every
rehearsal & performance, unless excused by the conductor. Courses
which qualify for the Chamber Music requirement include all MUSC 130
courses with a suffix of A-Z and topics in: Voice, String, Percussion, Wind,
Guitar, and Keyboard. Ensemble requirements are:

- **Guitar:** 2 major (usually choral), 6 guitar ensembles
- **Jazz:** 6 jazz ensembles, 2 major or minor jazz ensembles
- **Organ:** 4 major (usually choral), 4 accompanying
- **Piano:** 2 major, 2 accompanying, 2 chamber, 2 of choice
- **String:** 6 orchestra, 2 chamber ensembles
- **Voice:** 6 major, 2 opera workshop
- **Wind/Percussion:** 6 major 2 chamber ensembles

**Concentration Electives (13 hours)**
Students must complete a pedagogy course in applied area when
available. Students must complete a minimum of 13 hours of music
major electives, including MUSC 399 (2 credits) and MUED 155 &
MUED 156, if needed. Students whose primary instrument is voice
must complete MUSC 570, MUSC 578, and MUSC 579. Students whose
primary instrument is piano must complete MUSC 573, MUSC 573L,
MUSC 574, and MUSC 574L. Students whose primary instrument is
guitar must complete MUSC 573 and MUSC 587. After advancing to the
upper division of applied study, students will participate in an Innovation
Recital. A half recital is required in the junior year, and will include
program notes, a professional headshot and short biography prepared by
the student. A full recital involving a secondary focus is required in the
senior year. A senior jury project is required in the non-recital semester
of the senior year. The project will include high quality audio and video
recordings as well as an electronic press kit.

**Theory Concentration (65-68 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 316</td>
<td>Music Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 336</td>
<td>Introduction to Computer Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 416</td>
<td>Music Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 515</td>
<td>Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 518</td>
<td>Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 525</td>
<td>Post-Tonal Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 529</td>
<td>Eighteenth-Century Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 530</td>
<td>Sixteenth-Century Counterpoint</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 24

**Foreign Language (0-3 hours)**
- Demonstration of proficiency in one foreign language equivalent to
  the minimum passing grade on the exit examination in the 122 course
  is required for this concentration, if not already met through Carolina
  Core or the foreign language placement exam.

**Fine Arts Elective (3 hours)**
- any non-music Carolina Core approved AIU course
Music History and Literature Elective (6 hours)
Technology Elective (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 365</td>
<td>An Introduction to Audio Recording Techniques</td>
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<td>MUSC 540</td>
<td>Projects in Computer Music</td>
<td></td>
</tr>
<tr>
<td>MUSC 565</td>
<td>Advanced Audio Recording Techniques</td>
<td></td>
</tr>
<tr>
<td>MUSC 571</td>
<td>Digital Audio Technology</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 3

Applied Music Courses (12 hours)
Applied Music must be completed satisfactorily for a minimum of six semesters & 12 hours of credit.

- MUSC 111 (minimum of four semesters) or MUSC 211
- MUSC 311 (minimum of two semesters) or MUSC 411

Ensembles (8 hours)
Students are required to participate in the major ensemble (6-7 semesters/hours) most closely related to their primary instrument. Students must declare a primary instrument upon acceptance into the program. The major ensembles are: Marching Band, Symphonic Winds, Wind Ensemble, University Orchestra, Concert Choir, and University Chorus. Some ensembles require an audition for membership. Regulations for attendance at ensemble rehearsals & performances are different from regulations for class attendance. Members of ensembles are expected to be present at every rehearsal & performance, unless excused by the conductor.

Courses which qualify for the Chamber Music requirement (1-2 semesters/hours) include all MUSC 130 courses with a suffix of A-Z and topics in: Voice, String, Percussion, Wind, Guitar, and Keyboard.

Concentration Electives (9 hours)
Students must complete a minimum of 9 hours of music major electives, including MUED 155 & MUED 156, if needed.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Music, B.M. Composition Concentration
Music, B.M. Jazz Studies Concentration
Music, B.M. Music Education-Choral Concentration
Music, B.M. Music Education-Instrumental (Percussion) Concentration
Music, B.M. Music Education-Instrumental (Strings) Concentration
Music, B.M. Music Education-Instrumental (Winds) Concentration
Music, B.M. Performance Concentration
Music, B.M. Performance-Chamber Music Concentration
Music, B.M. Performance-Music Entrepreneurship Concentration
Music, B.M. Performance-Music Technology Concentration
Music, B.M. Theory Concentration
Progression Requirements

BSN in Nursing Generic (Pre-Licensure) Program

Lower Division

All students in the lower division in the baccalaureate program are subject to the following regulations:

1. Students must maintain a minimum 3.00 institutional GPA in order to maintain good standing in the nursing program. Grades are reviewed at the end of each semester. Students who have less than a 3.00 institutional GPA are placed on probation within the college for one major semester or 12 credit hours but may continue to take all required courses. If at the end of the probationary semester their institutional GPA is still less than a 3.00, students must change their major before the next semester and will not be advised by the College of Nursing. Students must contact the University Advising Center.

2. All incomplete grades posted on the transcript must be removed before progression into the upper division can be considered.

3. Students must earn a minimum grade of C in all required courses in the nursing program. Only one below C grade is allowed in a required science or nursing (NURS) course to remain eligible for the nursing major. Any science course that needs to be repeated must be taken within the UofSC System. All nursing courses that need to be repeated must be taken at UofSC Columbia.

4. In order to progress to sophomore-level coursework and enroll in BIOL 250, BIOL 250L, NURS 212 and NURS 216 students must successfully complete designated courses with a 3.00 average to include all attempts. Designated courses include: ENGL 101, ENGL 102, PSYC 101 or SOCY 101, PSYC 420, CHEM 102, BIOL 243, BIOL 243L, BIOL 244, BIOL 244L, and STAT 112 (or Nursing approved competency equivalents).

Students entering the university and meeting South Carolina Honors College (SCHC) admission criteria have a one-time opportunity, at the point of freshman admission only, to come into the Smart Start Nursing Program, a partnership between the College of Nursing and the South Carolina Honors College. Students admitted into the Smart Start Nursing Program are directly admitted into Upper Division of the Nursing Program contingent upon meeting all SCHC and College of Nursing academic standards criteria and completion of all upper division application progression requirements.

Upper Division

Progression into upper division nursing for pre-licensure students occurs in the summer and fall students should be prepared to start upper division in a summer term. There is no guarantee that students will get placed in their term of preference. In addition, students are encouraged to look into their financial aid/scholarship/funding sources in preparation for their upper division start. Fifty percent of admitted students will be placed into the summer cohort. Fifty percent of admitted students will be placed into the fall cohort. Once selection has been made there will be no changes to the cohorts. GPA standing does not guarantee placement in your term of preference. Students who wish to apply to upper division nursing must have a completed parallel plan on file with their nursing advisor and submit a completed College of Nursing Progression Application no later than Nov. 1 for the following summer or fall semester in which registration is desired. In addition, students must also complete an interview/essay as part of their application. Progression is competitive, based on progression GPA and interview/essay. Progression to upper division is limited to a set number of qualified students based on available clinical faculty and placement sites. Factors considered in the progression decision include:

1. A minimum institutional grade point average of 3.00 or better.
2. A grade of C or better in all required courses in the nursing program.
3. Progression GPA which includes grades on all attempts of designated courses listed above with the addition of BIOL 250, BIOL 250L, NURS 212, and NURS 216 (or Nursing approved competency equivalents).
4. Interview and/or essay evaluation.

Note: all applicants will complete the same evaluation metrics.

Students must have a completed application on file, provide evidence of successful completion of remaining lower division coursework, be admitted to the upper division, have completed all required clinical healthcare information, and confirmed acceptance of their seat prior to registering for their first upper division nursing courses (300 level).

A minimum grade of C is required in each nursing course. Only one upper division nursing course may be repeated once to earn a grade of C or better to remain eligible for the nursing major. All students must maintain a minimum 3.00 institutional GPA in order to maintain good standing in the nursing program. Grades are reviewed at the end of each semester. Students who have less than a 3.00 institutional GPA in all coursework are placed on probation within the college for one semester but may continue to take all required courses. If at the end of the probationary semester their institutional GPA is still less than 3.00, students are administratively removed from the nursing major.
All students must achieve satisfactory performance on selected comprehensive achievement tests to progress through the upper division.

Smart Start Nursing Program students should see previous section for progression requirements.

### RN-BSN Program

Students must apply directly to the RN-BSN program for admission to the university. Admission is competitive, based on GPA, RN licensure, and degree completion from an ACEN accredited institution. Other admission requirements are discussed in the previous section.

Only one upper division nursing course may be repeated once to earn a grade of C or better to remain eligible for the nursing major. A minimum grade of C is required in all other nursing courses. All students must maintain a minimum 3.00 institutional GPA in order to maintain good standing in the nursing program. Grades are reviewed at the end of each semester. Students who have less than a 3.00 institutional GPA are placed on probation within the college for one semester but may continue to take all required courses. If at the end of the probationary semester their institutional GPA is still less than 3.00, students are administratively removed from the RN-BSN program.

### Attendance Requirements

The College of Nursing adheres to the University’s attendance policy for classroom didactic instruction. “Absence from more than 15 percent of the scheduled hours that a class meets for instructional purposes is excessive, and the instructor may choose to exact a grade penalty for absences beyond this threshold. Faculty members are not required to track students who miss only part of a class session; tardy arrival to (or early departure from) a class meeting may be counted as absence for the entire class duration. Make-up time for missed clinical nursing experiences will be determined at the discretion of the faculty and availability of clinical facilities. Faculty may require withdrawal of any student who has missed sufficient practice to prevent completion of clinical objectives.

RN-BSN students must also comply with the attendance policy. Attendance is evaluated based on active engagement in the online classroom. RN-BSN students are required to attend a face-to-face clinical capstone experience at an approved clinical site in their local community or Columbia, SC.

### Other Regulations

#### Readmission

A student who has been suspended or has withdrawn from the College of Nursing and subsequently readmitted will be subject to the current College of Nursing academic standards and available space in courses.

#### Waiver of academic standards

Any student seeking relief from academic standards shall petition the College of Nursing to waive specific standards or regulations. Information on procedures may be obtained from the College of Nursing Office of Academic Affairs.

#### Grade Forgiveness

Grade forgiveness does not apply to GPA calculation for admission to upper division in the nursing program. Any forgiveness grades will be reentered into the GPA calculations. The College of Nursing does not recognize grade forgiveness in determination of College of Nursing academic standing. This policy also applies to the RN-BSN degree program.

### University Grade Forgiveness Policy (http://www.sc.edu/about/offices_and_divisions/registrar/transcripts_and_records/grade_forgiveness/)

### Clinical Health Requirements

In addition to the regulations of the University as a whole, the following requirements apply to students in the nursing program. Please also refer to the College of Nursing BSN Handbook for specific requirements.

Information on all clinical requirements is available in the College of Nursing Office of Academic Affairs. Current clinical health information must be on file with approved vendor by specified deadlines. Admission and matriculation into the upper division in the College of Nursing is contingent on successfully passing a drug screen and background check in addition to other clinical requirements. Students are not eligible to register for classes and cannot participate in practice activities at clinical sites until this information is on file. Students are encouraged to have health insurance coverage throughout the course of their studies.

### Special Requirements and Associated Expenses

Students enrolled in nursing courses with a lab or practicum must carry professional liability insurance purchased in conjunction with the courses; one-time expenses include nursing uniforms and clinical equipment and supplies. Maintenance of current CPR certification during enrollment in clinical courses is required. All students shall complete selected achievement tests, primarily in the upper division, and an NCLEX review course during the final semester.

### Transportation to clinical practice sites

Each student should have a valid driver’s license and be responsible for transportation to and from hospitals and other clinical practice sites in both urban and rural areas. Sites used for clinical experiences are usually confined to the eleven-county Greater Midlands area of the state.

### Application for Licensure in Professional Nursing

Prior to completion of the second semester of the senior year, students are expected to apply for the professional nursing licensing examination, which is administered by the State Board of Nursing for South Carolina or its counterpart in the jurisdiction where the student will seek initial employment after graduation. Students in the College of Nursing are also bound to conduct themselves according to the professional standards set forth by the American Nurses Association Code for Nurses. Conviction of a crime other than a minor traffic violation could result in ineligibility for professional licensure. Under these circumstances, early notification to the Board of Nursing is recommended to clarify mechanisms related to eligibility determination.
Curriculum

BSN in Nursing Generic (Pre-Licensure)
The baccalaureate curriculum provides for eight semesters of study in general education and professional nursing. Upon admission, students are assigned an advisor to guide planning throughout the program. Students should obtain guidance in the selection of courses as early as possible.

Computer skills are required throughout the curriculum. Skills required for class assignments and clinical practice include: word processing, computerized assisted instruction, e-mail, Web access, Internet searches, database searches, computerized patient documentation, and computerized medical equipment.

The upper division focuses on clinical practice and requires full-time study. Clinical practice is supported by concurrent classroom study. Students practice in a variety of settings such as hospitals, extended-care facilities, nursing homes, clinics, schools, and other community agencies.

The Bachelor of Science in Nursing degree requires a minimum of 120 hours. These credits are distributed between general education requirements and electives, and professional nursing requirements. All lower division requirements must be completed before progressing to upper division courses. Upper division courses must be taken in sequence as outlined in the Undergraduate Student Handbook.

RN-BSN Program (Post-Licensure)
The Bachelor of Science in Nursing degree (RN-BSN Completion) requires a minimum of 120 hours. These credits are distributed between general education requirements and electives, and professional nursing requirements. Lower division pre-requisite course requirements can be completed before progressing to upper division RN-BSN courses.

After admission to the RN-BSN program and completion of all BSN degree requirements: Students awarded an Associate Degree in Nursing (ADN) from an accredited (ACEN, formerly NLNAC) program or Students with an Diploma in Nursing from an accredited (ACEN, formerly NLNAC) program will be awarded up to 38 credits towards meeting educational competencies for their degree (RN Licensure). Number of credits awarded will be determined after careful review of student transcript and program of study degree requirements (RN Licensure). Additional coursework may be needed to satisfy outstanding credits not met by ADN or Diploma degree. Education competency credits are held and will be awarded upon successful completion of all BSN degree requirements.

UofSC Residency requirements for BSN Graduation:

The last 25% of a students’ degree must be completed in residence (meaning through UofSC Columbia coursework or other UofSC campus), and at least half of the hours in the student’s major and minor courses (if applicable) must be taken at the University, i.e. (120 credits = 30 hours). Advanced placement exam credits or transfer credits do not meet this requirement. Students must meet these requirements to be eligible for BSN graduation.

Nursing-Generic, B.S.N.

Learning Outcomes

• Provide evidence-based, culturally sensitive, clinically competent care across the continuum of care.
• Use information and health care technologies to assist in making clinical judgments using reflection, critical thinking, and problem-solving skills for effective health care delivery.
• Exhibit professional behavior while working as a member of an interprofessional healthcare team and in all other settings.
• Perform the professional roles of care provider, care coordinator, leader, member of a profession, and life-long learner.

Admissions

Entrance Requirements

BSN Program (Pre-Licensure)
Lower Division

In order to be admitted into the College of Nursing, freshmen must meet all University and College of Nursing admission requirements. Acceptance into the University with a lower division classification does not guarantee progression into the upper division nursing major. Students who consider studying nursing at Carolina need to be aware that all UofSC undergraduates who seek a nursing degree are first admitted into the College of Nursing's pre-nursing lower division. This does not guarantee later admission into the upper division.1 Students enrolled in the lower division must meet minimum upper division admission standards set forth by the College of Nursing. Once minimum criteria are met, all qualified applicants are placed into an applicant group and are evaluated, using the same criteria, by their progression grade point averages and essay and/or interview criterion for a total evaluation metric. Based on the number of available seats and available clinical sites, students are admitted based on results of the total evaluation metrics. In recent years admission to the upper division has become highly competitive as demand for the program of study has increased and therefore, the average evaluation metrics will change from cohort to cohort.

To be considered for admission into pre-nursing lower division of the BSN in Nursing generic (pre-licensure) program, transfer students must have a minimum 3.000 overall GPA in their college level coursework. In addition, any below C grades in nursing or science courses will eliminate you from consideration. See major specific transfer information on the admissions website.

NURS courses will not be accepted for transfer to the BSN in Nursing generic (pre-licensure).

To be eligible for the upper division, transfer students must meet the College of Nursing requirements for progression through completion of the lower division science and nursing courses. All entering students are expected to have basic computer skills.

Effective Fall 2020 and After:

• Prerequisite BSN science courses must be completed within 7 years of starting upper division coursework, or 8 years if have continuous fall/spring higher education enrollment. Every attempt at science courses within the last 7 years will be included in progression GPA calculation, or 8 years if have continuous fall/spring higher education enrollment.
• Once a student has begun upper division coursework, they must complete the BSN degree within 5 years.
• Every attempt at science courses within the last 7 years will be included in the progression GPA calculation.

Smart Start Program
Students entering the university and meeting South Carolina Honors College (SCHC) admission criteria have a one-time opportunity, at the point of freshman admission only, to enroll in the Smart Start Nursing Program, a partnership between the College of Nursing and the South Carolina Honors College. Students admitted into Smart Start are directly admitted into Upper Division of the Nursing Program contingent upon meeting all SCHC and College of Nursing academic standards criteria and completion of all upper division application progression requirements.

Smart Start students who are not successful with meeting upper division application requirements will lose their direct admit status but will remain eligible for admission under the competitive upper division admissions process.

RN-BSN Program (Post-Licensure)
In order to be eligible for the RN-BSN program, students must meet all the admission requirements of the College of Nursing and University. Specific RN-BSN program admission requirements are as follows:

• An Associate Degree in Nursing or Diploma in Nursing from an accredited ACEN (formerly NLNAC) program
• Official Transcripts from all schools attended
• Application
• Application Fee
• English Proficiency Requirement
• Other Supporting Materials - Criminal Background check and drug screen
• Current unrestricted Registered Nurse (RN) license to practice professional nursing in the United States
• Minimum Nursing (Previous Associate or Diploma) Degree GPA of 3.000

1 International applicants must be proficient in the English language. A score of 550 or above on the paper version of the TOEFL (Test of English as a Foreign Language) is required. (A score of 210 or higher on the computerized version is required, and a minimum score of 77 on the Internet version is required.) TOEFL scores are not required for international students from countries where the primary language of instruction is English nor from graduates of high schools in the United States.

2 Students with a life GPA between 2.8 - 2.99 may be conditionally admitted, provided they have not completed more than 120 hours of prior collegiate coursework and have met all other admission requirements.

Degree Requirements (120 hours)
See College of Nursing (p. 508) for progression requirements and other regulations.

Program of Study
all degree requirements must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core Requirements</td>
<td>31-37</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>7</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>11-15</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>67</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (31-37 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
• ENGL 101
• ENGL 102

ARP – Analytical Reasoning and Problem Solving (6 hours)
• STAT 112
• STAT 205

SCI – Scientific Literacy (7 hours)
• CHEM 102
• BIOL 206

Note: CHEM 102 is a pre-requisite course for nursing courses.

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstrate proficiency in a foreign language by achieving a score of two or higher on the Foreign Language Placement Test or by completing one Foreign Language through 110 or 121.
• CC-GFL courses (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
• PSYC 101

AIU – Aesthetic and Interpretive Understanding (3 hours)
• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)
• PHIL 213

INF – Information Literacy (0-3 hours)
• Fulfilled through STAT 112/ENGL 102, overlay courses with ARP/CMW

VSR – Values, Ethics, and Social Responsibility (0-3 hours)
• Fulfilled through PHIL 213, an overlay course with CMS
Major Courses (67 hours)

4. Major Requirements (67 hours)

As needed to meet minimum 120 hours required for graduation.

Electives (0-4 hours)

As needed to meet minimum 120 hours required for graduation.

2. College Requirements (7 hours)

- BIOL 250 & BIOL 250L
- PSYC 420

3. Program Requirements (11-15 hours)

Supporting Courses (11 hours)

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<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BIOL 243 &amp; 243L</td>
<td>Human Anatomy and Physiology I and Human Anatomy and Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 244 &amp; 244L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology Laboratory</td>
<td>4</td>
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<tr>
<td>SOCY 101</td>
<td>Introductory Sociology</td>
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</table>

Total Credit Hours 11

4. Major Requirements (67 hours)

Major Courses (67 hours)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<td>NURS 112</td>
<td>Introduction to the Profession of Nursing: Focus on Roles and Opportunities</td>
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</tr>
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<td>NURS 212</td>
<td>Evolution of Nursing Science</td>
<td>2</td>
</tr>
<tr>
<td>NURS 216</td>
<td>Biophysical Pathology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 220</td>
<td>Clinical Nutrition</td>
<td>3</td>
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<td>NURS 311</td>
<td>Introduction to Health Assessment</td>
<td>3</td>
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<tr>
<td>NURS 312</td>
<td>Foundations of Nursing Practice</td>
<td>5</td>
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<td>NURS 313</td>
<td>Nursing Care of the Older Adult</td>
<td>3</td>
</tr>
<tr>
<td>NURS 314</td>
<td>Clinical Reasoning in Nursing Practice</td>
<td>2</td>
</tr>
<tr>
<td>NURS 324</td>
<td>Chemical Therapeutics</td>
<td>3</td>
</tr>
<tr>
<td>NURS 400</td>
<td>Evidence-based Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 411</td>
<td>Psychiatric/Mental Health Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NURS 412</td>
<td>Acute Care Nursing of Adults I</td>
<td>5</td>
</tr>
<tr>
<td>NURS 422</td>
<td>Acute Care Nursing of Adults II</td>
<td>5</td>
</tr>
<tr>
<td>NURS 424</td>
<td>Maternal/Newborn Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NURS 425</td>
<td>Nursing of Children and Families</td>
<td>4</td>
</tr>
<tr>
<td>NURS 428</td>
<td>Nursing Leadership and Management</td>
<td>4</td>
</tr>
<tr>
<td>NURS 431</td>
<td>Population Health Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NURS 435</td>
<td>Senior Nursing Capstone Practicum</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Credit Hours 67

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Nursing-Generic, B.S.N.

Learning Outcomes

- Provide evidence-based, culturally sensitive, clinically competent care across the continuum of care.
- Use information and health care technologies to assist in making clinical judgments using reflection, critical thinking, and problem-solving skills for effective health care delivery.
- Exhibit professional behavior while working as a member of an interprofessional healthcare team and in all other settings.
- Perform the professional roles of care provider, care coordinator, leader, member of a profession, and life-long learner.

Admissions

Entrance Requirements

BSN Program (Pre-Licensure)

Lower Division

In order to be admitted into the College of Nursing, freshmen must meet all University and College of Nursing admission requirements. Acceptance into the University with a lower division classification does not guarantee progression into the upper division nursing major. Students who consider studying nursing at Carolina need to be aware that all UofSC undergraduates who seek a nursing degree are first admitted into the College of Nursing’s pre-nursing lower division. This does not guarantee later admission into the upper division.¹ Students enrolled in the lower division must meet minimum upper division admission standards set forth by the College of Nursing. Once minimum criteria are met, all qualified applicants are placed into an applicant group and are evaluated, using the same criteria, by their progression grade point averages and essay and/or interview criterion for a total evaluation metric. Based on the number of available seats and available clinical sites, students are admitted based on results of the total evaluation metrics. In recent years admission to the upper division has become highly competitive as demand for the program of study has increased and therefore, the average evaluation metrics will change from cohort to cohort.

To be considered for admission into pre-nursing lower division of the BSN in Nursing generic (pre-licensure) program, transfer students must have a minimum 3.000 overall GPA in their college level coursework. In addition, any below C grades in nursing or science courses will eliminate you from consideration. See major specific transfer information on the admissions website.

NURS courses will not be accepted for transfer to the BSN in Nursing generic (pre-licensure).
To be eligible to apply for the upper division, transfer students must meet the College of Nursing requirements for progression through completion of the lower division science and nursing courses. All entering students are expected to have basic computer skills.

**Effective Fall 2020 and After:**
- Prerequisite BSN science courses must be completed within 7 years of starting upper division coursework, or 8 years if have continuous fall/spring higher education enrollment. Every attempt at science courses within the last 7 years will be included in progression GPA calculation, or 8 years if have continuous fall/spring higher education enrollment.
- Once a student has begun upper division coursework, they must complete the BSN degree within 5 years.
- Every attempt at science courses within the last 7 years will be included in the progression GPA calculation.

**Smart Start Program**
¹Students entering the university and meeting South Carolina Honors College (SCHC) admission criteria have a one-time opportunity, at the point of freshman admission only, to enroll in the Smart Start Nursing Program, a partnership between the College of Nursing and the South Carolina Honors College. Students admitted into Smart Start are directly admitted into Upper Division of the Nursing Program contingent upon meeting all SCHC and College of Nursing academic standards criteria and completion of all upper division application progression requirements.

Smart Start students who are not successful with meeting upper division application requirements will lose their direct admit status but will remain eligible for admission under the competitive upper division admissions process.

**RN-BSN Program (Post-Licensure)**
In order to be eligible for the RN-BSN program, students must meet all the admission requirements of the College of Nursing and University. Specific RN-BSN program admission requirements are as follows:
- An Associate Degree in Nursing or Diploma in Nursing from an accredited ACEN (formerly NLNAC) program
- Official Transcripts from all schools attended
- Application
- Application Fee
- English Proficiency Requirement¹
- Other Supporting Materials - Criminal Background check and drug screen
- Current unrestricted Registered Nurse (RN) license to practice professional nursing in the United States
- Minimum Nursing (Previous Associate or Diploma) Degree GPA of 3.000²

¹Pre-requisite course for nursing courses.

²International applicants must be proficient in the English language. A score of 550 or above on the paper version of the TOEFL (Test of English as a Foreign Language) is required. (A score of 210 or higher on the computerized version is required, and a minimum score of 77 on the internet version is required.) TOEFL scores are not required for international students from countries where the primary language of instruction is English nor from graduates of high schools in the United States.

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**Degree Requirements (120 hours)**

**Program of Study**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
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<tr>
<td>2. College Requirements</td>
<td>7</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>38-50</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>28</td>
</tr>
</tbody>
</table>

1. **Carolina Core Requirements (32-44 hours)**

- CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
  - ENGL 101
  - ENGL 102

- ARP – Analytical Reasoning and Problem Solving (6 hours)
  - STAT 112
  - STAT 205

  Note: May substitute for STAT 201 for STAT 205.

2. **SCI – Scientific Literacy (8 hours)**

- BIOL 243¹
- BIOL 243L¹
- BIOL 244¹
- BIOL 244L¹

1Pre-requisite course for nursing courses.

3. **GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)**

Demonstrate proficiency in a foreign language by achieving a score of two or higher on the Foreign Language Placement Test or by completing one Foreign Language through 110 or 121.

- CC-GFL courses (p. 743)

4. **GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**

- any CC-GHS course (p. 743)

5. **GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**

- PSYC 101

6. **AIU – Aesthetic and Interpretive Understanding (3 hours)**

- any CC-AIU course (p. 743)
CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (0-3 hours)
• any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy ¹ (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)
• any overlay or stand-alone CC-VSR course (p. 743)

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (7 hours)
Must be passed with a grade of C or higher.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 250</td>
<td>Microbiology</td>
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<tr>
<td>BIOL 250L</td>
<td>Microbiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 420</td>
<td>Survey of Developmental Psychology</td>
<td>3</td>
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</tbody>
</table>

Total Credit Hours 7

3. Program Requirements (38-50 hours)
Supporting Course (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCY 101</td>
<td>Introductory Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 3

Licensure Exam Credit (up to 38 hours)
After admission to the RN-BSN program and completion of all BSN degree requirements: Students awarded an Associate Degree in Nursing (ADN) from an accredited (ACEN, formerly NLNAC) program or Students with a Diploma in Nursing from an accredited (ACEN, formerly NLNAC) program will be awarded up to 38 credits towards meeting educational competencies for their degree (RN Licensure). Number of credits awarded will be determined after careful review of the student transcript and program of study requirements (RN Licensure). Additional coursework may be needed to satisfy outstanding credits not met by ADN or Diploma degree. Education competency credits are held and will be awarded upon successful completion of all BSN degree requirements.

Electives (0-12 hours)
As needed to meet minimum 120 hours required for graduation. More than 12 hours may be required depending upon credit given for Licensure Exam.

4. Major Requirements (28 hours)
A minimum grade of C is required in all major courses.

Major Courses (28 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Upper Division Courses ¹</td>
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<tr>
<td>NURS 250</td>
<td>Nursing Science in Professional Practice</td>
<td>3</td>
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<td>NURS 309</td>
<td>Nursing Health Assessment</td>
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<td>NURS 313</td>
<td>Nursing Care of the Older Adult</td>
<td>3</td>
</tr>
<tr>
<td>NURS 318</td>
<td>Application of Pathophysiology and Pharmacology in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 400</td>
<td>Evidence-based Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 420</td>
<td>Emerging Issues in Health Care</td>
<td>3</td>
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<td>NURS 428</td>
<td>Nursing Leadership and Management</td>
<td>4</td>
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<td>NURS 431</td>
<td>Population Health Nursing</td>
<td>3-4</td>
</tr>
<tr>
<td>NURS 434</td>
<td>Community-Based Clinical Practicum for RNs</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 28-29

¹ Courses are offered in 7-week blocks in an online format

USC Residency Requirements for BSN Graduation
The last 25% of a student’s degree must be completed in residence (meaning through USC Columbia coursework or other USC campus), and at least half of the hours in the student’s major and minor courses (if applicable) must be taken at the University, i.e. 122 credits = 31 hours. Advanced placement exam credits or transfer credits do not meet this requirement. Students must meet these requirements to be eligible for BSN graduation.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Nursing-R.N., B.S.N.
Degree Offered
Pre-Pharmacy students at the University of South Carolina will complete prerequisite (Pre-pharmacy curriculum) studies in order to prepare them for entry into a Doctor of Pharmacy (PharmD) program. Pre-Pharmacy at the University of South Carolina is not a degree-seeking major, but instead a course of study to meet the pre-requisites for entry into a PharmD program. Please refer to the USC College of Pharmacy Bulletin website (http://www.sc.edu/study/colleges_schools/pharmacy/) for professional school information. The professional PharmD degree requires six academic years.

Pharmaceutical Sciences, B.S.
The B.S. in Pharmaceutical Sciences is a major designed for students who intend to pursue the Doctor of Pharmacy (Pharm.D.) at the USC College of Pharmacy. Students must be accepted into the Pharm. D. program at the USC College of Pharmacy their junior or senior year to meet the requirements for the B.S. in Pharmaceutical Sciences.

The B.S. in Pharmaceutical Sciences is awarded at the end of the spring semester of the second year in the Pharm.D. program.

Click here (http://sc.edu/study/colleges_schools/pharmacy/application_process/pharm_d_applicants/admission_requirements/) for admissions requirements for the Doctor of Pharmacy (Pharm.D.) program.

The sequencing of the required math and science courses is particularly important for ensuring that all prerequisites can be completed before entering the Pharm.D. program.

Admissions
In addition to the general requirements for admission to the University, all students admitted to the Pre-Pharmacy and/or professional pharmacy program must meet the following specialized requirements of the College of Pharmacy:

Pre-Pharmacy
Any entering freshman student who wishes to pursue a pharmacy degree and who fulfills general requirements for admission to the University will be accepted into the pharmaceutical sciences (pre-pharmacy) program of study. Pre-pharmacy students within the University will be advised by pre-pharmacy advisors.

Grade Requirement
All courses in the pre-pharmacy curriculum must be passed with a grade of C or better.

Academic Standing
All pre-pharmacy students are subject to the same regulations regarding scholastic deficiency and academic suspension as defined for undergraduate students by the University.

Other Regulations
Any student seeking an exception to the academic standards may petition the College of Pharmacy, a petition may be approved or denied based on the merits of the individual situation. Information on procedures may be obtained from the Office of the Dean.

Transfer Admission (Pre-Pharmacy)
1. Students enrolled in other colleges on the Columbia campus must have a minimum cumulative GPA of 3.00 and must have at least 12 USC credit hours.
2. Students from other USC campuses must have a cumulative GPA of 3.00 and must have taken at least 12 USC credit hours. Additionally, students from other USC campuses who have fewer than 30 semester hours must also meet Columbia campus freshman admission requirements.
3. Transfer students from other accredited institutions must present a minimum cumulative GPA of 3.00 on all college work taken. Students who have fewer than 30 semester hours of college work must also meet Columbia campus freshman admission requirements.

Degree Requirements (minimum 128 hours)
The Pre-Pharmacy work must total at least 66 hours.

Program of Study
all degree requirements must be passed with a grade of C or higher

<table>
<thead>
<tr>
<th>Requirements</th>
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</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
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<td>3. Program Requirements</td>
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<td>4. Major Requirements</td>
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</table>

1. Carolina Core Requirements (32-44 hours)
CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
• ENGL 101
• ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-7 hours)
• MATH 122 or MATH 141
• STAT 201 or STAT 205

SCI – Scientific Literacy (7 hours)
• BIOL 101 & BIOL 101L
• CHEM 111

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstrate proficiency in a foreign language by achieving a score of two or higher on the foreign language placement test. Students who do not score at least a two must either take 109/110 sequence of SPAN, FREN, GERM, or LATN or ARAB, CHIN, GREK, ITAL, JAPA, PORT, or RUSS 121. If both 109 and 110 are required, foreign language sequences
typically begin in the Fall semesters. (American Sign Language does not count toward the foreign language requirement).

- CC-GFL courses (p. 743)

**GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)**
- any CC-GHS course (p. 743)

**GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)**
- PSYC 101

**AIU – Aesthetic and Interpretive Understanding (3 hours)**
- any CC-AIU course (p. 743)

**CMS – Effective, Engaged, and Persuasive Communication: Spoken Component (0-3 hours)**
- SAEL 200 or SPCH 140

**INF – Information Literacy (0-3 hours)**
- any overlay or stand-alone CC-INF course (p. 743)

**VSR – Values, Ethics, and Social Responsibility (0-3 hours)**
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (0 hours)

*No college-required courses for this program.*

3. Program Requirements (31-34 hours)

**Supporting Courses (31 hours)**

**Additional Pre-Pharmacy Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 102</td>
<td>Biological Principles II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 102L</td>
<td>and Biological Principles II Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 243</td>
<td>Human Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 244</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 250</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111L</td>
<td>General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 112L</td>
<td>and General Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 331L</td>
<td>Essentials of Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Essentials of Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>General Physics I</td>
<td>3</td>
</tr>
</tbody>
</table>

**ECON 224** | Introduction to Economics | 3

Total Credit Hours 32

Note: Students may substitute ECON 224 with ECON 221 or ECON 222.

**Electives (0-3 hours)**

An elective course will be needed if the Pre-Pharmacy hours total is less than 66.

4. Major Requirements (62 hours)

**Professional Requirements**

The final 62 credit hours required for the BS in Pharmaceutical Sciences degree are earned after admission to the USC College of Pharmacy and during the first two years of the professional Doctor of Pharmacy (PharmD) program.

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Pharmaceutical Sciences, B.S.
The College of Social Work offers a four-year undergraduate program on the Columbia campus leading to a Bachelor of Social Work (BSW). This BSW program has been fully accredited by the Council of Social Work Education (CSWE) since 2012.

### The Mission of the BSW Program

The mission of the BSW program is to prepare graduates to become competent and ethical generalist practitioners who promote social and economic justice, social well-being, and an appreciation of diversity among vulnerable populations across South Carolina and beyond. This is accomplished through the program’s emphasis on teaching, research, creative activity, and community engagement.

### Learning Outcomes

- Graduates will engage individuals, families, groups, organizations, and communities. Graduates will be able to: Apply knowledge of human behavior and the social environment and other multidisciplinary frameworks to engage with use empathy and reflection and interpersonal skills to effectively engage diverse clients.
- Graduates will intervene with individuals, families, groups, organizations, and communities. Graduates will be able to critically choose and implement interventions to achieve practice goals apply knowledge of human behavior and the social environment and other multidisciplinary frameworks in interventions.
- Graduates will assess individuals, families, groups, organizations, and communities. Graduates will be able to: Apply knowledge of human behavior and the social environment and other multidisciplinary frameworks in the analysis of assessment data. Develop mutually agreed upon goals and objectives based on the critical assessment of strengths, needs, and challenges. Select appropriate intervention strategies based on the assessment.
- Graduates will demonstrate ethical and professional behavior. Graduates will be able to: Make ethical decisions by using the standards of the NASW Code of Ethics and other models for ethical decision-making. Use reflection and self-regulation to manage personal values and maintain professionalism. Demonstrate professional demeanor in behavior appearance and communication. Use supervision and consultation to guide professional judgment and behavior.
- Graduates will engage diversity and difference in practice. Graduates will be able to: Apply and communicate the importance of diversity and difference in shaping life experiences. Present themselves as learners and engage clients and constituencies as experts of their own experiences. Apply self-awareness and self-regulation to manage the influences of personal biases.
- Graduates will engage in research-informed practice and practice-informed research. Graduates will be able to: Use practice experience and theory to inform scientific inquiry. Apply critical thinking to engage in analysis of quantitative and qualitative research methods. Use and translate research evidence to inform and improve practice.
- Graduates will engage in policy practice. Graduates will be able to: Identify social policy that impacts social well-being service delivery and access to social services. Apply critical thinking to analyze and advocate for policies that advance human rights and social and economic justice.
- Graduates will advance human rights and social economic and environmental justice. Graduates will be able to: Apply their understanding of social and environmental justice to advocate for human rights. Engage in practices that advance social economic and environmental justice.
- Graduates will apply critical thinking to evaluate social work practice. Graduates will be able to: Select and use appropriate methods for

### Social Work Minor

#### Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 201</td>
<td>Introduction to Social Work Profession and Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 222</td>
<td>Social Welfare Institutions, Policies, and Programs</td>
<td>3</td>
</tr>
<tr>
<td><strong>Minor Electives</strong></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Select 12 hours of courses numbered 300 and above including:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOWK 303</td>
<td>Social Welfare Services for Children and Youth</td>
<td></td>
</tr>
<tr>
<td>SOWK 304</td>
<td>Social Welfare Services to Older Adults and Their Families</td>
<td></td>
</tr>
<tr>
<td>SOWK 305</td>
<td>Social Welfare Services for Women and Minorities</td>
<td></td>
</tr>
<tr>
<td>SOWK 307</td>
<td>International Social Work and Social Justice</td>
<td></td>
</tr>
<tr>
<td>SOWK 309</td>
<td>Life Transitions: Loss and Grief</td>
<td></td>
</tr>
<tr>
<td>SOWK 322</td>
<td>Social Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>SOWK 331</td>
<td>Diversity and Social Justice in Contemporary Society</td>
<td></td>
</tr>
<tr>
<td>SOWK 341</td>
<td>Human Behavior and Social Environment I (HBSE): Individual Development Across the Life Span</td>
<td></td>
</tr>
<tr>
<td>SOWK 352</td>
<td>Social Work and Scientific Inquiry</td>
<td></td>
</tr>
<tr>
<td>SOWK 399</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>SOWK 404</td>
<td>Current Issues in Social Welfare</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credit Hours:** 18

Please visit the Social Work Minor website [here](https://www.sc.edu/study/colleges_schools/socialwork/study/minor_in_social_work/) for more information.
evaluation. Apply knowledge of human behavior and the social environment and other multidisciplinary frameworks to evaluate outcomes. Critically analyze monitor and evaluate intervention and program processes and outcomes. Apply evaluation findings to improve practice effectiveness.

**Attendance Requirements**

Students are subject to attendance regulations of the University (p. 765) as described in the University of South Carolina Undergraduate Bulletin. In addition, students are expected to attend all required orientations and advisement sessions so they are prepared for all social work courses, including field education courses. Concerns related to attendance are addressed in BSW course syllabi and the field education manual.

**Readmission**

A student who has been suspended or who has withdrawn from the BSW Program and subsequently readmitted will be subject to the current academic standards of the University and the BSW Program.

**Credit for Life Experience**

In accordance with the mandates of the Council on Social Work Education, no credit is given for life experiences. Students will not receive academic credit for life experience or previous volunteer, service learning activities or assignments, or work experience in social work.

Academic credit will not be granted for life experience or previous work experience, and such experience will not be substituted for any of the courses in the professional foundation areas or the field practicum.

**Transfer of Credit**

Although the USC Office of Admission may grant students semester hours for transfer credit for completed work in another social work program, the BSW Program will determine whether the course meet the requirements of the BSW degree in the College of Social Work. Any student wishing to transfer credit must submit a course syllabus that includes learning objectives, assignments, and the titles and authors of textbooks to the BSW Program Coordinator. If it appears that the requisite competencies, knowledge, and skills have been acquired, the student will be exempted from the BSW course.

**Admissions**

**Entrance and Progression Requirements**

In order to be admitted to the BSW Program, students must meet all University and college admission requirements. Transfer students must meet all such requirements and have an overall GPA of 2.50 or better. Enrollment in lower division Social Work courses does not guarantee acceptance into the upper division BSW Program.

**Admission to the Upper Division**

The admission policy for the BSW degree program applies to every applicant. All applicants must fulfill the general admission requirements of both the University and the College of Social Work. Students must submit a completed College of Social Work BSW Program application by the announced due dates published each year. The College of Social Work is committed to diversity in its student body. Admission is limited and competitive.

Minimum requirements for admission include:

- An institutional undergraduate GPA of 2.50 (on a 4.00 scale).
- A grade of C in their English Carolina Core course requirements.
- Verified completion of 39 hours of Carolina Core and College Requirements at the time of application.
- Verified completion of 54 hours of Carolina Core and College Requirements at the time of progression to upper division.
- Verified completion of SOWK 201, or equivalency for transfer students (http://sc.edu/about/offices_and_divisions/registrar/transfer_credits/).
- At least three letters of reference submitted by individuals who can attest to the student's potential for undergraduate study and social work practice.
- A personal statement that addresses the student's interests, resiliencies, and community service.
- An interview may also be required.
- Meeting with a social work advisor to receive information about and discuss the application process.

**Progression Requirements**

To remain in the BSW Program, students must make satisfactory academic progress toward the degree. A student who fails to make satisfactory progress will be placed on academic probation or terminated from the program. Students must maintain a minimum GPA of 2.50 in the major and must earn a grade of C or higher in all major courses. Students will be notified by the program when their GPAs fall below 2.50. A meeting with the Program Coordinator may be required.

Students may attempt a social work core course a maximum of two times to fulfill a major requirement. A grade of W (Withdrawal) will be recognized as an attempt. A student may repeat a maximum of two core courses. In addition, all students are subject to the regulations on probation, suspension, and readmission stated in the Academic Standards Policies (p. 765) section of the Undergraduate Academic Regulations Bulletin.

**Degree Requirements (120 hours)**

**Program of Study**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>31-43</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>3-15</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>2-26</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>60</td>
</tr>
</tbody>
</table>

**1. Carolina Core Requirements (31-43 hours)**

**CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)**

*must be passed with a grade of C or higher*

- any CC-CMW course (p. 743)

**ARP – Analytical Reasoning and Problem Solving (6 hours)**

- STAT 201
- One of the following:
Undergraduate

SCI – Scientific Literacy (7 hours)
Two approved Carolina Core Scientific Literacy courses (p. 743), including at least one with a laboratory selected from Biology

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
A score of two or better on the foreign language placement test or equivalent Carolina Core GFL course(s).

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
Any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
Any CC-GSS course (p. 743) from Psychology (PSYC) or Sociology (SOCY)

AIU – Aesthetic and Interpretive Understanding (3 hours)
Any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
Any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
Any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
Any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (3-15 hours)
Economics (3 hours)

Additional College of Social Work Requirements (12 hours)
These requirements may be satisfied as part of the Carolina Core requirements:

Select one philosophy course 3
Select one cultural awareness course (A wide variety of courses can be considered under the general category of “cultural awareness.” Students are to consult with their advisors for approved courses.) 3

Total Credit Hours 12

3. Program Requirements (2-26 hours)
Electives (2-26 hours)
The B.S.W. requires a minimum of 60 semester hours outside of the major requirements. Students with fewer than 60 hours outside of the major must take enough electives to fulfill the 120-hour minimum. No elective courses of a remedial and developmental nature may apply as credit toward the 120-hour minimum.

4. Major Requirements (60 hours)
A minimum grade of C is required in all major courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
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<td>SOWK 222</td>
<td>Social Welfare Institutions, Policies, and Programs</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 311</td>
<td>Generalist Practice I: Introduction to Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 312</td>
<td>Generalist Practice II: Social Work with Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 322</td>
<td>Social Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 331</td>
<td>Diversity and Social Justice in Contemporary Society</td>
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</tr>
<tr>
<td>SOWK 352</td>
<td>Social Work and Scientific Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 382</td>
<td>Introduction to Field Education</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 411</td>
<td>Generalist Practice III: Social Work with Small Groups</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 412</td>
<td>Generalist Practice IV: Organizations and Communities</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 422</td>
<td>Advocacy for Social and Economic Justice</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 441</td>
<td>Human Behavior and the Social Environment (HBSE) III: Large Systems</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 481</td>
<td>Practicum I: Field Education</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 482</td>
<td>Practicum II: Field Education</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 483</td>
<td>Practicum Seminar</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 484</td>
<td>Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Electives
Select three SOWK electives 9

Total Credit Hours 60

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor...
for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Social Work, B.S.W.
SOUTH CAROLINA HONORS COLLEGE

Department Website (http://schc.sc.edu/)

Steven Lynn, Ph.D., Dean
Andrea Tanner, Ph.D., Associate Dean
Kay Banks, Ed.D., Associate Dean for Student Affairs
Chappell Wilson, Assistant Dean of Administration
Novella Beskid, Assistant Dean for National Fellowships & Scholar Programs

Overview

The South Carolina Honors College (SCHC) combines the benefits of a small college in the context of a large comprehensive research university. The College provides academically gifted and motivated students with the opportunity to develop their intellectual potential to the fullest. It emphasizes small classes with intensive interaction between students and professors. The Honors College curriculum is designed to exploit fully the talents of both students and teachers. Any qualified student, regardless of major or career interest, can take advantage of the College's rich educational environment.

Retention in the College

To remain in good standing in the College, Honors College students must maintain a minimum GPA on a sliding scale that starts at 3.00 for first-year students and rises to 3.30 for seniors. In addition, Honors College students must earn Honors course credits - 9 by the end of their first year, 18 after their sophomore year, and 27 after their junior year-to remain in good standing in the college. Students who fall short of these requirements are allowed one semester of probation to increase their GPA or the number of honors credits to reach the required level. Any student who wants to apply for grade forgiveness for a South Carolina Honors College course must first petition the dean of the Honors College.

Honors College Advising

Entering Honors College first-year students are advised by the staff of Honors College prior to and during Freshmen Orientation, and the College continues to advise all Honors College students throughout their time in the College. Once a student has selected a major, he or she also is advised by faculty and/or staff members in that discipline. For this reason, most Honors College students have two advisors.

Graduation with Honors from the South Carolina Honors College

Honors College students have the opportunity to "graduate with Honors from the South Carolina Honors College." This accomplishment is recognized on their transcript, their diploma, and during commencement. In order to graduate with honors, students must complete at least 45 credit hours of Honors College courses, including a minimum 3 credit hours of senior thesis or project. The course requirements must include one course each in English, laboratory science, the history of civilization, analytical reasoning, the humanities, the social sciences, and an outside the classroom experience (Beyond the Classroom) that could be either undergraduate research, an Honors service learning course, study away, or an internship. Honors College elective credits may be in any area. All Honors College students, regardless of their major, can complete these requirements.

SCHC Curriculum

The Honors College offers two types of courses: courses that are unique to the Honors College and Honors College versions of courses offered by other academic units. Honors College sections of courses offered by other academic units carry the same departmental designator and number as their non-honors equivalent, but they have a “Hxx” section number (e.g., ENGL 101, Section H01). Courses developed specifically for the Honors College are designated “SCHC.” While SCHC courses have no exact equivalent in the non-honors curriculum, every effort is made to ensure that these courses fulfill university core, major, minor, or cognate requirements.

SCHC courses that are numbered 200 or higher, “proseminars,” are designed to be similar in style to graduate-level seminars and are taught, where possible, through the use of discussion rather than lecture.Normally no more than 18 students may enroll in an Honors College proseminar.

At the 200-level, proseminars are usually broad in scope, providing a firm grounding in the general area described by a discipline. At the junior (300) and senior (400) levels, proseminars are more specific in content, providing the students and the professor the opportunity to delve deeply into a specialized subject. Of special interest are the interdisciplinary proseminars, which are designed to bring knowledge from several academic disciplines to bear on a particular problem. Proseminars may be taught by more than one faculty member.

South Carolina Honors College students may meet University Core Curriculum requirements through Honors courses determined to be core-appropriate by the South Carolina Honors College, with the oversight of the Provost. The South Carolina Honors College maintains a list of such courses.

Inquiry Minor

This minor is designed for students who wish to prepare for an intensive undergraduate research experience. The program of study, designed in close consultation with both the student’s major and SCHC advisors, will provide a richer understanding of the logic, conduct, and context of inquiry in related disciplinary arenas.

Application. Interested students must complete an application and qualify for the minor. Applications can be submitted any time after completion of the first year. Normally, students will be expected to have at least a 3.30 grade point average. Applications will be evaluated on overall merit by the Minor in Inquiry Oversight Committee. Applications may be obtained from the South Carolina Honors College, the College of Arts and Sciences, and online on the Honors College Web site.

Opportunity to Participate in the Honors College. The Minor in Inquiry is open to all qualified undergraduates, in and outside the Honors College. All students in the minor will be given priority access to minor-eligible courses offered in the Honors College. They will also be given priority consideration for the SCHC Undergraduate Research Assistantships. Finally, non-honors students in the minor will be given the opportunity to undertake a senior honors thesis or project. Non-honors students admitted to the minor will be assigned the appropriate Honors College advisor who will work with the student and the student’s major advisor to plan the most suitable program.

Requirements. Eighteen credit hours are required to satisfy the minor, distributed over three levels. At least half of the credits must be in the Honors College. Each student must take at least one of the appropriate
Level I, “Fundamentals,” courses. These courses introduce some fundamental problems of inquiry confronting those working within related disciplines (for example, the natural sciences). In addition, a student must take at least three courses from Level II. Level II courses must be taken outside of the student’s major discipline. These courses, chosen in close consultation with the student’s advisors, are intended to broaden and deepen the student’s understanding of the nature and problems of inquiry introduced in the Fundamentals course, as well as explore new areas affecting the conduct and context of inquiry in the student’s area of interest. In some cases a student may elect to take a second Level I course. The final two courses may be selected either from among advanced research courses (400 level and above) in the student’s major discipline including the senior thesis/project—Level III courses—or from additional Level II courses. Disciplinary courses counted toward the minor must be approved by both the student’s major and honors advisors and cannot count toward major credit. Alternatively, the student may elect to take additional Level II courses.

Further Information
For further information contact:

Dean
South Carolina Honors College
University of South Carolina
Columbia, SC 29208

or the USC Office of Undergraduate Admissions. Additional information may also be found on the Web site of the South Carolina Honors College: http://schc.sc.edu/.

Minor Requirements
Level I Courses-One Course Required
Each student must select the appropriate course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHC 280</td>
<td>HNRS: Interdisciplinary Proseminar in the Liberal Arts</td>
<td>3</td>
</tr>
<tr>
<td>SCHC 281</td>
<td>HNRS: Interdisciplinary Proseminar in the Liberal Arts</td>
<td>3</td>
</tr>
<tr>
<td>SCHC 285</td>
<td>HNRS: Proseminar: Natural History of South Carolina</td>
<td>4</td>
</tr>
<tr>
<td>UNIV 201</td>
<td>Fundamentals of Integrative Learning</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Total Credit Hours: 11-13

Level II Courses—Three Courses Required
The following courses address fundamental issues in the logic, context, and conduct of inquiry in certain broad areas of research. Students must select at least three of these courses with the advice and approval of their major and minor advisors; the courses are expected to reflect the area of the student’s research interests. These courses must be outside the student’s particular major. The student may substitute a second Level I course for one of these three.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 313</td>
<td>Ethical Dilemmas in Anthropology</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 359</td>
<td>Theories of Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 551</td>
<td>Medical Anthropology: Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 388</td>
<td>History of Literary Criticism and Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 440</td>
<td>Principles of Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 449</td>
<td>Special Topics in Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 473</td>
<td>Film and Media Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 620</td>
<td>Computer Methods for Humanistic Problems</td>
<td>3</td>
</tr>
<tr>
<td>POLI 301</td>
<td>The Political Science Discipline</td>
<td>3</td>
</tr>
<tr>
<td>HIST 452</td>
<td>The History of Science in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 479</td>
<td>Oral History</td>
<td>3</td>
</tr>
<tr>
<td>LING 300</td>
<td>Introduction to Language Sciences</td>
<td>3</td>
</tr>
<tr>
<td>LING 340</td>
<td>Language, Culture, and Society</td>
<td>3</td>
</tr>
<tr>
<td>LING 541</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>LING 565</td>
<td>Philosophy of Language</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 510</td>
<td>Theory of Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 512</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 513</td>
<td>Philosophy of History</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 517</td>
<td>Philosophy of Language</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 518</td>
<td>Philosophy of the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 528</td>
<td>Concepts of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 320</td>
<td>Individual and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 550</td>
<td>Sociology of Science</td>
<td>3</td>
</tr>
<tr>
<td>SCHC 312</td>
<td>HNRS: Proseminar in Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SCHC 332</td>
<td>HNRS: Proseminar in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SCHC 380</td>
<td>HNRS: Interdisciplinary Proseminars</td>
<td>3-4</td>
</tr>
<tr>
<td>SCHC 383</td>
<td>HNRS: Interdisciplinary Proseminars</td>
<td>3-4</td>
</tr>
<tr>
<td>SCHC 394</td>
<td>HNRS: Proseminar</td>
<td>1-3</td>
</tr>
<tr>
<td>SCHC 483</td>
<td>HNRS: Interdisciplinary Proseminar</td>
<td>3-4</td>
</tr>
<tr>
<td>SCHC 485</td>
<td>HNRS: Interdisciplinary Proseminar</td>
<td>3-4</td>
</tr>
<tr>
<td>STAT 506</td>
<td>Introduction to Experimental Design</td>
<td>3</td>
</tr>
<tr>
<td>STAT 515</td>
<td>Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 516</td>
<td>Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 506</td>
<td>Introduction to Experimental Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours: 11-13

Level III Courses
At Level III of the minor, students will have the option of using up to 6 credit hours of advanced research courses (400 level and above) from their major discipline, including Senior Thesis/Project, toward the minor. If they elect to do so, these courses can count toward their major requirements. Students may also choose to complete their minor by taking additional contextual Level II courses, while taking advanced research courses in their discipline as part of their major program. Minor-eligible, advanced research courses must be approved by both the honors and major advisors. Examples might include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 692</td>
<td>Historic Preservation Field Experience--Charleston, S.C.</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours: 3

Biology Majors

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 498</td>
<td>Biological Research: An Introduction</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credit Hours: 4

Interdisciplinary Studies, BarSc.
The South Carolina Honors College offers a unique degree, the Baccalaureus Artium et Scientiae (Bachelor of Arts and Science). A student seeking the Baccalaureus degree constructs an individualized program of
study that is tailored to his or her specific interests. This allows students with interests that fall outside traditional disciplinary boundaries to pursue undergraduate studies that fit their individual interests, needs, and aptitudes. The Baccalaureus degree is most suitable for students preparing to continue their studies beyond the baccalaureate level, especially in areas expecting a broad educational experience, such as law, government service, various academic graduate programs, and medicine. Admission to this degree program is based on outstanding academic work and a commitment to developing intellectual breadth.

**Learning Objectives**

- Students completing the Baccalaureus Artium and Scientiae will have intellectual breadth demonstrated through completion of all general education requirements for both the BA and BS degrees in the College of Arts and Sciences. In addition, Baccalaureus students will study a foreign language at least through the fifth semester (or 300-level).
- In cooperation with their individually assembled BARSC Committees, students will develop a program of study appropriate to their particular educational needs and goals.
- Students will maintain a high level of academic performance.
- Students will be well prepared for the next stage of their academic or professional careers.

**Admission**

Admission to the College is based upon proof of a student’s potential for high academic achievement. Admission criteria include outstanding work in high school, high aptitude test scores, the ability to write well, and a strong intellectual curiosity. A candidate for the College must be accepted to the University and then must submit a separate application for admission to the Honors College.

The admissions policies are administered by the coordinator of admissions for the South Carolina Honors College in the Office of Undergraduate Admissions. The normal standards to be considered for admission include, but are not confined to, an SAT of 1340 or greater and a strong academic performance in high school, as well as evidence of keen analytical skills and a clear writing style. Transfer students and students already enrolled in the University who have a GPA of 3.60 on a 4.00 scale also may be considered for admission. Admission of such students will be contingent on a review of the student’s overall college record, the quality of the application, and the availability of space in the Honors College.

**Degree Requirements (126 Hours)**

The individualized curriculum of a Baccalaureus degree candidate is supervised by an advisory committee, which aids Baccalaureus degree candidates in course selection and career orientation. In place of the University’s traditional major and other requirements, Baccalaureus students must take a wide range of courses designed to develop intellectual inquisitiveness. These requirements are constructed so that Baccalaureus students satisfy the basic degree requirements of the Bachelor of Science and Bachelor of Arts in the College of Arts and Sciences (p. 12). Baccalaureus students also must demonstrate proficiency in a foreign language at the 300 level and submit a senior thesis or project worth 9 to 15 credit hours; they must also complete a total of 69 honors course credit hours. Graduation with the Baccalaureus degree requires a 3.50 cumulative GPA. Additional requirements are set by each student’s advisory committee, depending on his or her goals, needs, and lacunae. See the SCHC Handbook for further details.

**Major Map**

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Interdisciplinary Studies, BarSC.
PALMETTO COLLEGE

Launched in 2013, Palmetto College is the University of South Carolina's online bachelor's degree completion consortium providing leadership, management, and coordination of online education across all eight USC campuses. Through Palmetto College, students can begin and complete high-quality bachelor's degrees, through asynchronous or real-time delivery, without disrupting personal, family, and professional commitments.

In addition to its degree completion mission, Palmetto College is also an administrative organization encompassing the University's four associate degree-granting regional campuses (Lancaster, Salkehatchie, Sumter and Union) and Palmetto College Columbia.

Susan Elkins, Chancellor
John Catalano, Associate Provost
M. Ron Cox, Jr., Dean

Palmetto College Columbia

Palmetto College Columbia offers instruction, courses, programs and services designed for students who need courses at convenient sites and times or in flexible formats, compatible with their jobs or other schedule restrictions. Undergraduate programs in Liberal Studies and Organizational Leadership are offered as part of Palmetto College, and associates degrees are available to military service members and affiliated groups through the Fort Jackson Program.

M. Ron Cox, Jr., Dean
Stephen Lowe, Director, Liberal Studies and Organizational Leadership

Liberal Studies, B.A.

Overview of the BLS

The Bachelor of Arts degree in Liberal Studies Program (BLS) is only available to students on USC’s regional campuses or online through Palmetto College. It is designed to provide access to upper-level study in a range of liberal arts disciplines, fostering the abilities to think critically, communicate effectively, solve problems, and interpret human experience. Goals of this program are to enhance students’ intellectual and creative capacities and broaden their historical, ethical, social, and international perspectives while allowing them some flexibility in designing the upper-level curricula based on previous studies and employment objectives.

Learning Outcomes

- Students will demonstrate the ability to initiate independent, interdisciplinary inquiry and the ability to apply critical thinking to interdisciplinary problems.
- Students will demonstrate an understanding of South Carolina from historical as well as contemporary political, cultural, economic, and social perspectives in papers, assignments and other student writing.
- Students will be educated and participatory citizens of South Carolina and explain how their academic training has prepared them to be active state citizens.
- Students will demonstrate the ability to apply classroom learning to real-world experience in the public or private sector.

Admission and Graduation Standards

Students may apply to the Liberal Studies Program after completion of at least 45 semester hours of accredited, college-level work. A minimum grade point of 2.00 is required for admission and graduation. As part of the application process, a specific Program of Study is developed by the student and the student’s advisor and approved by the Program Committee. Any changes to the Program of Study must be approved by the advisor and Program Committee. All students must earn at least 30 USC hours after admission to this program. A minimum of 120 semester hours of accredited, college-level work must be presented to earn this degree.

Degree Requirements (120 hours)

The Bachelor of Arts in Liberal Studies (BLS) is designed for students who want to pursue liberal studies without a major in a single discipline.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>9-12</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>28-43</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>36</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

must be passed with a grade of C or higher

- ENGL 101
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)

- any CC-SCI courses (p. 743), must include two labs

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.
GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
• any CC-GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
• any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
• any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
• SPCH 140 or any overlay or stand-alone CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
• any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
• any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. At least one of these requirements must be satisfied by a course not applied elsewhere in general education. (3-9 Hours)

2. College Requirements (9-12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 102</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Select</td>
<td>Foreign Language course (only if needed to meet 122-level proficiency)</td>
<td>0-3</td>
</tr>
<tr>
<td>Select</td>
<td>Arts and Sciences Electives (Must include two disciplines)</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>Credit Hours</td>
<td>9-12</td>
</tr>
</tbody>
</table>

3. Program Requirements (28-43 hours)

Cognate (12 hours)
Must be passed with a grade of C or higher

The cognate cannot be a discipline included in the student’s major option. No more than six hours of transfer work maybe applied to the cognate.

A minimum of 12 hours of course work at the 300 level or above from one of the following disciplines:

• Anthropology
• Art
• Business
• Criminal Justice
• Dance
• Economics
• Education
• English
• Geography
• History
• Health Promotion, Education and Behavior
• Languages
• Mathematics
• Native American Studies 1
• Philosophy
• Political Science
• Psychology
• Physical and/or Biological Sciences
• Religious Studies
• Social Work
• Sociology
• Theatre

1 Courses designated as fulfilling the Native American Studies option will be listed on the BA in Liberal Studies program website.

Electives (16-31 hours)

4. Major Requirements (36 hours)

A minimum grade of C is required in all major courses.

Major Courses (9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PALM 493</td>
<td>South Carolina Studies</td>
<td>3</td>
</tr>
<tr>
<td>PALM 494</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>or PALM 495</td>
<td>Service-Learning</td>
<td></td>
</tr>
<tr>
<td>PALM 401</td>
<td>Palmetto Senior Capstone Experience</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>Credit Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

Major Electives (27 hours)

The student’s major will be chosen from two of the disciplines below.

All courses must be at the upper level with at least 15 hours at the 400-level or above, with the exception of Sociology, in which the following 300-level courses may be substituted for 400-level courses: SOCY 304, SOCY 305, SOCY 312, SOCY 320, SOCY 323, SOCY 340. All grades must be C or better. A minimum of 12 hours is required in each of the two disciplines. At least 15 hours must be USC courses. No more than 12 hours of the major will be accepted in transfer.

• Anthropology
• Art
• Astronomy
• Biological Sciences
• Chemistry
• Criminology and Criminal Justice
• Economics
• English
• Environmental Studies
• Geography
• Geological Studies
• Health Promotion, Education and Behavior
• History
• Languages
• Marine Science
• Mathematics
• Native American Studies
• Philosophy
• Physics
• Political Science
• Psychology
• Religious Studies
• Sociology
• Statistics
• Theatre

1 The most updated list of courses designated as fulfilling the Native American Studies option will be listed on the BA in Liberal Studies program website.

Major Map
A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Liberal Studies, B.A.

Organizational Leadership, B.A.
The Bachelor of Arts degree in Organizational Leadership (BOL) is only available to students on USC's regional campuses or online through Palmetto College. It is designed for students who seek a baccalaureate degree with an applied focus on leadership and who want a solid professional foundation to enter the workforce. The degree allows students to gain the knowledge and skills to prepare them for leadership roles in a variety of community settings, including non-profit organizations, businesses, local government, and public agencies. Students may choose to pursue an area of focus in Entrepreneurship with programs by completing certain courses within the major, as outlined in the Major Requirements.

Learning Outcomes
• Students will be able to demonstrate their knowledge of skills that make successful leaders in various organizational settings.
• Students in ENGL 463 will demonstrate the ability to write effective prose and/or develop and give a presentation in a professional setting.
• Students in PALM 493 will demonstrate the ability to be educated and participatory citizens of South Carolina and explain how their academic training has prepared them to be active state citizens.
• Students in PALM 494 and PALM 495 will demonstrate the ability to apply classroom learning to real-world experience in the public or private sector.

Admission and Graduation Standards
Students may apply to the Organizational Leadership Program after completion of at least 45 semester hours of accredited, college-level work. A minimum grade point of 2.0 is required for admission and graduation. As part of the application process, a specific Program of Study is developed by the student and the student’s advisor and approved by the Program Committee. Any changes to the Program of Study must be approved by the advisor and Program Committee. All students must earn at least 30 USC hours after admission to this program. A minimum of 120 semester hours of accredited, college-level work must be presented to earn this degree.

Degree Requirements (120 hours)
The Bachelor of Arts in Organizational Leadership (BOL) is designed for students who want to study organizational leadership without a major in a single discipline.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>32-44</td>
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<tr>
<td>2. College Requirements</td>
<td>9-12</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>31-46</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>33</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (32-44 hours)
CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
must be passed with a grade of C or higher

• ENGL 101
• ENGL 102

ARP – Analytical Reasoning and Problem Solving (6 hours)
• any CC-ARP courses (p. 743)

SCI – Scientific Literacy (8 hours)
• any two CC-SCI courses (p. 743), must include two labs

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)
Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

• CC-GFL courses (p. 743)

It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and continue in that language until their particular foreign language requirement is completed.

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)
• any CC-GHS course (p. 743)
Undergraduate 527

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)
- any CC-GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 hours)
- any CC-AIU course (p. 743)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component 1 (0-3 hours)
- SPCH 140 or any CC-CMS course (p. 743)

INF – Information Literacy 1 (0-3 hours)
- any overlay or stand-alone CC-INF course (p. 743)

VSR – Values, Ethics, and Social Responsibility 1 (0-3 hours)
- any overlay or stand-alone CC-VSR course (p. 743)

1 Carolina Core Stand Alone or Overlay Eligible Requirements – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

2. College Requirements (9-12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 102</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

Select Foreign Language course (only if needed to meet 122-level proficiency) 0-3

Select Arts and Sciences Electives (Must include two disciplines) 6

Total Credit Hours 9-12

3. Program Requirements (31-46 hours)

Supporting Courses (27-30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 224</td>
<td>Introduction to Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 221 &amp; 222</td>
<td>Principles of Microeconomics and Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ENGL 463</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 264</td>
<td>Computer Applications in Business I</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 371</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>PALM 493</td>
<td>South Carolina Studies (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

PALM 494 | Internship (must be passed with a grade of C or higher) 1 | 3 |

or PALM 495 | Service Learning | 3 |

PCAM 205 | Foundations of Leadership (must be passed with a grade of C or higher) | 3 |

PSYC 350 | Industrial Psychology                      | 3       |

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

4. Major Requirements (33 hours)
a minimum grade of C is required in all major courses

Major Courses (33 hours)
Select 33 credits from the following lists, with at least 9 credits from each of the three categories, and at least 12 credits at the 400 level. No more than 15 hours combined from MGMT, ACCT, and ECON may be selected.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 344</td>
<td>Personnel Organization and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 374</td>
<td>Strategic Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 376</td>
<td>Employee Engagement</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 472</td>
<td>Entrepreneurship and Small Business</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 211</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 360</td>
<td>Applied Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 420</td>
<td>Survey of Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 430</td>
<td>Survey of Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 304</td>
<td>Race, Class, Gender, and Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 340</td>
<td>Introduction to Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>PALM 401</td>
<td>Palmetto Senior Capstone Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Law, Policy, and Organizations

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 324</td>
<td>Survey of Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 403</td>
<td>Tax I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 363</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>ECON 379</td>
<td>Government Policy Toward Business</td>
<td>3</td>
</tr>
<tr>
<td>HIST 405</td>
<td>The Rise of Industrial America, 1877-1917</td>
<td>3</td>
</tr>
<tr>
<td>HIST 469</td>
<td>Constitutional History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
<td>Constitutional History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 201</td>
<td>Principles of Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 406</td>
<td>International Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 473</td>
<td>Developing and Launching New Ventures</td>
<td>3</td>
</tr>
<tr>
<td>POLI 201</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>POLI 370</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POLI 365</td>
<td>State Government</td>
<td>3</td>
</tr>
<tr>
<td>POLI 463</td>
<td>The American Chief Executive</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 300</td>
<td>South Carolina Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 300</td>
<td>Social Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

Students wishing an area of focus in Entrepreneurship should take PALM 494.

Electives (1-19 hours)
Sufficient elective hours as needed to meet the 120-credit-hour requirement.
### Workplace Dynamics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 406</td>
<td>Labor Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 415</td>
<td>Economics of American Industry</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 401</td>
<td>Negotiation and Conflict in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 324</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>POLI 368</td>
<td>Interest Groups and Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>POLI 465</td>
<td>Psychology and Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 405</td>
<td>Cognitive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 501</td>
<td>Human Factors Psychology</td>
<td>3</td>
</tr>
<tr>
<td>RETL 330</td>
<td>Asset Protection for Retailers</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 311</td>
<td>Ecology of Human Social Systems</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 312</td>
<td>Bureaucracy and Modern Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 354</td>
<td>Collective Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 331</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Students that wish to have an area of focus in entrepreneurship are recommended to complete at least 15 hours of the major from among a specific sub-set of courses identified as related to entrepreneurship. It is recommended that students should also take PALM 494 rather than PALM 495 to gain internship experience. PALM 494 does not count toward the 15 hours of Entrepreneurship courses. This area of focus in entrepreneurship designation does not appear on the student's academic transcript, nor on the diploma.

Major courses that are acceptable for credit toward this area of focus are identified in the academic bulletin by appearing with the designation (E) after the name of the course.

### Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.
ASSOCIATE DEGREE PROGRAMS AT FORT JACKSON

The USC Fort Jackson Program is designed for and awards Associate of Arts and Associate of Science degrees to active-duty military personnel (all branches), their spouses, Department of Defense civilian employees, National Guard members, reservists, and veterans. Civilians, including Columbia-campus students, are welcome to take courses on a space-available basis, but they may not earn these associate degrees.

Programs

• Associate of Arts (Fort Jackson), A.A.
• Associate of Science (Fort Jackson), A.S.

Associate of Arts (Fort Jackson), A.A.

The USC Fort Jackson Program is designed for and awards Associate of Arts and Associate of Science degrees to active-duty military personnel (all branches), their spouses, Department of Defense civilian employees, National Guard members, reservists, and veterans who have earned 60 hours of credit and completed the requirements that follow. Civilians, including Columbia-campus students, are welcome to take courses on a space-available basis, but they may not earn these associate degrees.

Learning Outcomes

Graduates will be able to:

• Identify and analyze issues, develop logical and persuasive arguments, and communicate ideas clearly for a variety of audiences and purposes through writing.
• Apply the methods of mathematical, statistical, or analytical reasoning to critically evaluate data, solve problems, and effectively communicate findings verbally and graphically.
• Apply the principles and language of the natural sciences and associated technologies to historical and contemporary issues.
• Communicate in more than one language.
• Use the principles of historical thinking to understand past human societies.
• Use the principles of the social sciences to explore diverse cultural identities and to analyze political and environmental issues.
• Create or interpret literary, visual or performing arts.

AND be able to demonstrate at least ONE of the following:

• Identify and analyze issues, develop logical and persuasive arguments, and communicate ideas clearly for a variety of audiences and purposes through speaking.
• Collect, manage and evaluate information using technology, and communicate findings.
• Examine different kinds of social and personal values, analyzing the ways in which these are manifested in communities as well as individual lives.

Degree Requirements

Carolina Core - 15 Hours
These serve as general education requirements common to all associate degrees.

CMW: Effective, Engaged and Persuasive Communication: Writing (6 Hours)
Must be passed with a grade of C or higher
• any CMW course (p. 743)

SCI: Scientific Literacy (3 Hours)
• any SCI course (p. 743)

GHS: Global Citizenship and Multicultural Understanding: Historical Thinking (3 Hours)
• any GHS course (p. 743)

GSS: Global Citizenship and Multicultural Understanding: Social Sciences (3 Hours)
• any GSS course (p. 743)

Associate of Arts Degree Curriculum - 60 Hours
1. Basic Requirements
2. Electives

Requirements (including 15 hours of Carolina Core stated above) (37-38 Hours)
All course selections are from the approved Carolina Core Learning Outcomes list unless otherwise specified.

CMW: Effective, Engaged and Persuasive Communication: Writing (6 Hours)
Must be passed with a grade of C or higher

ARP: Analytical Reasoning and Problem-Solving (3 Hours)
• Choose from MATH, CSCE, PHIL, STAT including MATH 111 or MATH 115

SCI: Scientific Literacy (7-8 Hours)
• Must include at least 1 laboratory science course

GFL: Global Citizenship and Multicultural Understanding: Foreign Language (0-3 Hours)
• One 3-hour language course at any level or score of “2” on placement exam

GHS: Global Citizenship and Multicultural Understanding: Historical Thinking (3 Hours)
• any GHS course (p. 743)

GSS: Global Citizenship and Multicultural Understanding: Social Sciences (6 Hours)
• any GSS course (p. 743)

AIU: Aesthetic and Interpretive Understanding (6 Hours)
• any AIU course (p. 743)
Choose ONE of the following three options:

- CMS: Effective, Engaged and Persuasive Communication: Speech (3 Hours)
- INF: Information Literacy (3 Hours)
- VSR: Values, Ethics and Social Responsibility (3 Hours)

Electives for A.A. Degrees (22-23 Hours)
Electives may be any additional courses not used to fulfill the previously stated requirements. Students who intend to apply these credits toward a baccalaureate degree awarded by another campus or institution are advised to work closely with an academic advisor to choose electives that will meet preliminary requirements of the four-year major they wish to pursue. Of particular importance is completion of general education requirements. USC Columbia requires a minimum of 31 general education credit hours and a student planning to pursue a USC Columbia baccalaureate degree must complete these hours. These hours can be incorporated within the 60 hours required for an AA or AS degree when electives are carefully selected. Applying for an associate’s degree does not in any manner affect eligibility to apply for a baccalaureate degree, and vice versa.

Other Requirements
In addition to the requirements for the A.A. and A.S. degrees stated above, the following stipulations also apply:

- Students must have a cumulative GPA of 2.00 or better (does not include course grades earned by challenge examinations).
- The final 15 semester hours must be earned at USC.
- No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees.
- Pass-Fail option on elective courses is allowed.
- No more than 15 hours of nontraditional credits, which include DANTES, CLEP, and military experience.
- No more than 3 1-hour PEDU activity courses may count toward meeting Associate’s degree requirements (any track).

Second Associate’s Degree
At times the University of South Carolina Ft. Jackson confers a second associate’s degree upon candidates who have completed all requirements for the second degree, provided that the additional requirements for the second degree include a minimum of 12 semester hours beyond those required for the first degree earned at USC Ft. Jackson and a minimum of 72 semester hours total. Under this policy a student may apply for two degrees at one time or separately. In either case the student would receive two diplomas.

Associate of Science (Fort Jackson), A.S.
The USC Fort Jackson Program is designed for and awards Associate of Arts and Associate of Science degrees to active-duty military personnel (all branches), their spouses, Department of Defense civilian employees, National Guard members, reservists, and veterans. Civilians, including Columbia-campus students, are welcome to take courses on a space-available basis, but they may not earn these associate degrees.

Learning Outcomes
Graduates will be able to:

- Identify and analyze issues, develop logical and persuasive arguments, and communicate ideas clearly for a variety of audiences and purposes through writing.
- Apply the methods of mathematical, statistical, or analytical reasoning to critically evaluate data, solve problems, and effectively communicate findings verbally and graphically.
- Apply the principles and language of the natural sciences and associated technologies to historical and contemporary issues.
- Communicate in more than one language.
- Use the principles of historical thinking to understand past human societies.
- Use the principles of the social sciences to explore diverse cultural identities and to analyze political and environmental issues.
- Create or interpret literary, visual or performing arts.
- and be able to demonstrate at least one of the following:
  - Identify and analyze issues, develop logical and persuasive arguments, and communicate ideas clearly for a variety of audiences and purposes through speaking.
  - Collect, manage and evaluate information using technology, and communicate findings.
  - Examine different kinds of social and personal values, analyzing the ways in which these are manifested in communities as well as individual lives.

Degree Requirements
Carolina Core - 15 Hours
These serve as general education requirements common to all associate degrees.

CMW – Effective, Engaged and Persuasive Communication: Writing (6 Hours)
Must be passed with a grade of C or higher
- any CMW course (p. 743)

SCI – Scientific Literacy (3 Hours)
- any SCI course (p. 743)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 Hours)
- any GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 Hours)
- any GSS course (p. 743)

Associate of Science Degree Curriculum - 60 Hours
1. Basic Requirements
2. Electives

Requirements (including 15 hours of Carolina Core stated above) (38-42 Hours)
All course selections are from the approved Carolina Core Learning Outcomes list unless otherwise specified.
CMW – Effective, Engaged and Persuasive Communication: Writing (6 Hours)
*Must be passed with a grade of C or higher*

ARP – Analytical Reasoning and Problem-Solving (6 Hours)
- Choose from MATH, CSCE, PHIL, STAT including MATH 111 or MATH 115

SCI – Scientific Literacy (8-12 Hours)
- Must include at least 2 laboratory science courses

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-3 Hours)
- One 3-hour language course at any level or score of “2” on placement exam

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 Hours)
- Any GHS course (p. 743)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (6 Hours)
- Any GSS course (p. 743)

AIU – Aesthetic and Interpretive Understanding (3 Hours)
- Any AIU course (p. 743)

Choose ONE of the following three options:
- CMS – Effective, Engaged and Persuasive Communication: Speech (3 Hours)
- INF – Information Literacy (3 Hours)
- VSR – Values, Ethics and Social Responsibility (3 Hours)

Electives for A.S. Degrees (18-22 Hours)
Electives may be any additional courses not used to fulfill the previously stated requirements. Students who intend to apply these credits toward a baccalaureate degree awarded by another campus or institution are advised to work closely with an academic advisor to choose electives that will meet preliminary requirements of the four-year major they wish to pursue. Of particular importance is completion of general education requirements. USC Columbia requires a minimum of 31 general education credit hours and a student planning to pursue a USC Columbia baccalaureate degree must complete these hours. These hours can be incorporated within the 60 hours required for an AA or AS degree when electives are carefully selected. Applying for an associate’s degree does not in any manner affect eligibility to apply for a baccalaureate degree, and vice versa.

Other Requirements
In addition to the requirements for the A.A. and A.S. degrees stated above, the following stipulations also apply:
- Students must have a cumulative GPA of 2.00 or better (does not include course grades earned by challenge examinations).
- The final 15 semester hours must be earned at USC.

- No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees.
- Pass-Fail option on elective courses is allowed.
- No more than 15 hours of nontraditional credits, which include DANTES, CLEP, and military experience.
- No more than 3 1-hour PEDU activity courses may count toward meeting Associate’s degree requirements (any track).

Second Associate’s Degree
At times the University of South Carolina Ft. Jackson confers a second associate’s degree upon candidates who have completed all requirements for the second degree, provided that the additional requirements for the second degree include a minimum of 12 semester hours beyond those required for the first degree earned at USC Ft. Jackson and a minimum of 72 semester hours total. Under this policy a student may apply for two degrees at one time or separately. In either case the student would receive two diplomas.
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• Anthropology (ANTH) (p. 538)
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Prerequisites: C or better in ACCT 401 and MGSC 291.

ACCT 222 - Survey of Accounting (3 Credits)
Survey of accounting topics related to business decisions including financial reporting, managerial accounting, and other special topics.
Prerequisites: MATH 122 or equivalent or sophomore standing.

ACCT 225 - Introduction to Financial Accounting (3 Credits)
User-oriented approach to the study of financial accounting and reporting topics related to business decisions.

ACCT 226 - Introduction to Managerial Accounting (3 Credits)
User-oriented approach to the study of managerial accounting topics related to business decisions.
Prerequisites: ACCT 225.

ACCT 324 - Survey of Commercial Law (3 Credits)
Basic legal concepts and the judicial system, with emphasis on business law.

ACCT 335 - Survey of Federal Taxation (3 Credits)
Federal tax law and preparation of individual income tax returns. Not allowed as an upper-division elective by accounting majors and not open for students who received credit for ACCT 403.

ACCT 401 - Financial Accounting I (3 Credits)
Accounting theory and practice as it relates to preparation of financial statements.
Prerequisites: ACCT 226.

ACCT 402 - Cost/Managerial Accounting (3 Credits)
Internal managerial and cost accounting, including budgeting, cost determination, and analysis.
Prerequisites: ACCT 226.

ACCT 403 - Tax I (3 Credits)
Overview of individual, corporate, and partnership taxation. Emphasis is on sole proprietorships.
Prerequisites: ACCT 401.

ACCT 404 - Accounting Information Systems I (3 Credits)
Accounting systems for business decision-making and effective control of the business enterprise.
Prerequisites: C or better in ACCT 401 and MGSC 291.
ACCT 405 - Financial Accounting II (3 Credits)
Additional accounting theory and practice as it relates to preparation of financial statements.
Prerequisites: ACCT 401.

ACCT 406 - Auditing I (3 Credits)
Principles of auditing necessary to evaluate the integrity of accounting systems and financial reporting.
Prerequisites: ACCT 404.
Prerequisite or Corequisite: ACCT 405.

ACCT 470 - Financial Statement Analysis (3 Credits)
This course focuses on the analysis of financial statements for profitability and risk assessment and for firm and segment valuation. Restricted to finance majors.
Prerequisites: ACCT 225, ACCT 226, and FINA 363.

Cross-listed course: FINA 470

ACCT 501 - Financial Accounting III (3 Credits)
Advanced topics in accounting theory and practice as it relates to preparation of financial statements.
Prerequisites: ACCT 405.

ACCT 502 - Managerial Accounting for Decision Making (3 Credits)
Advanced topics in the use of accounting information for managerial decisions.
Prerequisites: ACCT 402.

ACCT 503 - Tax II (3 Credits)
Advanced tax topics. Emphasis is on the taxation of partnerships and corporations.
Prerequisites: ACCT 403.

ACCT 504 - Legal Issues for Accountants & Managers (3 Credits)
The study of legal issues affecting accountants and managers.
Prerequisites: ACCT 324.

ACCT 505 - Governmental and Nonprofit Accounting (3 Credits)
Accounting principles and procedures for local, state, and federal governmental units and for private nonprofit organizations.
Prerequisites: ACCT 405.

ACCT 506 - International Financial Reporting (3 Credits)
Study of the principles and application of international financial reporting standards.
Prerequisites: ACCT 405.

Graduation with Leadership Distinction: GLD: Global Learning

ACCT 590 - Special Topics in Accounting (3 Credits)
Analysis of current topics, issues and practices in various areas of accounting. May be repeated as content varies by title.

Aerospace Engineering (AESP)

AESP 101 - Introduction into Aerospace Engineering (3 Credits)
Historical overview of air and space flight. Principles of flight and characterization of the atmosphere and space. Vehicle concepts, and an introduction to aerodynamics, materials, structures, propulsion, flight mechanics, control, aircraft systems, and design.

AESP 265 - Aerodynamics I Incompressible Flow (3 Credits)
Prerequisites: MATH 242, EMCH 201.

AESP 314 - Energy Power and Propulsion (3 Credits)
Introduction to aircraft and rocket engines with emphasis on the performance and characteristics of various types of propulsion systems, including turbojet, turbofan, turboprop, ramjet, scramjet and liquid & solid propellant rockets.
Prerequisites: EMCH 290.

AESP 350 - Aerospace Systems (3 Credits)
Fundamentals of flight control systems, engine control systems, fuel systems, hydraulic systems, landing gears, electrical systems, environmental control systems, emergency systems, avionics and rotary wing systems. Aerospace systems design and development methodology.
Prerequisites: PHYS 212.

AESP 361 - Aerospace Laboratory I (3 Credits)
Aerospace component experiments: drag polar and Cm-alpha curve for an airfoil, fuselage and landing gear drag; compliance matrix of an isotropic and a laminated composite; mechanical and thermal properties of various aerospace materials; reporting.
Prerequisites: STAT 509, AESP 265.
Prerequisite or Corequisite: EMCH 371, EMCH 310.

AESP 362 - Aerospace Laboratory II (3 Credits)
Introduction to experimental determination of structures, propulsion and systems aspects of aerospace engineering. Oral and written presentations and reports.
Prerequisites: AESP 361.

AESP 415 - Aircraft Design Part I Basics (3 Credits)
Aircraft mission analysis; Conceptual aircraft design; Weight estimation; Wing design; Payload compartment design; Stabilizer and control surface design; engine selection; aircraft systems design; performance analysis; trade studies; design verification; design documentation and presentation.
Prerequisites: AESP 265.
Prerequisite or Corequisite: AESP 350 and AESP 314.

Graduation with Leadership Distinction: GLD: Research

AESP 420 - Flight and Orbital Mechanics (3 Credits)
Derivation of the general equations of motion (EoM) for aircraft and space flight. Solution of Aircraft EoM for cruise flight and flight maneuvers including coordinated turns, takeoff and landing. Solution of EoM for orbital mechanics problems including transfer trajectories. Calculation of required specific impulses. Design of interplanetary trajectories.
Prerequisites: MATH 141, EMCH 200, EMCH 310.
AESP 428 - Design I (3 Credits)
Prerequisites: AESP 350, EMCH 577.
Prerequisite or Corequisite: AESP 314, EMCH 377.

Graduation with Leadership Distinction: GLD: Research

AESP 466 - Flight Dynamics and Control (3 Credits)
Flight Dynamics and Control is a three-credit course that covers the dynamics of aircraft motion, methods of analysis and design for stability and control, longitudinal motions, lateral-directional motions, and coupled longitudinal and lateral-directional motions.
Prerequisites: EMCH 330 or ENCP 330, AESP 420.

Aerospace Studies (AERO)

AERO 101 - The Foundation of the U.S. Air Force I (1 Credit)
Survey course introducing students to the U.S. Air Force and AFROTC. Topics include mission and organization of the Air Force, officerhood, professionalism, military customs and courtesies, and officer career opportunities.

AERO 101L - Initial Military Training Cadet Leadership Laboratory I (0 Credits)
Provides cadets the basic skills/knowledge to be functional members of the cadet corps, and activities to build camaraderie and esprit-de-corps. Includes mandatory physical fitness program.

AERO 102 - The Foundation of the U.S. Air Force II (1 Credit)
Continuation of AERO 101. Additional topics include Air Force core values, leadership principles, group leadership dynamics, and an introduction to verbal and written communication skills.

AERO 102L - Initial Military Training Cadet Leadership Laboratory II (0 Credits)
Continuation of AERO 101L. Exposure to additional information on an Air Force career. Scenarios and problems teach followership and leadership skills. Includes mandatory physical fitness program.

AERO 201 - The Evolution of the U.S. Air Force I (1 Credit)
Examines USAF air and space power from a historical perspective. Covers the earliest aircraft, both World Wars, the Korean and Vietnam conflicts, and air and space employment during the Cold War.

AERO 201L - Field Training Preparation Cadet Leadership Laboratory I (0 Credits)
Preparation of students for summer training at an Air Force base; teaching drill and other leadership experiences. Includes mandatory physical fitness program.

AERO 202 - The Evolution of the U.S. Air Force II (1 Credit)
Continuation of AERO 201. This course continues to explore Air Force history, beginning with the Vietnam era and culminating with the application of air and space power in recent conflicts.

AERO 202L - Initial Field Training Preparation Cadet Leadership Laboratory II (0 Credits)
Continuation of AERO 201L. Focuses on AFROTC Honor Code, Field Training Manual/procedures, and expeditionary skills required at field training. Includes mandatory physical fitness program.

AERO 301 - Air Force Leadership Studies I (4 Credits)
Study of leadership, management fundamentals, the profession of arms, personnel evaluation systems, ethics, motivation, team building, change management, and communication skills. Analyses of leadership and management case studies.
Corequisite: AERO 301L.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 301L - Intermediate Cadet Leader Leadership Laboratory I (0 Credits)
Provides cadets opportunities to develop leadership and followership skills, as well as sharpen their planning, organization, and communication ability. Includes mandatory physical fitness program.
Corequisite: AERO 301.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 302 - Air Force Leadership Studies II (4 Credits)
Continuation of AERO 301. Topics include developing subordinates, conflict management, counseling, influence, authority and responsibility, accountability, and moral leadership. Includes case studies on effective supervision and accountability.
Corequisites: AERO 301.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 301L - Intermediate Cadet Leader Leadership Laboratory II (0 Credits)
Continuation of AERO 301L. Allows intermediate cadet leaders to further develop leadership and management skills essential in Air Force officers. Includes mandatory physical fitness program.
Corequisites: AERO 301L.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AERO 302L - Intermediate Cadet Leader Leadership Laboratory II (0 Credits)
Continuation of AERO 302L. Provides senior cadet leaders opportunities to develop leadership and supervisory skills, and to effectively manage resources toward mission accomplishment. Includes mandatory physical fitness program.
Corequisite: AERO 401.
AERO 402 - Preparation for Active Duty (4 Credits)
Continuation of AERO 401. Topics include additional regional studies, military justice, personnel feedback, evaluation and promotion systems, the military profession, current issues affecting the military, and preparation for active duty.
Prerequisites: AERO 401.
Corequisite: AERO 402L.

AERO 402L - Senior Cadet Leader Leadership Laboratory II (0 Credits)
Continuation of AERO 401L. Allows senior cadet leaders advanced opportunities to hone their leadership in preparation for entering active duty. Includes mandatory physical fitness program.
Prerequisites: AERO 401L.
Corequisite: AERO 402.

AERO 499L - Extended Cadet Leader Leadership Laboratory (0 Credits)
Provides extended cadet leaders opportunities to continue developing leadership, managerial, and communication skills, and to mentor junior cadet corps members. Includes mandatory physical fitness program.
Prerequisites: 402L.

African Amer Studies (AFAM)

AFAM 200 - Freedom Papers: Narratives of Race and Nation (3 Credits)
A study of the United States founding documents that emphasizes how the experiences of African American citizens throughout history and culture shape the country’s values, norms, and ideals.

AFAM 201 - Introduction to African American Studies: Social and Historical Foundations (3 Credits)
Introduction to the key debates, figures, and concepts that are fundamental to the interdisciplinary study of the historical, political, and social development of black life in America.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 202 - Introduction to African-American Studies (3 Credits)
Introduction to the analysis and discussion of creative works and traditions by and about African Americans through folklore, music, art, dance, and literature.
Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 207 - Introduction to African American Religions (3 Credits)
The variety of religious traditions of African Americans, with emphasis on the contexts in which they developed.
Cross-listed course: RELG 207
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 218 - Convergence and Divergence in African American and Jewish Relations: Historical and Contemporary (3 Credits)
An examination of African American and Jewish American inter-ethnic, historical and contemporary connections and disconnections. Implications for educational, social, and social settings are considered.
Cross-listed course: EDTE 218, JSTU 218
Carolina Core: GSS, VSR

AFAM 303 - African-American Cultures (3 Credits)
An examination of African-American cultures in the New World.
Cross-listed course: ANTH 231
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 308 - African-American Feminist Theory (3 Credits)
An interdisciplinary survey of the contributions of African-American women to feminist theory.
Cross-listed course: WGST 308
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 330 - Psychology and the African-American Experience (3 Credits)
Psychological theory and research as it applies to African Americans. Explores Africentric and other perspectives and roles of culture, racism, and historical phenomena.
Cross-listed course: PSYC 330
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 331 - Black Experience in the United States to 1865 (3 Credits)
The social, cultural, economic, and political life of black people in the United States to 1865.
Cross-listed course: HIST 211
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 332 - Black Experience in the United States since 1865 (3 Credits)
The social, cultural, economic, and political life of black people in the United States since 1865.
Cross-listed course: HIST 212
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 335 - The American Civil Rights Movement (3 Credits)
Examination of the origins of Jim Crow and the multi-faceted struggle against it, and other forms of racial inequality, in the American South and the rest of the US since the early 20th century.
Cross-listed course: HIST 455
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 343 - Religions of the African Diaspora (3 Credits)
Explore development/theologies of African/African Diaspora religions; examine misunderstandings; arrive at a more sophisticated and nuanced vision of these religions and the people who hold them.
Cross-listed course: RELG 343
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 348 - Environmental Racism and Justice (3 Credits)
History of the environmental justice movement and the unequal distribution of environmental harms on low income, minority, and historically marginalized groups.
Cross-listed course: ENVR 348
AFAM 350 - Antiracist Education (3 Credits)
Basic concepts, issues, and practices of antiracist education. Topics include individual and institutional racism, overt and covert racism, curriculum, textbooks, power relationships, teacher-student relationships, and privacy.
Cross-listed course: EDFI 350
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 353 - Introduction to U.S. Racial and Ethnic Politics (3 Credits)
Survey of theories of the impact of race, ethnicity, and racism on American politics, and analysis of major policies and racial group experience regarding American citizenship.
Cross-listed course: POLI 353
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 355 - Race and Ethnic Relations (3 Credits)
Theoretical and empirical approaches related to race/ethnicity and the current state of race relations in American, with some attention to global issues.
Cross-listed course: SOCY 355
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 364 - African-American Politics (3 Credits)
African-American politics from the colonial period to the present. Emphasis on voting rights and strategies to advance black representation.
Cross-listed course: POLI 364
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 365 - Medical Experimentation and the Black Body (3 Credits)
A cross-disciplinary study of how the bodies of Africans and African Americans were used in medical experimentation, starting in the late 18th century and continuing to the present.
Cross-listed course: ANTH 263
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 366 - Medicine, Disease, and Slavery (3 Credits)
An interdisciplinary study of the health of enslaved African Americans during the nineteenth century by focusing on the conceptions, experiences, and dynamics of the relationship between slaves, medicine, healing, and their masters in the Antebellum American South.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 380 - Cultural History of Hip Hop Music (3 Credits)
Roots of rap/hip hop music from African bardic tradition to African American vernacular traditions and development as a musical genre; rap's musical and verbal traits and political ideologies; hip hop's influence on mainstream American society and global youth.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 393 - Race and Science Fiction (3 Credits)
Draws on science fiction to understand the contemporary history of American racial and ethnic politics and to speculate about the significance of race in America's political future.
Cross-listed course: POLI 393
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 397 - Special Topics in African American Society and History (3 Credits)
Reading and research on selected social and historical topics in African American studies. May be repeated as content varies by title.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 398 - Special Topics in African-American Arts and Cultures (3 Credits)
Reading and research on selected arts and cultural topics in African-American studies. May be repeated as content varies by title.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

AFAM 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

AFAM 402 - African American Political Thought (3 Credits)
Survey of many of the major schools of historic and contemporary African American political thought.
Cross-listed course: POLI 402
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 420 - Slavery, Literature & Culture (3 Credits)
Interdisciplinary analysis of how the experiences of enslaved people are represented through fiction, autobiography, film, art, and new media.
AFAM 428A - African-American Literature I: to 1903 (3 Credits)
Representative works of African-American writers to 1903.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.
Cross-listed course: ENGL 428A
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 428B - African-American Literature II: 1903 – Present (3 Credits)
Representative works of African-American writers from 1903 to the present.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.
Cross-listed course: ENGL 428B
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
AFAM 438D - African Literature (3 Credits)
Authors and literary forms representative of Africa.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.
Cross-listed course: ENGL 438D
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 438E - Caribbean Literature (3 Credits)
Authors and literary forms representative of the Caribbean.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.
Cross-listed course: ENGL 438E
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 442 - African-American English (3 Credits)
Linguistic examination of the structure, history, and use of African-American English, as well as literary presentations, language attitudes, and issues relating to education and the acquisition of Standard English.
Cross-listed course: ANTH 442, ENGL 457, LING 442
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 463 - Jim Crow: Histories & Revivals (3 Credits)
This course critically examines the continuities and discontinuities between Jim Crow and our current historical and political moment.
Cross-listed course: HIST 463

AFAM 476 - Black Activism (3 Credits)
Critical review of theories of community organizing, grassroots activism, and social movements, and examination of contemporary forms of black activism.
Cross-listed course: POLI 476
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 486 - African-American Rhetoric (3 Credits)
African-American rhetoric as manifested in speeches, essays, and other rhetorical artifacts.
Prerequisites: WGST 111 or WGST 112 or ANTH 102.
Cross-listed course: ENGL 486, SPCH 486
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 487 - Black Women Writers (3 Credits)
An examination of literature by and about black women, including fiction, poetry, drama, and autobiography. This study will focus on issues that emerge from the creative representations of black women and the intersections of race, gender, sexuality, and class that interrogate what is both particular and universal experiences.
Prerequisites: ENGL 101, ENGL 102.
Cross-listed course: ENGL 487, WGST 487
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 498 - Seminar in African-American Studies (3 Credits)
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 499 - Seminar in African-American Studies (3 Credits)
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 515 - Race, Gender, and Graphic Novels (3 Credits)
Representations of race and gender in comics with a special emphasis on the experiences of African Americans.
Cross-listed course: WGST 515
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

AFAM 517 - An Anthropological View of Blacks in Film (3 Credits)
Cultural representations, constructions, production, and consumption of African-American identity in the popular culture medium of feature films.
Cross-listed course: ANTH 517
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 556 - African American Theatre (3 Credits)
The major movements, figures, plays, and critical strategies that have marked the development of African American theatre in the 19th, 20th, and 21st centuries.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.
Cross-listed course: ENGL 556, THEA 556
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

AFAM 580 - Culture and Identity in the African Diaspora (3 Credits)
Students will explore the African Diaspora as a social, cultural, and historical formation with Africa at its center, focusing on US, Latin American, and Caribbean African-descended communities.
Cross-listed course: ANTH 580
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

American Sign Language (ASLG)

ASLG 121 - Elementary American Sign Language (4 Credits)
Introduction to basic vocabulary and common grammar structures of ASL. Focus on communication and familiarization with aspects of deaf culture. This course does not satisfy the foreign language requirements of any college.

ASLG 122 - Basic Proficiency in American Sign Language (4 Credits)
Practice and further development in the language and culture of the American deaf community. This course does not satisfy the foreign language requirement of any college.
Prerequisites: ASLG 121.

Anthropology (ANTH)

ANTH 101 - Primates, People, and Prehistory (3 Credits)
An exploration of human origins, human evolution, human prehistory, and cultural existence from its less complex forms to early civilizations. An introduction to the concepts, methods, and data of physical, biological, and archaeological anthropology.
Carolina Core: GSS
ANTH 102 - Understanding Other Cultures (3 Credits)
An exploration and comparison of selected contemporary cultures, including their languages. An introduction to the concepts, methods, and data of socio-cultural anthropology and anthropological linguistics.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 161 - Human Origins: An Introduction to Biological Anthropology (4 Credits)
An introduction to the science of biological anthropology, a sub-field of anthropology that emphasizes a focus on humanity and its origin from a biological perspective, employing laboratory components to complement and reinforce lecture materials.
Carolina Core: SCI

ANTH 201 - Anthropological Inquiry in Undergraduate Research (3 Credits)
Introduces research-based learning in anthropology from a four-field perspective. To encourage self-reflective, professional thinking and provide experience and practice in professional skills and applications in anthropology.
Graduation with Leadership Distinction: GLD: Research

ANTH 203 - Comparing Cultures Through Film (3 Credits)
Human behavior in differing cultural contexts through ethnographic films of social relations in selected societies.

ANTH 204 - Plagues Past and Present (3 Credits)
An overview of how plagues and epidemics have shaped human prehistory and history. How large-scale social transformations have produced forms of human/disease interactions. How infectious disease has been conceptualized at different times and by different cultural groups and treated as a threat to the social order.
Carolina Core: GSS

ANTH 206 - Anthropology of Magic and Religion (3 Credits)
A comparative examination of such topics as ritual, cosmology, revitalization movements, magic, witchcraft, myth, and possession.
Cross-listed course: RELG 260

ANTH 207 - Gender and Culture (3 Credits)
Anthropological study of gender, with emphasis on cross-cultural investigation of the interaction of biological, cultural, and environmental factors including intersections of race, social class, and sexuality as influences gender behavior.
Cross-listed course: WGST 207
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 208 - Anthropology of Globalization and Development (3 Credits)
Examine cross-cultural definitions and experiences of globalization and development, through topics including colonial legacies of inequality, migration, land use, economic restructuring, media, consumption, tourism, health, and participatory development.
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 209 - Introduction to Folklore (3 Credits)
Folk expression as shaped by various cultures; fieldwork methodology and anthropological theory.

ANTH 210 - Human Life Cycles in Different Cultures (3 Credits)
Childhood, maturity, old age, and gender socialization within the family.
Cross-listed course: WGST 210
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 211 - Learning Across Cultures (3 Credits)
Classroom ethnography, bilingualism, cultural minorities, communication across cultural boundaries. Films, videotapes, and fieldwork in classroom settings.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 212 - Food and Culture (3 Credits)
Biological and cultural interactions affecting foodways around the world, and associated ethical issues.
Carolina Core: GSS, VSR
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 213 - Ethnobotany: Plants and Peoples (3 Credits)
Anthropological overview of the interactions between cultures around the world and the plants that affect them, from cultural, biological, archaeological, and linguistic points of view.
Carolina Core: GSS

ANTH 214 - Drinking in Culture: Anthropology of Alcohol (3 Credits)
Cultures of alcohol production and consumption from ancient times to the present, including relationships among social roles of alcohol, technological innovations, agriculture, and economy in an anthropological perspective.

ANTH 216 - Violence and Peace: Anthropological Perspectives (3 Credits)
Violence and peace in current events, cultural practices, historical periods, and everyday experiences. The ethics shaping violence and peace-making strategies. Classroom discussions and lectures analyzing harm and wellbeing. Themes addressing the Values, Ethics, and Social Responsibility (VSR) Carolina Core component, including colonialism, environmental exploitation, bondage, mass extinctions, and racism.
Carolina Core: VSR

ANTH 219 - Great Discoveries in Archaeology (3 Credits)
Survey of key archaeological discoveries from around the world.

ANTH 221 - Forensics of Sherlock Holmes (3 Credits)
Forensic methods of Sherlock Holmes within the context of modern forensic science. Aspects of forensic science including history of the discipline, forensic pathology, entomology, print analyses, crime scene analysis, forensic anthropology, early scientific theory, and anthropological theory of Holmes.

ANTH 223 - Modernity Archaeology and the Recent Past (3 Credits)
Explores the last five centuries of world history, using artifacts and archival sources. Evidence such as probate records, bottles, and geophysical maps are analyzed to discover the age of sites and answers to questions about topics such as colonialism, race, technology, piracy, class, Native Americans, industrialization, slavery, inequality, capitalism, and gender.
ANTH 224 - Indigenous Caribbean Archaeology (3 Credits)
Historical archaeology and ethnography of the Casimiroid, Ortoioiroid, Saladoioid, Ostionoid, Taino and Carib indigenous culture of the Caribbean from 4,000 BC to 1524 AD. Emphasis on social complexity, religion, art and political organization to illustrate the diversity and richness of Amerindian Caribbean life until their rapid decline after European contact.

ANTH 225 - Archaeology in Film and Popular Culture (3 Credits)
Archaeological images and ideas in modern popular culture, including film and fiction.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 226 - Biblical Archaeology (3 Credits)
The fundamental elements of human culture as it relates to biblical archaeology. The defining characteristics of different kinds of society through interdependency of language and culture. The affects of modern world interests in defining / redefining this area
Cross-listed course: RELG 208

ANTH 227 - Forbidden Archaeology: Fantasies, Frauds, and Mysteries of the Human Past (3 Credits)
History and basis of several popular “fringe” ideas about the human past that utilize archaeological information: giants, Ice Age civilizations, and pre-Columbian transoceanic contact.

ANTH 229 - Southeastern Archaeology (3 Credits)
Major cultural milestones and lifeways experienced by Indians in the archeological record of the southeastern U.S., including colonization, religion, trade, invention of pottery, and place-making.

ANTH 230 - Diversity in the United States (3 Credits)
Application of techniques and insights of social and cultural anthropology to selected cultural settings in contemporary USA.

ANTH 231 - African-American Cultures (3 Credits)
An examination of African-American cultures in the New World.
Cross-listed course: AFAM 303
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 232 - Contemp Cultures of South Carolina (3 Credits)
Application of the methods & techniques of socio-cultural anthropology to the contemporary cultures of SC. Examination of contrasts such as low country and up country, black and white, and rich and poor as they are manifested in cultural patterns.

ANTH 234 - Caribbean Cultures (3 Credits)
Ethnographic approach to Caribbean cultures and societies. Topics include colonial histories and experience, gender and race relations, beliefs and religious life, verbal arts, literature, and Creole language.

ANTH 236 - Cultures of Africa (3 Credits)
A comparative study of ethnographic data on African cultures with emphasis upon its significance for broader anthropological theory.

ANTH 237 - Cultures of Islam (3 Credits)
Diversity of lifestyles and institutions of Islam from Morocco to Indonesia, with attention to everyday life in small communities.

ANTH 238 - Middle Eastern Cultures (3 Credits)
A consideration of selected problems in the social and cultural life of peoples in the Middle East with emphasis on non-Arab populations.

ANTH 240 - South Asian Cultures (3 Credits)
Society and culture in South Asia; economic and political institutions, kinship, and religion as they pertain to the daily lives of people in the Subcontinent. Emphasis on India. Bangladesh, Nepal, Pakistan, and Sri Lanka also included.

ANTH 241 - Southeast Asian Cultures (3 Credits)
Social and cultural patterns of the region and how they influence current developments, especially Indonesia, Thailand, Vietnam, and the Philippines.

ANTH 242 - Chinese Popular Culture (3 Credits)
An overview of Chinese popular culture with an introduction to broad anthropological frameworks concerning popular culture.
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 243 - Japanese Cultures (3 Credits)
An exploration of Japanese values and the institutions that shape Japanese behavior through analysis or rural and urban community studies and how Japanese people present themselves.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Internships

ANTH 244 - American Indian Nations Today: From Hard Times to Hard Rock (3 Credits)
Contemporary Indian Country in anthropological, historical, cultural, economic, and political contexts.
Carolina Core: GSS, VSR

ANTH 260 - Planet of the Apes: Behavior and Biology (3 Credits)
A survey of field and laboratory investigations of the comparative anatomy and behavior of nonhuman primates.

ANTH 261 - Human Variation (3 Credits)
The biocultural processes of human variation.

ANTH 262 - Basic Forensic Anthropology (3 Credits)
Survey of the basic scientific methods and applications of forensic anthropology.

ANTH 263 - Medical Experimentation and the Black Body (3 Credits)
A cross-disciplinary study of how the bodies of Africans and African Americans were used in medical experimentation, starting in the late 18th century and continuing to the present.
Cross-listed course: AFAM 365
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 270 - Anthropology of Nonverbal Communication (3 Credits)
Body language, facial expressions, gestures, use of interpersonal space, and other nonverbal systems of communication and behavior in terms of pertinent theories, research methodology, findings, and cross-cultural implications.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ANTH 271 - Language and Popular Culture (3 Credits)
Linguistic anthropological study of forms of language through the lens of popular culture. Explore the ethnography of communication through play and performance, discursive and semiotic practices, and varieties of language invoked in popular cultural forms that provide resources for cultural reproduction and contestation.
Cross-listed course: LING 241
ANTH 273 - Cross-Cultural Communication (3 Credits)
This course introduces students to the fields of interactional sociolinguistics and linguistic anthropology. Students will learn how they approach the study of cross-cultural and intercultural forms of (mis)communication within the context of globally interconnected people, places, and systems of communication.
Cross-listed course: LING 273
Carolina Core: GSS

ANTH 280 - Humans Going Nuclear: Atomic Bombs, Cold War, and the Fallout (3 Credits)
Ethnographic study of the Cold War, nuclear culture, and its aftermath.
Carolina Core: GSS, VSR

ANTH 291 - Selected Topics in Anthropology (1-3 Credits)
Topics of special interest. May be taken more than once as topics change.

ANTH 292 - Disease, Health, and Social Inequities (3 Credits)
Course focuses on political and economic processes contributing to the unequal access to health and social inequalities.

ANTH 301 - Latin American Cultures (3 Credits)
Comparative study of selected Latin American cultures with emphasis on their significance for a broader anthropological theory.
Cross-listed course: LASP 311
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 313 - Ethical Dilemmas in Anthropology (1 Credit)
An examination of ethical decision-making encountered in the practice of anthropology.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 319 - Principles of Archaeology (3 Credits)
Introduction to principles, methods, and theory of archaeology, including prehistoric and historic case studies.

ANTH 320 - Archaeology Theory (3 Credits)
This course charts the history of ideas in archaeology, over the past century, as a means of understanding current directions in archaeological thinking and current applications in archaeological practice.
Prerequisites: ANTH 319.

ANTH 321 - South Carolina Archaeology (3 Credits)
Prehistoric and historic archaeology of South Carolina.

ANTH 322 - Field School in Archaeology (3-6 Credits)
Archaeological field techniques, laboratory analysis and data interpretation.
Prerequisites: ANTH 319.

ANTH 323 - Field School in Ethnography (3-6 Credits)
Designing and carrying out ethnographic research including project design, data collection, analysis and description.

ANTH 324 - Ethnoarchaeology (3 Credits)
Current research on use of modern material culture in archaeological analysis.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 327 - Prehistoric Civilizations of the New World (3 Credits)
Study of Mesoamerican and South American civilizations, particularly the Mayan, Aztec, and Inca states. Processes of state formation as reflected in archaeological data.
Cross-listed course: LASP 325

ANTH 328 - Ancient Civilizations (3 Credits)
Causes for the rise and fall of several civilizations; ideological and ecological factors, unique events, and personalities versus general processes.

ANTH 331 - Mesoamerican Prehistory (3 Credits)
Cultural development and variation in Mesoamerica from the first arrival of man to the arrival of Europeans. Particular attention to cultural continuities from prehistoric times.
Cross-listed course: LASP 322

ANTH 333 - North American Prehistory (3 Credits)
Prehistoric anthropology in North America from the first arrival of man through the beginning of European acculturation.

ANTH 342 - Environmental Anthropology: Cross-cultural Perspectives on Environmental Change (3 Credits)
Cross-cultural perspectives on environmental issues.
Cross-listed course: ENV 342

ANTH 349 - Anthropology of Work (3 Credits)
Techniques, customs, verbal expressions, and expressive styles of workers in a variety of occupational cultures.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 350 - Anthropology & Development (3 Credits)
An examination of political and economic change in contemporary peasant communities.
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 351 - The Family in Cross-Cultural Perspective (3 Credits)
Kinship, systems of descent, marriage, and domestic organization in different cultures. Variations in childrearing practices, gender, and other aspects of social relations in kin groups.
Cross-listed course: WGST 351
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 353 - Anthropology of Law and Conflict (3 Credits)
Understanding human behavior through the examination of cultural norms, mechanisms of social control, and social conflict.
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 355 - Language, Culture, and Society (3 Credits)
Language in its social setting. The relationship between linguistic categories and culture categories. Language and cognition.
Cross-listed course: LING 340
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 356 - Anthropology of Art (3 Credits)
Sculpture, drama, ceramics, weaving, music, and other arts from tribal societies will be discussed in terms of the religious, social, and aesthetic principles that underlie their production, use, and interpretation.
ANTH 357 - Psychological Anthropology (3 Credits)
Cultural differences and pan-cultural similarities in such psychological features as personality and cognition.

ANTH 359 - Theories of Culture (3 Credits)
Theory and practice of ethnology/sociocultural anthropology, based on a wide range of simple and complex societies.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 360 - Anthropology of Sex (3 Credits)
An overview of human sexuality in different cultures in regions across the globe; an examination of anthropological frameworks for sexuality that draws on historical and modern cultural conceptions.
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 361 - Becoming Human (3 Credits)
The processes of hominoid development with a review of the basic principles of physical and behavioral evolution using the fossil record and the evolving ecological and psychosocial contexts.

ANTH 366 - Medicine, Disease and Slavery (3 Credits)
An interdisciplinary study of the health of enslaved African Americans during the nineteenth century by focusing on the conceptions, experiences, and dynamics of the relationship between slaves, medicine, healing, and their masters in the Antebellum American South.
Carolina Core: GSS

ANTH 371 - Ethnography of Communication (3 Credits)
Ethnographic analysis of communication in human groups and institutions.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 373 - Introduction to Language Sciences (3 Credits)
Introduction to the linguistic component of human cognition. Properties of speech, the organization of language in the mind/brain, cross-linguistic universals, child language acquisition, and aspects of adult language processing.
Cross-listed course: LING 300, PSYC 470

ANTH 374 - Cognitive and Social Aspects of Bilingualism (3 Credits)
Bilingual language development, social and cultural aspects of bilingualism, the bilingual brain, bilingualism throughout the lifespan.

ANTH 381 - Gender and Globalization (3 Credits)
Examines the dialectic between globalization and the social construction of gender. Topics include the global assembly line, transnational markets for domestic labor and sex workers, and global feminist alliances.
Prerequisites: WGST 111 or WGST 112 or ANTH 102.
Cross-listed course: WGST 381
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 388 - Cultures, Pregnancy, and Birth (3 Credits)
Comparative ethnological study of pregnancy and birth with a cross-cultural focus comparing the United States to other nations. Examination of cultural factors such as prenatal care, dietary practices, taboos, birth location, practitioners, and birthing styles.
Cross-listed course: WGST 388
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 391 - Selected Topics in Anthropology (1-3 Credits)
Topics of special interest. May be taken more than once as topics change.

ANTH 392 - Global Women's Health (3 Credits)
This course examines health concerns important to the lives of women around the world through an overview of contemporary issues and challenges in the field of global health, broadly construed.
Cross-listed course: WGST 392
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 399 - Independent Study (3-6 Credits)
Graduation with Leadership Distinction: GLD: Research

ANTH 442 - African-American English (3 Credits)
Linguistic examination of the structure, history, and use of African-American English, as well as literary presentations, language attitudes, and issues relating to education and the acquisition of Standard English.
Cross-listed course: AFAM 442, ENGL 457, LING 442
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 498 - Senior Thesis (3 Credits)
Directed research resulting in a written report.
Prerequisites: GPA of 3.00.
Graduation with Leadership Distinction: GLD: Research

ANTH 499 - In the Tradition of Anthropology (3 Credits)
A seminar synthesizing the major with an examination of anthropology as a field of inquiry.

ANTH 512 - Gender Issues in China (3 Credits)

ANTH 513 - Anthropological Ethnobotany (3 Credits)
Survey of how each anthropological subfield studies the interrelationships between plants and peoples. Application of methods, including interviewing and data analysis.

ANTH 515 - Tradition and Transformations in Islamic Cultures (3 Credits)
Islam as a dynamic cultural tradition: emphasis on the tension between Islamization and the larger Islamic tradition.
Cross-listed course: RELG 551
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

ANTH 517 - An Anthropological View of Blacks in Film (3 Credits)
Cultural representations, constructions, production, and consumption of African-American identity in the popular culture medium of feature films.
Cross-listed course: AFAM 517
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 518 - Visual Cultures (3 Credits)
Survey of visual anthropology including theoretical frameworks of ways of seeing, ethnographic photography and filmmaking, contemporary technologies, and their effects on culture.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 520 - Field Problems in Ethnology (6 Credits)
A two-semester class and field session. Research design, field methods, interpretation of data, and the development of theory from the data.

ANTH 525 - Ethnoecology (3 Credits)
Seminar exploring human-plant-animal-natural interactions within an anthropological framework.
АНТН 533 - North American Archaeology (3 Credits)
Prehistoric and historic archaeology.

АНТН 534 - Prehistoric Archaeology of South America (3 Credits)
Prehistoric archaeology of the South American continent.

Cross-listed course: LASP 425

АНТН 535 - Conflict Archaeology (3 Credits)
Anthropological and archaeological theories and methods in the study of conflict, war, and warfare. Causes, effects, outcomes of sustained social acts of violence of groups, tribes, states, and nations. Evolutionary, biological, social origins of warfare. History, strategy, and tactics, battlefield archaeology.

АНТН 536 - Public Archaeology (3 Credits)
Philosophy and mechanics of modern archaeological Cultural Resource Management (CRM). CRM legislation, regulation, and process. Contemporary issues and problems in Public Archaeology including Native American reburial negotiations, conflict resolution, ethics, looting, business practices, standards, contexts and protection.

АНТН 541 - Field Problems in Archaeology (3 Credits)
Archaeological field methods and techniques such as excavation, flotation, sampling, surveying, photography, and remote sensing.

Prerequisites: ANTH 320.

АНТН 546 - Forensic Archaeological Recovery (FAR) (3 Credits)

АНТН 550 - Archaeological Laboratory Methods (3 Credits)
Laboratory on basic prehistoric and historic artifact analysis, including analytical methods, laboratory equipment, and data interpretation. May be repeated.

Prerequisites: ANTH 319 or ANTH 322.

АНТН 551 - Medical Anthropology: Fieldwork (3 Credits)
Application of observation techniques, field notes, informant interviewing, and secondary data analysis to interpreting differential perceptions of health problem solving in the community and clinic.

АНТН 552 - Medical Anthropology (3 Credits)
Socio-cultural factors in health, illness, healing, and in medical systems. Cross-cultural and ethnographic evidence for public health research and program applications.

Cross-listed course: HPEB 552

Graduation with Leadership Distinction: GLD: Research

АНТН 553 - Anthropological Approaches to Narrative and Performance (3 Credits)
The ways people from various cultures reflect on, reinforce, and construct their social realities through narrating, which will be considered as both artistic expression and social action.

Cross-listed course: LING 545

АНТН 555 - Language and Gender (3 Credits)
Approaches to gender and language emphasizing the social grounding of both; how language reflects sociocultural values and is a tool for constructing different types of social organization.

Cross-listed course: LING 541, WGST 555

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

АНТН 556 - Language and Globalization (3 Credits)
Anthropological approach to issues of language and globalization. Linguistic consequences of globalization under consideration include communicative patterns, linguistic change, and language and political economy.

Cross-listed course: LING 556

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

АНТН 557 - Psychological Anthropology (3 Credits)
Psychological aspects of behavior from a cross-cultural perspective.

АНТН 561 - Human Osteology (4 Credits)
An intensive examination of the human skeleton and techniques for anthropological interpretation.

АНТН 565 - Health and Disease in the Past (3 Credits)
Varieties and effects of disease patterns among past populations illustrating biological, environmental, and cultural interrelationships.

АНТН 567 - Human Identification in Forensic Anthropology (3 Credits)
Theories and methodologies necessary for the identification of human skeletal remains in a forensic setting.

АНТН 568 - Nutritional Anthropology (3 Credits)

АНТН 569 - International Development and the Environment (3 Credits)
Intersections of international development and environmental change; study of general theoretical perspectives balanced with case studies from the Global South.

Cross-listed course: GEOG 569

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

АНТН 570 - Ethnographic Film (3 Credits)
Problems in conveying and interpreting ethnographic information on film or tape. Includes syntax, suitability of subject matter to the medium, irrelevant or distracting information, and observer bias.

АНТН 572 - Temporal Processes in Culture (3 Credits)
Clocks, cycles, and contingencies as they affect human societies now and have done so in the past. Theories and models from biology and the other natural sciences will be used to interpret the history of culture.

АНТН 575 - Economic Anthropology (3 Credits)
A cross-cultural study of the economic behavior of pre-literate and literate societies.

АНТН 576 - Archaeology of the African Diaspora (3 Credits)
Foodways, architecture, crafts, and narrative of African-American cultures.

АНТН 577 - Advanced Topics in the Anthropological Study of Social Organization (3 Credits)
Selected recent theoretical and methodological developments in the study of social organization.

АНТН 579 - Cultural Ecology (3 Credits)
An interdisciplinary approach to prehistoric, historic, and contemporary relationships between the development of socio-cultural configurations and ecosystems.
ANTH 580 - Culture and Identity in the African Diaspora (3 Credits)
Students will explore the African Diaspora as a social, cultural, and historical formation with Africa at its center, focusing on US, Latin American, and Caribbean African-descended communities.
Cross-listed course: AFAM 580
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ANTH 581 - Globalization and Cultural Questions (3 Credits)
This course examines cultural understandings of and responses to globalization, examining topics such as its history and theories, migration, economic integration and inequality, identity, social movements, and the environment.
Cross-listed course: GEOG 581
Graduation with Leadership Distinction: GLD: Global Learning

ANTH 586 - Discourse, Gender and Politics of Emotion (3 Credits)
Anthropological approach to issues of discourse, gender and emotion. Issues under consideration include the social control, force, and forms of emotional discourse and the relationship between emotion and culture from gender-oriented perspectives.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ANTH 591 - Selected Topics (1-3 Credits)
Topics of special interest. May be taken more than once as topics change.

ANTH 600 - Survey of Linguistics (3 Credits)
Survey of core areas of linguistics and extensions to closely related disciplines. Introduction to the linguistic component of human cognition. Formal description and analysis of the general properties of speech and language, the organization of language in the mind/brain, and cross-linguistic typology and universals.
Cross-listed course: ENGL 680, LING 600

ANTH 699 - Reading and Research (3-6 Credits)

Arabic (ARAB)

ARAB 121 - Elementary Arabic (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language. Offered only in fall.
Carolina Core: GFL

ARAB 122 - Basic Proficiency in Arabic (4 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills. Admission only by successful completion of Arabic 121. Offered only in spring.
Carolina Core: GFL

ARAB 201 - Intermediate Arabic (3 Credits)
Continuation of reading, writing, and speaking Arabic.
Prerequisites: ARAB 122.

ARAB 202 - Intermediate Arabic (3 Credits)
Increased emphasis on reading and writing skills in Arabic.
Prerequisites: ARAB 201.

ARAB 203 - Advanced Arabic I (3 Credits)
Acquisition of advanced grammar and vocabulary. Increased focus on reading, writing, and discussion in Modern Standard Arabic.
Prerequisites: C or better in ARAB 202 or equivalent.

ARAB 204 - Advanced Arabic II (3 Credits)
Continued acquisition of advanced grammar and vocabulary. Increased focus on reading, writing, and discussion in Modern Standard Arabic.
Prerequisites: ARAB 201 or equivalent.

ARAB 280 - Introduction to Modern Arab Culture (3 Credits)
Introduction to Arab culture (literature, music, film, and art) from the 19th century to the present.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ARAB 301 - Advanced Arabic Language I (3 Credits)
This course builds on grammar and vocabulary by reading and listening to authentic Arabic materials. By semester's end, the student will be able to write in detail and comprehend and use advanced vocabulary grammar and syntax in all forms of expression.
Prerequisites: Arabic 202 or equivalent.

ARAB 302 - Advanced Arabic Language II (3 Credits)
This course is a continuation of ARAB 301 and builds on grammar and vocabulary by reading and listening to authentic Arabic materials. By semester's end, the student will be able to write in detail and comprehend and use advanced vocabulary grammar and syntax.
Prerequisites: ARAB 301 or equivalent.

ARAB 310 - Conversational Arabic (3 Credits)
Practical drills in aural-oral skills to develop facility in the spoken language.
Prerequisites: ARAB 202.

ARAB 311 - Colloquial Arabic II (3 Credits)
Continued instruction in colloquial (spoken) Arabic with a focus on oral and aural competencies, discussing aspects of the local culture, and working with media produced in the local variety of Arabic. Course may be repeated as the variety of Arabic may change.
Prerequisites: ARAB 310 or equivalent.

ARAB 320 - Introduction to Modern Arab Literature in Translation (3 Credits)
Introduction to dominant trends and genres in nineteenth and twentieth century Arabic literature.

ARAB 398 - Selected Topics (3 Credits)
Selected literary topics of the Arab world. May be repeated for credit under different titles. Taught in English.

ARAB 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

ARAB 401 - Advanced Arabic I (3 Credits)
Acquisition of advanced grammar and vocabulary. Increased focus on reading, writing, and discussion in Modern Standard Arabic.
Prerequisites: C or better in ARAB 302 or equivalent.

ARAB 402 - Advanced Arabic II (3 Credits)
Continued acquisition of advanced grammar and vocabulary. Increased focus on reading, writing, and discussion in Modern Standard Arabic.
Prerequisites: ARAB 401 or equivalent.

ARAB 615 - Intensive Readings in Arabic (3 Credits)
Intensive reading for non-majors. Graduate students fulfill their foreign-language requirement with successful completion of the course. Undergraduates may take the course as an elective only. Grades S/U for graduates and undergraduates.
Art Education (ARTE)

ARTE 101 - Introduction to Art (3 Credits)
Introduction to art appreciation. Elements and principles of the visual arts, with examples from the history of art.
Carolina Core: AIU

ARTE 201 - Special Topics in Art Education (3 Credits)
Topics selected by the instructor for specialized study. Course content may include a variety of new, contemporary, and emerging art-related issues that are not regularly included in the general art education curriculum. May be repeated.

ARTE 260 - Interdisciplinary Relationships in the Arts (3 Credits)
The study of relationships among visual arts, music, theatre, and dance.
Carolina Core: AIU

ARTE 345 - Art Evaluation (3 Credits)
The language of art is taught through viewing, interpreting, producing, and appreciating art. Historical and contemporary art criticism; methods of teaching art criticism to children and young adults.

ARTE 399 - Independent Study (3-9 Credits)
Graduation with Leadership Distinction: GLD: Research
ARTE 520 - Art for Elementary Schools (3 Credits)
Methods of teaching art to elementary and preschool children. Major emphasis will be given to relevant studio experiences.

ARTE 525 - Elementary Methods for K-12 Art Certification (3 Credits)
Curriculum, methods, and materials for teaching art to elementary and preschool children.

ARTE 525P - Elementary Methods for K-12 Art Certification Practicum (1 Credit)
Experiential practice and learning in elementary schools.
Corequisite: ARTE 525.

ARTE 530 - Art of Children (3 Credits)
A study of prominent theories of the artistic development of children from infancy through adolescence. Students will examine children’s art from various age groups and apply theoretical explanations to these observations.

ARTE 540 - The School Art Program (3 Credits)
An introduction to art education as a profession. The history, curricular development, and current issues are examined. Students practice proven teaching techniques.
Prerequisites: ARTE 520.

ARTE 540P - Practicum in Art Education (1 Credit)
A sequence of supervised practicum experiences in middle and secondary school art education settings. Seminars and group discussions.
Corequisite: ARTE 540.

ARTE 550 - Incorporating New Media in Art Education (3 Credits)
Applications new media such as digital photography, sound, and other interactive hypermedia for the art classroom. Emphasis on integrating art production with art history, criticism, and aesthetics.

ARTE 560 - Secondary Methods for K-12 Art Certification (3 Credits)
Curriculum, methods, and materials for teaching art to secondary school students.
Corequisite: ARTE 560P.

ARTE 560P - Secondary Methods for K-12 Art Certification Practicum (1 Credit)
Experiential curriculum, methods, and materials for teaching secondary schoolchildren.
Corequisite: ARTE 560.

ARTE 565 - Field Experience Seminar (3 Credits)
Corequisite: EDSE 471.

ARTE 571 - Directed Teaching in Art (12 Credits)
Students seeking K-12 certification in art participate in directed teaching in elementary and secondary art programs while being supervised by an art education faculty member. Students are evaluated using a state-mandated assessment tool. Completion of course work in art education, admission to professional program, College of Education, and FBI check are required.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ARTE 595 - Art Education Workshop (1-6 Credits)
A workshop especially for teachers and prospective teachers, featuring practical art experiences and projects for elementary and secondary school. Topic varies by title.

Art History (ARTH)

ARTH 105 - History of Western Art (3 Credits)
The visual arts from Paleolithic times to the Renaissance.
Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 106 - History of Western Art (3 Credits)
The visual arts from the Renaissance to the present.
Carolina Core: AIU

ARTH 107 - History of Asian Art (3 Credits)
Art and culture of India, China, and Japan from prehistory to the present.
Carolina Core: GHS

ARTH 313 - History of Roman Art (3 Credits)
An examination of the development of architecture, painting, and sculpture until the end of the Roman Empire.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 315 - History of Medieval Art (3 Credits)
A survey of architecture, painting, and sculpture in Europe during the Middle Ages.

ARTH 320 - History of Italian Renaissance Art (3 Credits)
The origins and development of Renaissance painting, sculpture, and architecture in Italy during the 15th and 16th centuries.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 321 - History of Northern Renaissance Art (3 Credits)
The arts of Northern Europe during the 15th and 16th centuries with particular emphasis on the developments in the Low Countries, Germany, and France.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 325 - History of Southern Baroque Art (3 Credits)
The art and architecture of Italy and Spain in the 17th century.
Graduation with Leadership Distinction: GLD: Global Learning

ARTH 326 - History of Northern Baroque Art (3 Credits)
The art and architecture of Holland, Flanders, France, England, Germany, and Austria in the 17th century.
Graduation with Leadership Distinction: GLD: Global Learning
ARTH 327 - History of 18th-Century European Art (3 Credits)
A survey of eighteenth-century European painting and sculpture, following the lives and works of major artists, changes in style and taste against the backdrop of a broader cultural and historical context.

ARTH 330 - History of 19th-Century European Art (3 Credits)
A survey of nineteenth-century European painting and sculpture, following the lives and works of major artists, changes in style and taste against the backdrop of a broader cultural and historical context.

ARTH 333 - Art, Anatomy, and Medicine, 1700-Present (3 Credits)
Considers anatomical instruction in artistic training; anatomy and ideas of beauty and morality; role of art in dissemination of anatomical/medical information; why artistic representations of medicine and anatomy feature in popular culture; role of art in medical training; how art has imagined anato-medical improbabilities that are now reality.

ARTH 335 - History of 20th Century Art (3 Credits)
A survey of architecture, painting, and sculpture in the 20th century.

ARTH 337 - History of Modern Architecture (3 Credits)
Architecture from the turn of the century until the present.

ARTH 340 - History of American Art I (3 Credits)
A survey of the history of art in America from colonial times to 1860.

ARTH 341 - History of American Art II (3 Credits)
A survey of art in America from 1860 to the present.

ARTH 342 - Contemporary American Art (3 Credits)
Recent trends in painting and sculpture.

ARTH 345 - History of Asian Art (3 Credits)
A survey of the visual arts of India, China, and Japan from prehistory to the present.

ARTH 346 - African Art (3 Credits)
Sculpture, painting, architecture of Sub-Saharan Africa.

ARTH 350 - History and Theory of Art Criticism (3 Credits)
Art criticism from antiquity to the present.

ARTH 365 - History of Cinema I (3 Credits)
Survey of the international cinema from its inception until 1945.

ARTH 366 - History of Cinema II (3 Credits)
Survey of the international cinema from 1945 to the present.

ARTH 390 - Topics in Art History (3 Credits)
Topic varies by title.

ARTH 399 - Independent Study (3-9 Credits)
Graduation with Leadership Distinction: GLD: Research

ARTH 498 - Independent Study (3 Credits)
Graduation with Leadership Distinction: GLD: Research

ARTH 499 - Independent Study (3 Credits)
Graduation with Leadership Distinction: GLD: Research

ARTH 501 - Methodologies of Art History (3 Credits)
A seminar for art history majors and graduate students in the history and various methodologies of the discipline.

ARTH 503 - Internship in Art History (1-6 Credits)
Supervised experience in the field of art history, including museums, galleries, art dealers and auction houses. Requires a university internship contract and is subject to approval by advisor. May be repeated.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ARTH 511 - Etruscan Art and Archaeology (3 Credits)
Seminar in the art and civilization of the pre-Roman Etruscan peoples of Italy. Slide lectures, discussion sessions, and some examination of archaeological field methods and pottery classification.

ARTH 514 - Topics in Ancient Art (3 Credits)
Topic varies by title.

ARTH 519 - Topics in Medieval Art (3 Credits)
Topic varies by title.

ARTH 520 - History of Renaissance Painting (3 Credits)
An analysis of the paintings and painters of importance during the period of the Renaissance in Europe.

ARTH 521 - History of Renaissance Sculpture (3 Credits)
A survey of the major developments in the art of sculpture associated with the European Renaissance.

ARTH 522 - History of Renaissance Architecture (3 Credits)
European architecture and architectural theory during the 15th and 16th centuries.

ARTH 523 - Florentine Art (3 Credits)
The artistic development of Florence from the age of Giotto to that of Michelangelo as seen in the context of social and cultural developments.

ARTH 524 - Topics in Renaissance Art (3 Credits)
Topic varies by title.

ARTH 525 - History of Baroque Painting (3 Credits)
17th-century European painting.
Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 526 - History of Baroque Sculpture (3 Credits)
17th and 18th-century European sculpture.
Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 527 - History of Baroque Architecture (3 Credits)
The architecture of Europe in the 17th century with special attention to the major architects of Italy, France, Germany, and England. Topics to be included are: the church, the palace, the garden, and city planning.
Prerequisites: ARTH 106 or ARTH 325 or ARTH 326.

ARTH 529 - Topics in 18th-Century Art (3 Credits)
Topic varies by title.
Prerequisites: ARTH 106 or ARTH 327.

ARTH 534 - Topics in 19th-Century Art (3 Credits)
Topic varies by title.
Prerequisites: ARTH 106 or ARTH 330.

ARTH 535 - History of Modern Painting (3 Credits)
A detailed examination of 20th century painting.

ARTH 536 - History of Modern Sculpture (3 Credits)
The development of sculpture in the 19th and 20th centuries with special attention to contemporary tendencies.

ARTH 537 - Topics in Modern Architecture (3 Credits)
Topic varies by title.
Prerequisites: ARTH 106 or ARTH 337.

ARTH 539 - Topics in Modern Art (3 Credits)
Topic varies by title.

ARTH 540 - History of American Painting (3 Credits)
Important aspects of American painting with emphasis on the 19th and 20th centuries.
ARTH 542 - History of American Architecture (3 Credits)
A consideration of the evolution of architecture in America including aspects of town and city planning.

ARTH 543 - The History of American Antiques and Decorative Arts (3 Credits)
A survey of our material culture concentrating upon the evolution of styles.

ARTH 544 - Topics in American Art (3 Credits)
Topic varies by title.

ARTH 545 - Special Topics in Modern Chinese Art (3 Credits)
Topics in modern Chinese art selected for specialized study. May be repeated as content varies by title.

ARTH 546 - Special Topics in Asian Art (3 Credits)
Topics in Asian art selected for specialized study. May be repeated as content varies by title.

ARTH 549 - Topics in Non-Western Art (3 Credits)
Topic varies by title.

ARTH 550 - Trends in Art History (3 Credits)
A critical examination of the development of the discipline of art history and an analysis of its major trends and theoretical positions.

ARTH 551 - Special Topics in Film and Media Studies (3 Credits)
Intensive study of a specific topic in film and media studies. May be repeated as content varies by title.

Prerequisites: FAMS 240.

Cross-listed course: FAMS 511, MART 591

ARTH 557 - History of Printmaking (3 Credits)
Technical, aesthetic, and historical study of the development of printmaking.

ARTH 560 - Museology I (3 Credits)
The history and theory of museums and an introduction to museum practices in the setting of a multi-disciplinary institution. Practical experience provided through the various units of the University Museums.

ARTH 561 - Museology II (3 Credits)
Museum practices emphasizing the conservation, installation, and interpretation of the object in the context of an art museum. Practical experience provided through the Columbia Museum of Art.

ARTH 562 - Art Conservation (3 Credits)
History, theory, practices, ethics, and procedures of modern art conservation. Practical experience provided through the South Carolina Institute of Archaeology and Anthropology.

ARTH 569 - Special Topics in Film and Media Histories (3 Credits)
Intensive study of a specific topic in film and media history. May be repeated as content varies by title.

Prerequisites: FAMS 300.

ARTH 590 - Topics in Art History (3 Credits)
Topic varies by title.

Prerequisites: ARTH 105 or ARTH 106 or any ARTH 300.

ARTH 599 - Independent Study (1-6 Credits)
Independent study for advanced undergraduate majors and graduate students in art history. Approved independent study contract required for enrollment. May be repeated, but no more than 12 credits of Independent Study may be applied to the degree.

### Art Studio (ARTS)

ARTS 102 - Introduction to Visual Arts Computing (3 Credits)
A foundations level course in the use of personal computers and discipline-related software as aids in visual design.

ARTS 103 - Fundamentals of Art (3 Credits)
Introduction to visual thinking and principles of two-dimensional design.

Carolina Core: AIU

ARTS 104 - 3-Dimensional Design I (3 Credits)
Introduction to visual thinking and principles of three-dimensional design.

Carolina Core: AIU

Graduation with Leadership Distinction: GLD: Research

ARTS 107 - Color and Composition (3 Credits)
Color, color theory, and compositional systems.

Prerequisites: ARTS 103.

ARTS 111 - Basic Drawing I (3 Credits)
Introduction to the materials and basic techniques of drawing.

ARTS 210 - Introduction to Painting (4 Credits)
An introductory course in the materials and techniques of painting.

Carolina Core: AIU

ARTS 211 - Beginning Painting II (4 Credits)
Exploration of materials and techniques of painting with emphasis on individual creative expression.

ARTS 215 - Introduction to Printmaking (4 Credits)
An introductory course in printmaking with emphasis on monotype, relief, and intaglio processes.

ARTS 220 - Beginning Ceramics (4 Credits)
An introduction to the materials and techniques of ceramics through hand-building and throwing on the wheel.

ARTS 225 - Introduction to Three-Dimensional Studies (4 Credits)
An introductory course in the concepts, materials, and techniques of three-dimensional media.

Prerequisites: C or better in ARTS 104.

ARTS 230 - Introduction to Drawing (4 Credits)
Building on foundational skills acquired in ARTS 111, this course further develops skills in observation, composition, spatial awareness, drawing technique and critical language.

Prerequisites: C or better in ARTS 111.

ARTS 232 - Figure Structure I (4 Credits)
The structural nature of figure, with emphasis on the translation of form in space onto a two-dimensional surface.

Prerequisites: C or better in ARTS 230.

ARTS 233 - Figure Structure II (4 Credits)
Drawing from the human figure.

Prerequisites: C or better in ARTS 230.

ARTS 235 - Introduction to Fiber Arts (4 Credits)
An introductory course in the materials and processes of fiber arts.

ARTS 241 - Color for Design (4 Credits)
Color theory, systems, and applications in visual communications.

Graduation with Leadership Distinction: GLD: Research
ARTS 245 - Graphic Design I (4 Credits)
The basics of visual communication, including formal issues, fundamental communication principles, image development, and relevant digital applications.
Prerequisites: C or better in ARTS 102.

ARTS 246 - Graphic Design II (4 Credits)
Typography, word/image relationships, relevant digital applications.
Prerequisites: C or better in ARTS 102.

ARTS 255 - Introduction to Jewelry Making (4 Credits)
Introduction to concepts and design of jewelry objects in a variety of metals and other materials.

ARTS 260 - Photography for Non-Majors (3 Credits)
Photographic history, theory, and practice with emphasis on developing a personal vision through the use of digital still cameras.

ARTS 261 - Introduction to Photography (4 Credits)
A thorough grounding in 35mm black and white photography using both digital and traditional output, as well as the aesthetics of the photograph as a personal artistic expression.

ARTS 265 - Illustration (4 Credits)
Basic illustration projects emphasizing principles of visual communication, development of resource material, composition and preparation of sketches, comprehensives, and finished illustrations in a variety of media.
Prerequisites: C or better in ARTS 102 and ARTS 111.

ARTS 266 - Illustration II (4 Credits)
Illustration projects emphasizing principles of visual communication, development of resource material, composition and preparation of sketches, comprehensives, and finished illustrations in a variety of media.
Prerequisites: C or better in ARTS 102 and ARTS 111.

ARTS 310 - Intermediate Painting I (4 Credits)
An exploration of painting as a means of multi-sensory expression through visual experience.

ARTS 311 - Intermediate Painting II (4 Credits)
An exploration of the depiction of space and form in painting with a continued emphasis on materials and techniques combined with individual creative expression.

ARTS 315 - Intermediate Printmaking I: Relief (4 Credits)
Linoleum, woodblock printing, and other relief techniques including the execution of original works in these media.

ARTS 316 - Intermediate Printmaking II: Screen (4 Credits)
Screen printing techniques including the execution of original works in these media.

ARTS 320 - Intermediate Ceramics I (4 Credits)
Concentration on development of throwing skills. Experimentation with clay and glaze chemistry.

ARTS 321 - Intermediate Ceramics II (4 Credits)
Concentration on hand-building skills. Glaze experimentation and ceramic materials will be researched.

ARTS 325 - Intermediate Three-Dimensional Studies I (4 Credits)
Contemporary principles in various three-dimensional media.
Prerequisites: C or better in ARTS 225.

ARTS 326 - Intermediate Three-Dimensional Studies II (4 Credits)
Further study of various three-dimensional media.
Prerequisites: C or better in ARTS 225.

ARTS 330 - Intermediate Drawing I (4 Credits)
Enhancing graphic richness in drawings with intellectual and visual perception as content.
Prerequisites: C or better in ARTS 230.

ARTS 331 - Intermediate Drawing II (4 Credits)
Contemporary cultural stimuli as the content for drawing projects. Emphasis on intellectual and emotive approaches.
Prerequisites: C or better in ARTS 230.

ARTS 335 - Intermediate Fiber Arts I (4 Credits)
Exploration of fiber constructions such as weaving, spinning, and feltmaking.
Prerequisites: C or better ARTS 235.

ARTS 336 - Intermediate Fiber Arts II (4 Credits)
Exploration of fiber surface design techniques such as batik, tie dye, and block printing
Prerequisites: C or better in ARTS 335.

ARTS 345 - Visual and Verbal Interaction (4 Credits)
Intermediate level exploration of type and image in a variety of visual communication problems employing a variety of media. Graphic design majors only. Portfolio Review Acceptance.
Prerequisites: C or better in ARTS 246, and C or better in ARTS 260 or ARTS 261.

ARTS 346 - Series Development and Practice (4 Credits)
Development of complex visual communication projects that involve problem-seeking and problem-solving and result in works with multiple elements. Discussion of current visual communication issues. Graphic design majors only.
Prerequisites: C or better in ARTS 345.

ARTS 347 - Photographics (4 Credits)
Creative use of contemporary photographic equipment and techniques in solving graphic design problems.
Prerequisites: C or better in ARTS 261.

ARTS 355 - Intermediate Jewerlymaking I (4 Credits)
Jewelry fabrication using the centrifugal casting methods.
Prerequisites: C or better in ARTS 255.

ARTS 356 - Intermediate Jewerlymaking II (4 Credits)
Jewelry fabrication using the electroforming method.
Prerequisites: C or better in ARTS 355.

ARTS 360 - Advanced Black & White Photography (4 Credits)
Continuation of black and white photographic techniques introduced in ARTS 261. Introduction to advanced exposure and film development, exhibition quality printing and presentation, medium and large-format cameras, b&w digital output and darkroom experimentation.
Prerequisites: C or better in ARTS 261.

ARTS 361 - Digital Photography (4 Credits)
Exploration of digital imaging techniques including image adjustment and printing methods with an emphasis on color photography.

ARTS 390 - Special Topics in Art Studio (3 Credits)
Investigation and analysis of various thematic concepts, processes, and techniques in a variety of media. Content varies by course title.

ARTS 399 - Independent Study (3-9 Credits)
Graduation with Leadership Distinction: GLD: Research
ARTS 410 - Advanced Painting I (4 Credits)
Advanced development of individual direction in painting the human figure from a live model. Special emphasis on material selection and formal principles of painting as applied toward individual goals.
Prerequisites: C or better in ARTS 310 or ARTS 311.

ARTS 411 - Advanced Painting II (4-6 Credits)
Advanced development of individual direction in painting and skills in the representation of the human figure working observationally from the live model. Special emphasis on material selection and formal principles of painting as applied toward individual goals.
Prerequisites: C or better in ARTS 310 or ARTS 311.

ARTS 415 - Advanced Printmaking I: Intaglio (4 Credits)
Intaglio techniques, such as drypoint, etching and collagraph, including the execution of original works in these media.

ARTS 416 - Advanced Printmaking II: Lithography (4-6 Credits)
Lithography techniques, including the execution of original works in these media.

ARTS 420 - Advanced Ceramics I (4 Credits)
Further development of throwing and hand-building skills. Introduction to kiln firing and continued glaze and clay experimentation.
Prerequisites: C or better in ARTS 320 or ARTS 321.

ARTS 421 - Advanced Ceramics II (4-6 Credits)
Prerequisites: C or better in ARTS 420.

ARTS 425 - Advanced Three-Dimensional Studies I (4 Credits)
The development of fabrication skills and creative expression in various three-dimensional media.
Prerequisites: C or better in ARTS 325 or ARTS 326.

ARTS 426 - Advanced Three-Dimensional Studies II (4-6 Credits)
Further development of fabrication skills and creative expression in various three-dimensional media.
Prerequisites: C or better in ARTS 325 or ARTS 326.

ARTS 430 - Advanced Drawing I (4 Credits)
Development of a thematic approach to drawing in a series of individual and group generated artworks.
Prerequisites: C or better in ARTS 330 or ARTS 331.

ARTS 431 - Advanced Drawing II (4-6 Credits)
Development of highly individualized content in a series of drawings.
Prerequisites: C or better in ARTS 430.

ARTS 435 - Advanced Fiber Arts I (4 Credits)
Advanced study of materials and techniques of fiber arts with emphasis on individual creative expression.
Prerequisites: C or better in ARTS 336.

ARTS 436 - Advanced Fiber Arts II (4 Credits)
Advanced study of materials and techniques of fiber arts with emphasis on individual creative expression.
Prerequisites: C or better in ARTS 435.

ARTS 445 - Time and Sequence (4 Credits)
Advanced visual communication projects involving time and sequencing with both visual and verbal elements using a variety of media.
Prerequisites: C or better in ARTS 346.

ARTS 446 - Structures (4 Credits)
Advanced exploration of visual structures, both 2D and 3D, in visual communication problems.
Prerequisites: C or better in ARTS 445.

ARTS 447 - Senior Project I (4 Credits)
Individual final project in graphic design.
Prerequisites: C or better in ARTS 445.

Graduation with Leadership Distinction: GLD: Research

ARTS 448 - Senior Graphic Design Portfolio Preparation (4-6 Credits)
Advanced studies in professional presentations of visual communication projects, professional interviews, and graphic design business topics.
Prerequisites: C or better in ARTS 446.

ARTS 449 - Graphic Design Practicum (4 Credits)
Practical design experience for students through design or publicity problems in non profit organizations.
Prerequisites: C or better in ARTS 445 or ARTS 446.

ARTS 450 - Intermedia Studio I (4 Credits)
Advanced intermedia; formal and conceptual problems associated with combining multiple forms of imaging processes.

ARTS 451 - Intermedia Studio II (4 Credits)
Advanced intermedia; creation of portfolio work combining multiple forms of imaging processes.

ARTS 455 - Advanced Jewelrymaking I (4 Credits)
Advanced problems and individual investigation in jewelrymaking techniques.
Prerequisites: C or better in ARTS 356.

ARTS 456 - Advanced Jewelrymaking II (4 Credits)
Advanced problems and individual investigation in jewelrymaking techniques.
Prerequisites: C or better in ARTS 455.

ARTS 460 - Photography Portfolio (4 Credits)
Advanced techniques and career practices in photography. The development of personal vision through the production of a fine arts portfolio. Students may work with any photographic process (digital or analog) towards the completion of a cohesive body of work.
Prerequisites: C or better in ARTS 360 or ARTS 361.

ARTS 461 - Photography Exhibition (4-6 Credits)
Advanced concepts in photography. The development of personal vision culminating in a collaborative exhibition. Students may work with any photographic process (analog or digital).
Prerequisites: C or better in ARTS 360 or ARTS 361.

ARTS 465 - Advanced Illustration (4 Credits)
Projects in advertising and editorial illustration. Further development of style, media, and technique.
Prerequisites: C or better in ARTS 265.

ARTS 466 - Advanced Illustration II (4 Credits)
Projects in commercial illustration. Further development of style, media, and technique with emphasis in development of commercial portfolio.
Prerequisites: C or better in ARTS 265 or ARTS 266.

ARTS 498 - Independent Study (3-9 Credits)
Graduation with Leadership Distinction: GLD: Research
ARTS 499 - Independent Study (3-9 Credits)
Graduation with Leadership Distinction: GLD: Research

ARTS 500 - Visual Meaning (4 Credits)
The analysis, structuring, and production of individual works of art using
traditional and non-traditional approaches.

ARTS 501 - Art Business (3 Credits)
Business practices for the studio artist. Contracts, portfolio preparation,
promotion, alternate professions, museums, galleries, copyright, and
shipping will be discussed.

ARTS 510 - Painting I (6 Credits)
BFA Painting Capstone course stressing focus on further development of
individual approaches to painting culminating in a cohesive body of work
and a written thesis defense.
Prerequisites: ARTS 210, ARTS 211, ARTS 310, and ARTS 311.

ARTS 511 - Painting II (6 Credits)
Further development of individual approaches to painting culminating in a BFA Senior Thesis
Exhibition and defense.
Prerequisites: ARTS 510.

ARTS 512 - Introduction to Watercolor (3 Credits)
Introduction to traditional and experimental transparent watercolor
technique. Encompasses field work at off campus locations.

ARTS 513 - Advanced Watercolor (3 Credits)
Advanced study of watercolor and water-based media with emphasis on
individual creative expression. Encompasses field work at off campus
locations.

ARTS 514 - Workshop: Painting (4 Credits)
Advanced study in various painting problems, content varies by title.

ARTS 515 - Printmaking I (3 Credits)
Further development of individual approaches to printmaking.
Prerequisites: ARTS 416.

ARTS 516 - Capstone Printmaking I: Professional Practices (3-6
Credits)
Professional development practices including preparing a portfolio and
oral presentation of work, researching career options, and preparing
applications for exhibition and funding opportunities.
Prerequisites: ARTS 215 and one ARTS 300 - ARTS 400 level print course.

ARTS 517 - Capstone Printmaking II: Exhibition (3-6 Credits)
Preparing for an exhibition.
Prerequisites: ARTS 215 and one ARTS 300 - ARTS 400 level print course.

ARTS 519 - Workshop: Printmaking (3 Credits)
Advanced investigation and analysis of various printmaking techniques.
Topic varies by title.

ARTS 520 - Ceramics I (6 Credits)
Further development of a personal approach to the ceramic process,
supported by an investigation of ceramic history.
Prerequisites: ARTS 421.

ARTS 521 - Ceramics II (6 Credits)
Further development of a personal approach to the ceramic process,
supported by an investigation of ceramic history.
Prerequisites: ARTS 520.

ARTS 524 - Workshop: Ceramics (3 Credits)
Advanced investigation and analysis of problems and methods in
ceramics. Topics vary by title.

ARTS 525 - Three-Dimensional Studies I (3-6 Credits)
Personal concepts and expressions in various three-dimensional media.
Prerequisites: C or Better in ARTS 425 or ARTS 426.

ARTS 526 - Three-Dimensional Studies II (3-6 Credits)
Personal concepts and expressions in various three-dimensional media.
Prerequisites: C or better in ARTS 425 or ARTS 426.

ARTS 529 - Workshop: Three-Dimensional Studies (3 Credits)
Investigation and analysis of various three-dimensional concepts,
processes, and techniques. Content varies by title.

ARTS 530 - Drawing Capstone I (3-6 Credits)
Further development of individual approaches to drawing with emphasis
on intellectual and visual perception as content.
Prerequisites: ARTS 431.

ARTS 531 - Drawing Capstone II (6 Credits)
Further development of individual drawing with emphasis on intellectual
and emotive approaches.
Prerequisites: ARTS 530.

ARTS 532 - Advanced Life Drawing (3 Credits)
Human anatomy and instruction in drawing and painting the model from
life in a variety of media.
Prerequisites: ARTS 232 or ARTS 233.

ARTS 535 - Fiber Arts I (3 Credits)
Advanced study in the processes and materials of fiber arts.
Prerequisites: ARTS 436.

ARTS 536 - Fiber Arts II (3 Credits)
Advanced study in the processes and materials of fiber arts.
Prerequisites: ARTS 535.

ARTS 537 - Papermaking (3 Credits)
The art and techniques of handmade paper.

ARTS 539 - Workshop: Fiber Arts (3 Credits)
Advanced study in various technical aspects of fiber arts. Topic varies by
title.

ARTS 545 - Internship in Graphic Design (4 Credits)
Work experience at a visual communication place of business.
Prerequisites: C or better in ARTS 346.

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ARTS 546 - Graphic Design II (3 Credits)
Advanced individual projects in graphic design.
Prerequisites: ARTS 545.

ARTS 555 - Jewelrymaking I (4 Credits)
The development of individual directions in jewelrymaking.
Prerequisites: C or better in ARTS 456.

ARTS 556 - Jewelrymaking II (3 Credits)
The development of individual directions in jewelrymaking.
Prerequisites: ARTS 555.

ARTS 558 - Crafts (3 Credits)
Contemporary applications of traditional craft media, emphasizing the
design and conceptual development of works of art.

ARTS 559 - Workshop: Jewelrymaking (3 Credits)
Advanced study in various technical aspects of jewelrymaking. Topic
varies by title.
ARTS 560 - Photography Thesis: Portfolio (6 Credits)
Further development of individual approaches to photography.
Prerequisites: ARTS 460.

ARTS 561 - Photography Thesis: Exhibition (6 Credits)
Further development of individual approaches to photography.
Prerequisites: ARTS 461.

ARTS 564 - Workshop: Photography (4 Credits)
Advanced investigation and analysis of problems in photography. Topic varies by title.

ARTS 570 - Visual Arts Computing (3 Credits)
Advanced visual arts computing techniques on using software such as Photoshop, Studio Pro, and Netscape.
Prerequisites: ARTS 102.

ARTS 590 - Video Art: Theory and Practice (3 Credits)
Television as a medium; small format video systems are used in the creation of individual projects.

ARTS 595 - Independent Study (3 Credits)
Independent study for advanced undergraduate majors and graduate students in art studio. Approved independent study contract required for enrollment.

Astronomy (ASTR)

ASTR 101 - Introduction to Astronomy (4 Credits)
An introduction to the solar system and universe accomplished with interactive lectures, demonstrations, and laboratory experience. Designed primarily for the non-science major.
Carolina Core: SCI

ASTR 201 - Introduction to Astronomy II: The Dark Universe (3 Credits)
Astronomical topics including stellar death, black holes, dark matter, dark energy and cosmology. Astronomical techniques and application of the scientific method in astronomy.
Prerequisites: ASTR 101 or SCHC 115.
Carolina Core: SCI

ASTR 320 - Introduction to Radio Astronomy (3 Credits)
Nature of the sun, planets; galactic and extragalactic sources at radio wavelengths; quasars; techniques, detectors, and telescopes.
Prerequisites: ASTR 211, MATH 115 or equivalent, and PHYS 202, PHYS 212.

ASTR 340 - Introduction to Relativistic Astrophysics (3 Credits)
Final states of stellar evolution; white dwarfs, neutron stars, black holes. Cosmology.
Prerequisites: ASTR 211, MATH 115 or equivalent, and PHYS 202, PHYS 212.
Cross-listed course: PHYS 340

ASTR 499 - Undergraduate Research (3 Credits)
Introduction to and application of the methods of research. A written report on work accomplished is required at the end of each semester.
Graduation with Leadership Distinction: GLD: Research

ASTR 533 - Advanced Observational Astronomy (1-3 Credits)
Development of a combination of observational techniques and facility at reduction of data. A maximum of eight hours per week of observation, data reduction, and consultation. Offered each semester by arrangement with the department.

ASTR 534 - Advanced Observational Astronomy (1-3 Credits)
A continuation of ASTR 533. Up to eight hours per week of observation, data reduction, and consultation.

ASTR 599 - Topics in Astronomy (1-3 Credits)
Readings and research on selected topics in astronomy. Course content varies and will be announced in the schedule of classes by title.

Athletic Training (ATEP)

ATEP 263 - Introduction to Athletic Training (3 Credits)
Introduction to the historical evolution of athletic training with an emphasis on program development including basic athletic training principles/skills associated with common sports injuries/illnesses.

ATEP 266 - Care and Prevention of Injuries (3 Credits)
Knowledge, skills, and values associated with prevention, care, treatment, and rehabilitation of common injuries/illnesses.

ATEP 267 - Clinical Foundations in Athletic Training (3 Credits)
Basic knowledge and skill in athletic injury prevention, care, and recognition; medical terminology; fulfillment of athletic training clinical proficiencies.

ATEP 292 - Athletic Training Clinical Experience I (2 Credits)
Supervised clinical experience in an athletic training setting. Integrates cognitive learning in conjunction with psychomotor skill development and assessment. Restricted to athletic training majors. Special permission required by department. Accepted into ATEP.
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ATEP 293 - Athletic Training Clinical Experience II (2 Credits)
Supervised clinical experience in an athletic training setting. Integrates cognitive learning in conjunction with psychomotor skill development and assessment. Restricted to athletic training majors. Special permission required by department.
Prerequisites: ATEP 348, ATEP 348L, ATEP 292.
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ATEP 300 - First Aid and CPR (2 Credits)
Knowledge and skills necessary to meet the needs of situations when emergency care is critical. Includes American Red Cross CPR/AED and First Aid certification. Encompasses skills for adult, child, and infant CPR/AED, breathing emergencies, and first aid procedures for emergency situations.
Corequisite: ATEP 300L.

ATEP 300L - First Aid and CPR Lab (1 Credit)
Skill development to meet guidelines for certification. Skills include AED, adult, child, and infant CPR, breathing emergencies, and first aid.
Corequisite: ATEP 300.

ATEP 310 - Emergency Medical Response (2 Credits)
Knowledge acquisition necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. Appropriate decisions about the care to provide in a medical emergency. Understanding the role of an EMR as a crucial link in the emergency medical services (EMS) system.
Corequisite: ATEP 310L.
ATEP 310L - Emergency Medical Responder Lab (1 Credit)
Clinical applications necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. Appropriate decisions about the care to provide in a medical emergency. Skills an EMR needs to act as a crucial link in the emergency medical services (EMS) system.
Corequisite: ATEP 310.

ATEP 348 - Evaluation and Assessment of Lower Extremity Injuries (3 Credits)
Knowledge and skills for orthopedic/physical assessment of common injuries to the lower body; study of the lower extremities as they relate to the prevention, recognition, evaluation and assessment, immediate care, and treatment; rehabilitation and reconditioning of injuries and illnesses to athletes and others engaged in physical activity.
Prerequisites: ATEP 266, EXSC 275.
Corequisite: ATEP 348L.

ATEP 348L - Evaluation and Assessment of Lower Extremity Injuries Lab (1 Credit)
Laboratory setting to enhance knowledge and skills for orthopedic/physical assessment of common injuries to the lower extremities.
Prerequisites: ATEP 266.
Corequisite: ATEP 348.

ATEP 349 - Evaluation and Assessment of Head, Neck, Spine & Abdomen Injuries (3 Credits)
Knowledge and skills for orthopedic/physical assessment of common injuries to the cervical spine, head, face, abdomen, and thorax. Study of the cervical spine, head, face, abdomen and thorax as they related to the prevention, recognition, evaluation and assessment; immediate care, treatment, rehabilitation, and reconditioning of injuries and illnesses to athletes and others engaged in physical activity.
Prerequisites: ATEP 292, ATEP 348, ATEP 348L.
Corequisite: ATEP 349L.

ATEP 349L - Evaluation and Assessment of Head, Neck, Spine & Abdomen Injuries Lab (1 Credit)
Skill development for orthopedic/physical assessment of common injuries to the cervical spine, head, face, abdomen, and thorax.
Prerequisites: ATEP 348, ATEP 348L.
Corequisite: ATEP 349.

ATEP 350 - Evaluation and Assessment of Upper Extremity Injuries (3 Credits)
Prevention, recognition, orthopedic assessment of common injuries to the upper body; immediate care, treatment, and rehabilitation of injuries and illnesses to athletes.
Prerequisites: ATEP 349, ATEP 349L.
Corequisite: ATEP 350L.

ATEP 350L - Evaluation and Assessment of Upper Extremity Injuries Lab (1 Credit)
Prevention, recognition, orthopedic assessment of common injuries to the upper body; immediate care, treatment, and rehabilitation of injuries and illnesses to athletes.
Prerequisites: ATEP 349, ATEP 349L.
Corequisite: ATEP 350L.

ATEP 365 - Pharmacology and Drug Education in Athletic Trainers (2 Credits)
Knowledge, skills, and values associated with athletic trainer's pharmacological applications in the treatment of injuries/illnesses, including use of alcohol and illicit drugs.
Prerequisites: ATEP 293, ATEP 348, ATEP 348L.

ATEP 366 - Therapeutic Modalities (3 Credits)
Knowledge and techniques needed to plan, operate, document, and evaluate therapeutic modalities used in treatment of injuries/illnesses.
Prerequisites: ATEP 293, ATEP 349, ATEP 349L.
Corequisite: ATEP 366.

ATEP 366L - Therapeutic Modalities Lab (1 Credit)
Integrates cognitive learning in conjunction with psychomotor skill development and assessment on the application of modalities in laboratory situations.
Corequisite: ATEP 366.

ATEP 392 - Athletic Training Clinical Experience III (2 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 293, ATEP 349, ATEP 349L.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 393 - Athletic Training Clinical Experience IV (2 Credits)
Supervised clinical experience for athletic training students. Integrates cognitive learning in conjunction with psychomotor skill development and assessment.
Prerequisites: ATEP 365, ATEP 366, ATEP 366L, ATEP 392.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ATEP 466 - Therapeutic Exercise (3 Credits)
Knowledge and techniques needed to plan, operate, document, and evaluate therapeutic exercise programs for the rehabilitation and reconditioning of injured patients.
Prerequisites: EXSC 223, EXSC 224, ATEP 365, ATEP 366, ATEP 366L, ATEP 392.
Corequisite: ATEP 466L.

ATEP 466L - Therapeutic Exercise Lab (1 Credit)
Techniques and skills of therapeutic exercise used in the development of rehabilitation programs for various injuries.
Corequisite: ATEP 466.
ATEP 492 - Athletic Training Clinical Experience V (2 Credits)
Supervised clinical experience for athletic training students. Integrates
cognitive learning in conjunction with psychomotor skill development and
assessment.
Prerequisites: ATEP 393, ATEP 466, ATEP 466L, ATEP 497.

Graduation with Leadership Distinction: GLD: Professional and Civic
Engagement Internships

ATEP 493 - Athletic Training Clinical Experience VI (2 Credits)
Supervised clinical experience for athletic training students. Integrates
cognitive learning in conjunction with psychomotor skill development and
assessment.
Prerequisites: ATEP 492, ATEP 496.

ATEP 494 - Athletic Training Senior Seminar (3 Credits)
Preparation for the BOC examination for athletic trainers; advanced skills
and integration of athletic training principles and development of athletic
training research; professional research and current literature pertaining
to relevant topics in athletic training.
Prerequisites: ATEP 492.

Graduation with Leadership Distinction: GLD: Professional and Civic
Engagement Internships, GLD: Research

ATEP 496 - Organization and Administration of Athletic Training (3
Credits)
Management and operation of athletic training programs.
Prerequisites: ATEP 393, ATEP 466, ATEP 466L, ATEP 497.

ATEP 497 - General Medical Concerns for Athletic Trainers (3 Credits)
Knowledge and skills to recognize, treat, and refer general medical
conditions and disabilities.
Prerequisites: ATEP 365, ATEP 366, ATEP 366L, ATEP 392.

Biology (BIOL)

BIOL 101 - Biological Principles I (3 Credits)
Introductory survey of macromolecules, cell structure and function,
genetics, and molecular biology.
Carolina Core: SCI

BIOL 101A - Biological Principles I (3 Credits)
Introductory survey of macromolecules, cell structure and function,
genetics, and molecular biology. Three lecture hours per week. Restricted
to students who have credit for BIOL 101L but lack the lecture.
Prerequisites: BIOL 101L.

BIOL 101L - Biological Principles I Laboratory (1 Credit)
(Recommended concurrent with BIOL 101). Experimental examination of
basic principles of cell biology, genetics and metabolism. Three hours per
week.
Carolina Core: SCI

BIOL 102 - Biological Principles II (3 Credits)
Introductory survey of plant and animal development, physiology, ecology,
and evolution. Three lecture hours per week.
Prerequisites: C or better in BIOL 101.
Corequisite: BIOL 102L.
Carolina Core: SCI

BIOL 102A - Biological Principles II (3 Credits)
Introductory survey of plant and animal development, physiology, ecology,
and evolution. Three lecture hours per week. Restricted to students who
have credit for BIOL 102L but lack the lecture.
Prerequisites: BIOL 102L.

BIOL 102L - Biological Principles II Laboratory (1 Credit)
Experimental examination of structure and function of plant and animal
systems, biodiversity, ecology. BIOL 101, 102, 101L and 102L must be
completed prior to enrolling in 300-level or above Biology courses.
Prerequisites: C or better in BIOL 101 and BIOL 101L; recommended
concurrent with BIOL 102.

Carolina Core: SCI

BIOL 110 - General Biology (4 Credits)
Basic biological concepts and issues for non-biology majors. Credit
may not be given for both this course and BIOL 120. Three lecture, two
laboratory hours per week.
Carolina Core: SCI

BIOL 110A - General Biology (Audio-Tutorial) (1 Credit)
Addendum to BIOL 110.

BIOL 120 - Human Biology (3 Credits)
Fundamental principles of human biology. Credit may not be given for
both BIOL 110 and BIOL 120. Three lecture hours per week. Not for major
credit.
Carolina Core: SCI

BIOL 120L - Laboratory in Human Biology (1 Credit)
Exercises dealing with basic concepts of human biology. Not for major
credit.
Prerequisite or Corequisite: BIOL 120.

Carolina Core: SCI

BIOL 200 - Plant Science (3 Credits)
An introduction to plant science for the non-major. This course does not
carry major credit, and is not designed as a
Prerequisites: for other biology courses. Plant development, physiology,
genetics, evolution, and ecology will be considered. Three lecture hours
per week.

BIOL 200L - Plant Science Laboratory (1 Credit)
Laboratory exercises, demonstrations, and audio-visual supplements to
BIOL 200. Not for major credit. Two hours per week.
Prerequisite or Corequisite: BIOL 200.

BIOL 206 - Genetics and Society (3 Credits)
(Designed for non-major students.) Genetic principles, emphasizing
human heredity. Relevance of recent advances in genetics. Three lecture
hours per week.
Carolina Core: SCI

BIOL 208 - Our Hungry World from Malthus to McDonalds (3 Credits)
Scientific and social issues concerning the interrelationship of culture
and agricultural biodiversity and technology, climate change,
resources management, food security, and human health.
Carolina Core: SCI, VSR

BIOL 220 - Elementary Life Science (4 Credits)
This course will ensure that elementary education majors will understand
the fundamental concepts of Biology. Cannot be used for biology major
credit.
BIOL 232 - Anatomy (3 Credits)

BIOL 232L - Anatomy Laboratory (1 Credit)
The principles of anatomy as demonstrated by microscopic studies and animal dissection. Three hours per week.
Corequisite: BIOL 232.

BIOL 240 - Applied Human Physiology (3 Credits)

BIOL 242 - Human Physiology (4 Credits)
Functional biology of organ systems in the maintenance of the whole organism; homeostatic relationships. Not available for biology major credit. Three lecture and three laboratory hours per week.
Prerequisites: BIOL 243.

BIOL 244 - Human Anatomy and Physiology I (3 Credits)
Functional anatomy and physiology of the human body, including the integumentary, skeletal, muscular, and nervous systems. Not available for biology major credit. Three lecture hours per week.
Carolina Core: SCI

BIOL 244L - Human Anatomy and Physiology Laboratory (1 Credit)
The principles of anatomy and physiology as demonstrated by microscopic studies, animal dissection, and physiological experiments. One three-hour laboratory per week.
Prerequisite or Corequisite: BIOL 243.

BIOL 244 - Human Anatomy and Physiology II (3 Credits)
Functional anatomy and physiology of the human body, including the cardiovascular, endocrine, excretory, reproductive, digestive, and respiratory systems. Not available for biology major credit. Three lecture hours per week.
Carolina Core: SCI

BIOL 244L - Human Anatomy and Physiology Laboratory (1 Credit)
A continuation of BIOL 243L. One three-hour laboratory per week.
Corequisite: BIOL 244.

BIOL 250 - Microbiology (3 Credits)
An introduction to bacteria and viruses, emphasizing structure, metabolism, and pathogenesis. Discussion of infectious diseases, antigen-antibody relationships, and anti-microbial agents in chemotherapy. Not available for biology major credit. Three lecture hours per week.
Prerequisites: College-level Biology and Chemistry.
Corequisite: BIOL 250L.

BIOL 250L - Microbiology Laboratory (1 Credit)
Not available for biology major credit. Three hours per week.
Prerequisite or Corequisite: BIOL 250.

BIOL 260 - Physiology (3 Credits)
Physiology of human systems especially susceptible to disturbance: immunobiology, circulation, excretion, metabolism, endocrinology, and muscle physiology. Not for biology major credit. Intended for pharmacy students.
Prerequisites: BIOL 102.

BIOL 270 - Introduction to Environmental Biology (3 Credits)
Basic ecological principles and the impacts of human population growth and technology. Not for major credit.
Carolina Core: SCI

BIOL 270L - Introduction to Environmental Biology Laboratory (1 Credit)
Demonstrations, data analyses, discussions, and films relating to human ecology, resource use, and environmental impact. Not for major credit. Two hours per week.
Prerequisite or Corequisite: BIOL 270.

Carolina Core: SCI

BIOL 301 - Ecology and Evolution (3 Credits)
Concepts of evolution, populations, and population interactions; communities and ecosystems. Three lecture hours per week.
Prerequisites: BIOL 102 or MSCI 311.

Graduation with Leadership Distinction: GLD: Research

BIOL 301L - Ecology and Evolution Laboratory (1 Credit)
Experiments, exercises, and demonstrations. Three hours per week.
Prerequisite or Corequisite: BIOL 301.

BIOL 302 - Cell and Molecular Biology (3 Credits)
Principles of eukaryotic cell structure, molecular organization, and physiology. Genome organization and expression. Cell growth, division, and cell-cell interactions. Three lecture hours per week.
Prerequisites: BIOL 102 or MSCI 311.

Prerequisite or Corequisite: CHEM 333.

Graduation with Leadership Distinction: GLD: Research

BIOL 302L - Cell and Molecular Biology Laboratory (1 Credit)
Experiments, exercises, and demonstrations. Three hours per week.
Prerequisite or Corequisite: BIOL 302.

BIOL 303 - Fundamental Genetics (3 Credits)
Basic principles of transmission and molecular genetics; quantitative inheritance; recombination; biochemical aspects of gene function and regulation; developmental genetics and population genetics. Three lecture hours per week.
Prerequisites: BIOL 102 or MSCI 311.

BIOL 351 - Introduction to Animal Science (3 Credits)
Exploration of current careers in the animal industry including a brief overview of the sciences involved in animal production such as genetics and selection, behavior, physiology, reproduction, and nutrition of cattle (beef and dairy), horses, swine, sheep, poultry, and others.
Prerequisites: C or better in BIOL 102.

BIOL 398 - Laboratory Teaching Experience (1 Credit)
Participation in preparation and teaching of undergraduate biological sciences laboratories.
Experiential Learning: Experiential Learning Opportunity
BIOL 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

BIOL 405 - Cellular and Molecular Neurobiology (3 Credits)
Cellular and molecular mechanisms underlying the development and functions of the nervous system, such as nervous system patterning, neuronal differentiation/migration, formation of neuronal projections, development of synapses, apoptosis, refinement of neuronal circuits, and how cells and neurons respond to signals from the environment.

Prerequisites: BIOL 302.

BIOL 415 - Comparative Vertebrate Anatomy (4 Credits)
Phylogenetic and comparative aspects of anatomy, reproduction, and embryology of the vertebrates. Three lecture hours and one three-hour laboratory period per week.

Prerequisites: BIOL 102 or MSCI 311.

BIOL 420 - Survey of the Plant Kingdom (3 Credits)
Phylogenetic survey of the major plant divisions; consideration of the structure and development of flowering plants.

Prerequisites: BIOL 301.

BIOL 420L - Survey of the Plant Kingdom Laboratory (1 Credit)
Three hours per week.

Prerequisite or Corequisite: BIOL 420.

BIOL 423 - Medicinal Botany (3 Credits)
A survey of plants affecting human health and how they are used historically and in modern times, with emphasis on the biologically active constituents.

Prerequisites: C or better in BIOL 301 and BIOL 302.

BIOL 425 - Plant Form and Function (3 Credits)
Basic introduction to plants, including cellular biology, energetics, structure-function relationships, development, nutrition, and diversity.

Prerequisites: BIOL 302.

BIOL 425L - Plant Form and Function Laboratory (1 Credit)
Illustration of principles of introductory botany and plant physiology using experiments, exercises, and demonstrations. Three laboratory hours per week.

Prerequisite or Corequisite: BIOL 425.

BIOL 450 - Principles of Biological Oceanography (3 Credits)
Principles and methods of measuring production in the sea. Emphasis on the ocean's role in the global carbon budget. Three lecture hours per week. Scheduled field trips are required.

Prerequisites: MSCI 311, BIOL 301.

Cross-listed course: MSCI 450

BIOL 460 - Advanced Human Physiology (3 Credits)
Functional physiology of human organ systems.

Prerequisites: BIOL 302 or MSCI 311 with a grade of C or better.

BIOL 460L - Advanced Human Physiology Laboratory (1 Credit)
Experiments on organ system functions using different animal models.

Prerequisites: .

Prerequisite or Corequisite: BIOL 460 (with a grade of D or better if used as a

BIOL 461 - Advanced Human Anatomy (3 Credits)
Structure, function, and development of human anatomy.

Prerequisites: Any two of BIOL 301, BIOL 302, or BIOL 303 with a grade of C or better.

BIOL 461L - Advanced Human Anatomy Laboratory (1 Credit)
Practical exercises in structure, function, and development of anatomy using digital and animal models.

Prerequisites: .

Prerequisite or Corequisite: BIOL 461 (with a grade of D or better if used as a

BIOL 462 - Advanced Microbiology (3 Credits)
The taxonomy, morphology, metabolism, genetics, and ecology of microorganisms.

Prerequisites: C or better in BIOL 302.

BIOL 462L - Advanced Microbiology Laboratory (1 Credit)
Practical exercises with the taxonomy, morphology, metabolism, genetics, and ecology of microorganisms.

Prerequisite or Corequisite: D or better in BIOL 462.

BIOL 465 - Domestic Animal Nutrition (3 Credits)
Elements of nutrition and animal feeding in veterinary practice. Three lecture hours per week.

Prerequisites: BIOL 302.

BIOL 497 - Undergraduate Seminar in Biological Sciences (1 Credit)
Student seminars and a survey of research in the fields of Biological Sciences.

Prerequisites: BIOL 301, BIOL 302, and BIOL 303, or Instructor’s Permission

BIOL 498 - Biological Research: An Introduction (4 Credits)
Methodologies of biological research with emphasis on hypothesis formation, research design, and data collection, and current issues in biology. Two lecture and six laboratory hours per week.

Prerequisites: one 300-level or higher biological laboratory.

Graduation with Leadership Distinction: GLD: Research

BIOL 502 - Environmental Microbiology (3 Credits)
An overview of the microbial world including a survey of the distribution, functioning, and diversity of microorganisms in natural systems. Discusses the crucial roles that microorganisms play in ecosystem function, biogeochemical cycles, and environmental quality.

Prerequisites: MSCI 102 or BIOL 102, CHEM 112.

Cross-listed course: MSCI 503

BIOL 505 - Developmental Biology (3 Credits)
An introduction to the descriptive and experimental embryology of animals. Living and preserved specimens will be used to demonstrate the basic processes of embryogenesis. Three lecture hours per week.

Prerequisites: or Corequisite: BIOL 302.

BIOL 505L - Developmental Biology Laboratory I (1 Credit)
Descriptive and experimental exercises related to embryology. One three-hour laboratory per week.

Corequisite: BIOL 505.
BIOL 506 - Developmental Biology II (3 Credits)
Molecular aspects of development from gamete formation through tissue and organ differentiation in plants and animals. Three lecture hours per week.
Prerequisites: BIOL 505.

BIOL 506L - Developmental Biology Laboratory II (1 Credit)
A series of experimentally oriented laboratory exercises will be performed. One three-hour laboratory per week.
Prerequisite or Corequisite: BIOL 506.

BIOL 510 - Invertebrate Zoology (4 Credits)
Phylogenetic and comparative aspects of anatomy, physiology, reproduction, and embryology of the invertebrates.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: MSCI 510
Graduation with Leadership Distinction: GLD: Research

BIOL 523 - Plant Development (3 Credits)
Descriptive and molecular examination of the processes and mechanisms used by plants in organogenesis, differentiation, and morphogenesis. Three lecture hours per week.
Prerequisites: BIOL 302 and BIOL 303.

BIOL 523L - Plant Developmental Laboratory (1 Credit)
Experiments utilizing a genetic approach to the study of plant development. Three laboratory hours per week.
Corequisite: BIOL 523.

BIOL 524 - Mycology (4 Credits)
Taxonomy and morphology of fungi; cultivation, life histories, and economic importance; all classes and major orders considered. Three lecture hours per week.
Prerequisites: BIOL 301.

BIOL 525 - Marine Plants (4 Credits)
Diversity, distribution, physiology, ecology, evolution, and economic importance of marine algal, seagrass, and mangrove communities. Three lecture and three laboratory hours per week. Scheduled field trips are required.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: MSCI 525

BIOL 526 - The Fall Flora (4 Credits)
Two lecture and four laboratory hours per week.
Prerequisites: BIOL 301.

BIOL 527 - The Spring Flora (4 Credits)
Two lecture and four laboratory hours per week.
Prerequisites: BIOL 301.

BIOL 528 - The Summer Flora (4 Credits)
Two lecture and four laboratory hours per week.
Prerequisites: BIOL 301.

BIOL 530 - Histology (4 Credits)
An introduction to the tissues that make up the human body. The microscopic anatomy of tissues is examined and discussed in terms of function and physiology. Three lecture hours and four laboratory hours per week.

BIOL 531 - Parasitology (4 Credits)
Parasites of biological, economic, and public health importance. Three lecture and three laboratory hours per week.
Prerequisites: 300 level Biology course or equivalent.

Cross-listed course: ENHS 661, EPID 661

BIOL 534 - Animal Behavior (3 Credits)
A comparative survey of behavior patterns of animals from protists to humans and the physiological mechanisms underlying behavior.
Prerequisites: BIOL 301 or MSCI 311.

BIOL 534L - Animal Behavior Laboratory (1 Credit)
Observational and experimental methods used in classifying animal behavior patterns and in determining underlying control mechanisms. One three-hour laboratory per week.
Prerequisite or Corequisite: BIOL 534.

BIOL 535 - Fishery Management (3 Credits)
Management and conservation of aquatic and marine resources, with emphasis on fisheries. Data procurement and analysis; commercial and recreational fisheries; sociological, political, legal, and environmental factors that affect fishery management; and fish biodiversity.
Prerequisites: BIOL 301.

Cross-listed course: MSCI 535

BIOL 536 - Ichthyology (4 Credits)
Phylogeny, morphology, behavior, and ecology of fishes. Three lecture and 3 laboratory hours plus three field trips to be arranged.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: MSCI 536
Graduation with Leadership Distinction: GLD: Research

BIOL 537 - Aquaculture (3 Credits)
Introduction to the practical and scientific aspects of the commercial culture of freshwater and marine organisms. Three lecture hours per week. One all-day field trip required.
Prerequisites: BIOL 301 or MSCI 311.

BIOL 538 - Behavior of Marine Organisms (4 Credits)
The identification of behavioral adaptations of estuarine and marine organisms: their ecology, physiology, development, and evolutionary history; field observations.
Prerequisites: BIOL 101 and BIOL 102 or MSCI 311.

Cross-listed course: MSCI 538

BIOL 539 - Biochemistry (3 Credits)
Description of biological macromolecules and major metabolic pathways.
Prerequisites: C or higher in CHEM 334.

Cross-listed course: CHEM 550

BIOL 541L - Biochemistry Laboratory (1 Credit)
Experiments and demonstrations illustrating the principles of biochemistry. Three laboratory hours per week.
Prerequisite or Corequisite: C or higher in CHEM 550 or BIOL 541 or CHEM 555 or BIOL 545.

Cross-listed course: CHEM 550L
BIOL 543 - Comparative Physiology (3 Credits)
An integrative and comparative study of the structure, function, and evolution of the physiological systems of animals. Three lecture hours per week.
Prerequisites: BIOL 302 or MSCI 311.

BIOL 543L - Comparative Physiology Laboratory (1 Credit)
Laboratory exercises to illustrate principles from BIOL 543. Three hours per week.
Corequisite: BIOL 543.

BIOL 545 - Biochemistry/Molecular Biology I (3 Credits)
Essentials of modern biochemistry. First semester of a two-semester course. Three lecture hours per week.
Prerequisites: C or higher in BIOL 302.

Cross-listed course: CHEM 555

BIOL 546 - Biochemistry/Molecular Biology II (3 Credits)
Essentials of modern biochemistry and molecular biology. Three lecture hours per week.
Prerequisites: C or higher in BIOL 302.

Cross-listed course: CHEM 556

BIOL 549 - Plant Physiology (4 Credits)
A general survey of the major physiological processes in plants. Two lecture and four laboratory hours per week.
Prerequisites: BIOL 302 and BIOL 425.

BIOL 550 - Bacteriology (3 Credits)
Introduction to bacteria and viruses emphasizing ultrastructure, physiology, genetics, and growth. Discussion of public health, industrial, and environmental microbiology. Three lecture hours per week.
Prerequisites: BIOL 302 or MSCI 311.

Corequisite: BIOL 550L.

Graduation with Leadership Distinction: GLD: Research

BIOL 550L - Bacteriology Laboratory (1 Credit)
Three laboratory hours per week.
Corequisite: BIOL 550.

BIOL 552 - Population Genetics (3 Credits)
An introduction to the principles of population genetics, with emphasis on the origin, maintenance, and significance of genetic variation in natural populations.
Prerequisites: BIOL 301, MSCI 302, and BIOL 303.

Cross-listed course: MSCI 552
Graduation with Leadership Distinction: GLD: Research

BIOL 553 - Genomics (3 Credits)
Current concepts and applications of genomics, addressing questions from throughout biological inquiry.
Prerequisites: BIOL 301, BIOL 303.

BIOL 555 - Stem Cells and The Physiological Environment (3 Credits)
Discussion of how physiological factors, like nutritional status, influence systemic signals to alter stem cell activity, and the physiological stimuli that impact stem cell activity in a variety of organisms (from worms to humans).
Prerequisites: C of higher in BIOL 302.

BIOL 570 - Principles of Ecology (3 Credits)
Interactions of organisms and the environment; ecosystem structure and functions. Three lecture hours per week.
Prerequisites: BIOL 301 or MSCI 311.

BIOL 570L - Principles of Ecology Laboratory (1 Credit)
Three hours per week.
Prerequisite or Corequisite: BIOL 570.

BIOL 571 - Conservation Biology (3 Credits)
Principles of conservation biology. Importance of biodiversity, causes of decline and extinction, and restoration and conservation policy in terrestrial and aquatic ecosystems.
Prerequisites: BIOL 301.

Cross-listed course: ENV 571

BIOL 572 - Freshwater Ecology (3 Credits)
Quantitative study of the population, community and evolutionary ecology of freshwater habitats (lakes, ponds, rivers, streams, wetlands). Includes mandatory field trips.
Prerequisites: BIOL 301.

Cross-listed course: ENV 572

BIOL 574 - Marine Conservation Biology (3 Credits)
Exploration of how human activities affect marine natural populations, species, communities and ecosystems, including threats to biodiversity; approaches to marine conservation; and ecological and evolutionary responses to anthropogenic disturbance.
Prerequisites: BIOL 301.

Cross-listed course: MSCI 574

BIOL 575 - Marine Ecology (3 Credits)
Structure, dynamics, and interactions between populations and communities in marine ecosystems. Attendance at designated departmental seminars is required. Three lecture hours per week.
Prerequisites: CHEM 111 and BIOL 301 or MSCI 311.

Cross-listed course: MSCI 575

BIOL 575L - Marine Ecology Laboratory (1 Credit)
Laboratory and field exercises in coastal environments.
Prerequisite or Corequisite: BIOL 575.

Cross-listed course: MSCI 575L

BIOL 576 - Marine Fisheries Ecology (3 Credits)
Interdisciplinary examination of the distribution, reproduction, survival, and historical variation of the principal commercial marine fisheries.
Prerequisites: BIOL 301.

Cross-listed course: MSCI 576

BIOL 577 - Ecology of Coral Reefs (4 Credits)
Structure, productivity, and biodiversity of coral reefs, emphasizing their sensitivity, stability, and sustainability. Taught as an extended field experience with daily lectures and guided research activities.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: MSCI 577
**BIOL 588 - Genomic Data Science (3 Credits)**
This course focuses on quantitative knowledge for interdisciplinary applications in genetics as well as hands-on experience in analyzing genetic data. In this course, students will have programming exercises in using analysis tools to conduct genome-wide analysis, annotation, and interpretation of genetic data using R/Bioconductor packages.
**Prerequisites:** C or better in BIOL 302 or BIOL 303.

**Cross-listed course:** STAT 588

**BIOL 599 - Topics in Biology (1-3 Credits)**
Current developments in biological sciences. Readings and research on selected topics. Course content varies and will be announced in the schedule of classes by title.

**BIOL 610 - Hallmarks of Cancer (3 Credits)**
Survey of current concepts regarding the molecular and genetic factors that regulate the origin and progression of cancer. Readings based on current primary literature.
**Prerequisites:** BIOL 302 and BIOL 303.

**BIOL 612 - Virology - Classical and Emerging Concepts (3 Credits)**
Advanced study of viruses with regard to biochemical, molecular, pathological, epidemiological, and biotechnological aspects. Focus on animal viruses with particular emphasis on human pathogens.
**Prerequisites:** BIOL 302.

**BIOL 614 - Stem Cell Biology (3 Credits)**
Focuses on the understanding of how stem cells can be used to make fundamental biological discoveries with a special focus in neuroscience.
**Prerequisites:** C or better in BIOL 302.

**BIOL 620 - Immunobiology (3 Credits)**
Basic immunological concepts including antibody structure, function, and genetics; cellular immunology; transplantation; hypersensitivity; autoimmunity; and immunity to infectious diseases.
**Prerequisites:** BIOL 302.

**BIOL 625 - Medical Mycology (3 Credits)**
Advanced study of infectious diseases caused by fungi. Etiology, symptoms, and treatment of fungi related illnesses.
**Cross-listed course:** ENHS 625

**BIOL 627 - Marine Phytoplankton (3 Credits)**
Examines the physiology and ecology of phytoplankton, including environmental controls on community composition, primary productivity, and detection and characterization of water quality (eutrophication) and harmful algal blooms.
**Prerequisites:** MSCI 102 or MSCI 450 or BIOL 450.

**BIOL 630 - Biology of Birds (3 Credits)**
Biology of birds at molecular, organismal, and population levels, emphasizing unique adaptations of the class of Aves.
**Prerequisites:** BIOL 301, BIOL 302, and BIOL 303.

**BIOL 634 - Biology of Neurological Diseases (3 Credits)**
Advances in molecular and cellular neurobiology that bring new understanding for human neurological disease.
**Prerequisites:** BIOL 302 and SCHC 330 or BIOL 405.

**BIOL 635 - Neurophysiology (4 Credits)**
Descriptive and experimental aspects of the neural basis of behavior, emphasizing cellular and molecular mechanisms. Two lecture and six laboratory hours per week. Three lecture hours per week.
**Prerequisites:** BIOL 302.

**BIOL 640 - Microbial Ecology (3 Credits)**
Interactions of microorganisms with each other, with more complex organisms, and with their environments. Three lecture hours per week.
**Prerequisites:** BIOL 550 and either BIOL 301 or MSCI 311.

**BIOL 641 - Biophysical Ecology (3 Credits)**
This course examines how the mechanisms by which animals and plants interact with their physical environments influence organi animal physiology.
**Prerequisites:** BIOL 301, MATH 141 or MATH 122.

**BIOL 650 - Biochemical Evolution (3 Credits)**
Advanced study of related aspects of biological evolution. Rose of life from physical and chemical precursors, biochemical basis of adaptation to ecological pressures, and biochemical aspects of the origins and maintenance of biodiversity.
**Prerequisites:** BIOL 301, BIOL 302, BIOL 303.

**BIOL 651 - Limnology (4 Credits)**
A study of the aquatic environment and its biota. Three lecture and four laboratory hours per week.
**Prerequisites:** BIOL 301.

**BIOL 652 - Evolutionary Biology (3 Credits)**
An advanced course in evolutionary biology, including natural selection, neutral evolution, molecular evolution population genetics, quantitative genetics, sexual selection, speciation, human evolution, and the evolution of disease.
**Prerequisites:** BIOL 301 and BIOL 303.

**BIOL 653 - Bioinformatics (3 Credits)**
Studies of the principles of genetics and molecular biology as applied to adaptive evolution of genes and genomes.
**Prerequisites:** BIOL 302, BIOL 303.

**BIOL 654 - Speciation (3 Credits)**
Speciation as the source of biological diversity. Historical and biological viewpoints. Analysis of concepts of species and models of speciation. Two lectures and one recitation per week.
**Prerequisites:** BIOL 301 or BIOL 652.

**BIOL 655 - Biotechnology (3 Credits)**
Studies in molecular biology and genetics with emphasis on the use of newly developed techniques in biotechnology. Three lecture hours per week.
**Prerequisites:** BIOL 302 and BIOL 303.

**BIOL 656 - Experimental Biotechnology (4 Credits)**
Techniques used in biotechnology will be employed in the context of an experimental project. Twelve laboratory hours per week.
**Prerequisites:** BIOL 302, BIOL 302L.

**BIOL 660 - Biology of Mammals (4 Credits)**
Evolution, systematics, genetics, ecology, and adaptation of mammals. Emphasis on native South Carolina species. Two lectures and one two-hour laboratory per week, plus five field trips to be arranged.
**Prerequisites:** BIOL 301 or MSCI 311.
BIOL 662 - Signal Transduction and Pathogenesis (3 Credits)
Signaling pathways involved in human diseases, such as cancer, AIDS, autoimmune diseases and diabetes, and cellular processes involving apoptosis, cell cycle, cell-cell adhesion, growth factors, hormones, G protein-couples receptors, cytokines and immune response.
Prerequisites: BIOL 302 and BIOL 303.

BIOL 665 - Human Molecular Genetics (3 Credits)
Molecular mechanisms underlying gene action and differentiation in man; the genetic bases for human variability and inborn metabolic errors leading to inherited diseases.
Prerequisites: BIOL 302 and BIOL 303.

BIOL 667 - Molecular and Genetic Diseases of Pathogenesis (3 Credits)
An advanced examination of the molecular mechanisms underlying gene action in humans. Current literature illustrating the genotype-phenotype relationship in human disease pathogenesis will be discussed.
Prerequisites: BIOL 302 and BIOL 303.

BIOL 668 - Metabolic Biochemistry of Human Disease (3 Credits)
Core concepts of biochemistry as applied to human health and disease.
Prerequisites: C or higher in CHEM 555/BIOL 545 or CHEM 550/BIOL 541.

Cross-listed course: CHEM 655

BIOL 670 - Plant Ecology (3 Credits)
Structure and dynamics of plant populations and communities, including life histories, adaptations, and plant interactions. Three lecture hours per week.
Prerequisites: BIOL 301.

BIOL 670L - Plant Ecology (1 Credit)
Laboratory and field exercises in plant ecology. Four hours per week.
Prerequisite or Corequisite: BIOL 670.

BIOL 671 - Plant Responses to the Environment (3 Credits)
Physiological, molecular, and genetic examination of induced plant responses to various biotic and abiotic environmental stresses.
Prerequisites: BIOL 302.

BIOL 690 - Ultramicroscopy (3 Credits)
Theoretical and practical aspects of scanning and transmission electron microscopy, digital image acquisition and energy dispersive x-ray spectroscopy. Two lecture and one laboratory hour per week, plus a research project to be arranged.
Prerequisites: BIOL 302 or MSCI 311.

Biomedical Engineering (BMEN)

BMEN 101 - Introduction to Biomedical Engineering (2 Credits)
Introduction to topics comprising the field of Biomedical Engineering, including their ethical impacts. Familiarization with resources and basic skills necessary to succeed in this major and field.
Prerequisite or Corequisite: MATH 141.

BMEN 202 - Professional Development and Ethics in Biomedical Engineering II (1 Credit)
Communication in the field of biomedical engineering, including technical writing and oral presentations with emphasis on professional development, articulation of a critical position, and productive intellectual exchange. Careers in the field of biomedical engineering. Planning and managing group projects. Ethical issues associated with biomedical engineering.
Prerequisites: BMEN 101.

BMEN 211 - Computational Tools for Modeling Biomedical Systems (3 Credits)
Introduction to modern computational modeling tools used in biomedical engineering. Analysis and visualization using engineering software as applied to problems of interest in biomedical engineering. Material balance modeling of biomedical systems.
Prerequisites: C or better in MATH 141.

Prerequisite or Corequisite: CHEM 111 or CHEM 141.

BMEN 212 - Fundamentals of Biomedical Systems (3 Credits)
Fundamentals of static equilibrium, free body diagrams, force and momentum balances; viscoelastic mechanical behavior and models of viscoelasticity; introduction to linear circuit analysis, filters, and amplifiers.
Prerequisites: C or better in both CHEM 111 or CHEM 141, and MATH 141.

BMEN 240 - Cellular and Molecular Biology with Engineering Applications (4 Credits)
Introduction to molecular, cellular, and physical biology principles and concepts and application of engineering principles to further the understanding of biological systems. Protein and nucleic acid structure and function; DNA replication, mutations, and repair; transcription, translation, and post-translational processing; cellular organization; molecular transport and trafficking; and cellular models.
Prerequisites: C or better in BIOL 101, C or better in CHEM 112 or CHEM 142, and C or better in MATH 142.

BMEN 260 - Introduction to Biomechanics (3 Credits)
Prerequisites: C or better in BMEN 211, C or better in MATH 241, C or better in PHYS 211.

BMEN 263 - Introduction to Biomechanics (3 Credits)
Mathematical and theoretical analysis of the mechanical properties and functions of materials, including those of biological origin and clinical relevance. Stress, strain, mechanical properties of materials, axial loading, torsion, bending, and stress/strain transformations. Application of the categories and methodology of solid mechanics to study biological tissues and events.
Prerequisites: C or better in BMEN 212, C or better in MATH 241, C or better in PHYS 211.
BMEN 271 - Introduction to Biomaterials (3 Credits)
Properties of metals, ceramics, polymers, natural materials and composites; methods to modify surface and bulk properties of biomaterials; mechanisms of degradation in physiological environments; cell- and tissue-biomaterial interactions; host response to implanted biomaterials; blood-biomaterial interactions; rational design of biomaterials for specific biomedical applications.
Prerequisites: CHEM 333, C or better in BMEN 240 or BIOL 302, C or better in BMEN 260 or BMEN 263, C or better in BMEN 290.

BMEN 290 - Thermodynamics of Biomolecular Systems (3 Credits)
First, second, and third law of thermodynamics; free energy and chemical equilibrium in biological processes; phase equilibrium for biomedical systems; energy and metabolism; membrane potentials and depolarization.
Prerequisites: C or better in BMEN 240 or BMEN 211, C or better in MATH 241, C or better in PHYS 211.

BMEN 302 - Professional Development and Ethics in Biomedical Engineering (2 Credits)
Analysis and discussion of biomedical industries, standards, regulations, products, and patents. Ethical issues associated with research, introduction of new products, animal subjects, and human subjects.
Prerequisites: BMEN 101.

BMEN 303 - Professional Development and Ethics in Biomedical Engineering (1 Credit)
Analysis and discussion of industries, products, patents, industrial inventiveness, and biomedical research. Ethical issues associated with research, introduction of new products, animal subjects, and human subjects.
Prerequisites: BMEN 101.

BMEN 321 - Biomonitoring and Electrophysiology (3 Credits)
Basic electric circuits and equivalent cell model circuits used in biomonitoring and electrophysiology. Ohm's and Kirchhoff's Laws. Applications of electrical components, such as operations amplifiers, filter, and Wheatstone bridge, in biomonitoring and electrophysiology. Origins of bioelectricity. Biopotential and electrochemistry including Nernst and Goldman-Hudgkin-Katz equations for describing membrane potential of nerve and muscle cells. Ion transport involved in maintaining cell pH, action potential, muscle contraction, sensory perception.
Prerequisites: PHYS 212, C or better in BMEN 211 or BMEN 212, C or better in BMEN 240 or BIOL 302, C or better in MATH 242.

BMEN 342 - Infectious Disease & Immunology for Biomedical Engineers (3 Credits)
Qualitative and quantitative aspects of infectious diseases; principles of diagnosis and control. Elements of human immunological response and immune disorders; influence on biomedical engineering of explants and implants.
Prerequisites: BIOL 101.

BMEN 345 - Human Anatomy and Physiology for Biomedical Engineers (4 Credits)
Foundations for biomedical engineering with a focus on human anatomy and physiology. Introduction to the inter-relationships between tissue/organ structure and function; demonstration of how an engineering approach can promote understanding of these relationships. Recent biomedical engineering advances and their relations to underlying anatomy and physiology.
Prerequisites: BMEN 271, C or better in BIOL 302 or BMEN 240.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

BMEN 346 - Medical Microbiology for Biomedical Engineers (3 Credits)
Qualitative and quantitative aspects of human system based medical microbiology; principles of diagnosis and control of representative human diseases. Elements of human immunological response and immune disorders.
Prerequisites: BMEN 240 or BIOL 302.

BMEN 354 - Biotransport (3 Credits)
Basics of convective and diffusive transport applied to biological and biomedical systems. The effect of fluid flow and mass transport upon biochemical interactions. Scaling and design of biotransport systems.
Prerequisites: ECHE 320 or EMCH 360 or ENCP 360, C or better in MATH 242.

BMEN 361 - Biomedical Instrumentation (4 Credits)
Principles of and experimental measurements using bioinstrumentation. Data acquisition, processing, and statistical analysis. Lab and electrical safety. Analytical methods including hematology, human fluids analysis, biosensors, chromatographic techniques, electrophoresis, dialysis, spectrophotometry, fluorometry, and microscopy. Applications of bioinstrumentation in disease diagnosis.
Prerequisites: BMEN 321, STAT 509.

BMEN 363 - Biomedical Instrumentation (3 Credits)
Sensing and measurement of biophysical and biochemical properties and signals in the human body for quantitative molecular, cell, and tissue analysis. Overview on the theory, design and application of common biomedical instrumentation used for diagnosis, treatment, and scientific study of physiological parameters in clinical medicine and biomedical research.
Prerequisites: BMEN 321.

BMEN 381 - Biomedical Engineering Laboratory I (2 Credits)
Introduction to laboratory techniques and tools used for physiological measurements in biomedical engineering, with focus on biological, physical, and biomaterial methods. Data processing and analysis, as well as effective communication of results in written and oral form.
Prerequisites: BMEN 260 or BMEN 263, STAT 509.

Prerequisite or Corequisite: BMEN 271.

BMEN 382 - Biomedical Engineering Laboratory II (2 Credits)
Introduction to laboratory techniques and tools used for physiological measurements in biomedical engineering, with focus on measurement of biosignals and common analytical methods employed in biomedical research and clinical settings. Data processing and analysis, as well as effective communication of results in written and oral form.
Prerequisites: BMEN 321, BMEN 381.

Prerequisite or Corequisite: BMEN 363.
BMEN 389 - Special Topics in Biomedical Engineering for Undergraduates (1-3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topic varies.

BMEN 391 - Kinetics in Biomolecular Systems (3 Credits)
Kinetic theory applied to biomedical systems, including enzymatic reactions, cell growth, and kinetic models of biological systems.
Prerequisites: CHEM 333 or CHEM 550 or BIOL 541; C or better in BMEN 290; C or better in MATH 242.

BMEN 392 - Fundamentals of Biochemical Engineering (3 Credits)
Biological systems are used in chemical industries for a wide variety of applications, including the formation of important products (e.g. pharmaceuticals), sensor technology, degradation, and waste water treatment. This class will provide an overview of materials needed to investigate and model biosystems.
Prerequisites: CHEM 333.

BMEN 411 - Modeling and Simulation of Biomedical Systems (3 Credits)
Introduction to modern computational modeling tools used in biomedical engineering. Analysis, visualization and image processing using engineering software as applied to problems of interest in biomedical engineering.
Prerequisites: BMEN 263, BMEN 271, and BMEN 354 with a minimum grade of D.

BMEN 427 - Senior Biomedical Engineering Design I (3 Credits)
Integrated team work/project management, "voice of the patient," design specifications, design functions, design concepts, economic factors, concept selection and product architecture. The initial feasibility study, selection of the final design approach, and preliminary specifications are required by the end of the semester.
Prerequisites: BMEN 271, BMEN 345, BMEN 354, BMEN 361 or BMEN 363.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

BMEN 428 - Senior Biomedical Engineering Design II (3 Credits)
Design for manufacturability, ergonomic and aesthetic considerations, prototype construction and testing, fabrication and biological testing of tissue engineered constructs, statistical methods/design of experiments, ethics/product liability and social/environmental impact. The final engineering design (specifications, drawings, bill of materials, including assessment of economics) will be completed by the end of the semester. Both written and oral reports are to be provided.
Prerequisites: BMEN 427.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

BMEN 499 - Independent Research (1-3 Credits)
Summer internship, REU, or co-op experience in biomedical engineering. Students enroll in this course following their research experience and prepare a summary paper and research seminar on their technical accomplishments. A maximum of 3 credits may be applied toward the degree.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

BMEN 532 - Micro/nanofluidics and Lab-on-a-Chip (3 Credits)
Basic fluid mechanics, capillary, drop and micro/nanoparticle, electrokinetics; micropump, mixer, preconcentrator, electrophoresis, microactuator and particle manipulator; sensors for pressure, velocity, concentration, temperature in environmental monitoring/biodefence, clinical diagnostics, drug discovery/delivery.
Prerequisites: D or better in CHEM 112 and CHEM 112L or CHEM 142; D or better in PHYS 212.

BMEN 537 - Bio Nano/Micro Electro-Mechanical Systems (3 Credits)
Fundamentals of nano- and microfabrication, metrology and their applications in biomedical engineering and science. The fabrication covers photolithography, nano/microfabrication for nano/microstructures, etching and additive techniques, MEMS integration and packaging, etc. Metrology focuses on characterization of nanostructures with imaging technologies.
Prerequisites: D or better in CHEM 112 and CHEM 112L or CHEM 142; D or better in PHYS 212.

BMEN 546 - Delivery of Bioactive Agents (3 Credits)
Routes of administration; mechanisms of drug absorption and biological barriers; pharmacokinetic modeling of drug distribution; drug excretion and biotransformation; design and evaluation of controlled release systems, targeted release systems, and responsive release systems.
Prerequisites: BIOL 302, CHEM 333, MATH 142.

BMEN 547 - Immunoeengineering (3 Credits)
Engineering approaches to study and control immune reactions and their applications in therapy and diagnostics for infectious disease, cancer, allergy, autoimmunity, and transplantation.
Prerequisites: C or better in BMEN 240 or BIOL 302.

BMEN 548 - Cardiovascular System: From Development to Disease (3 Credits)
Survey of cardiovascular development, anatomy, physiology and pathology. Recent advances in our understanding of the basic mechanisms of congenital cardiovascular defects and cardiovascular disease. Engineering principles, detection and treatment of cardiovascular defects.
Prerequisites: BMEN 240 or BIOL 302.

BMEN 556 - Advanced Biomechanics (3 Credits)
Mathematical and theoretical analysis of the mechanical properties and functions of soft biological tissues to include arterial vessels.
Prerequisites: BMEN 260 or BMEN 263.

BMEN 572 - Tissue Engineering (3 Credits)
Molecular basis of bioregenerative engineering; biomaterial design; biocompatibility assessment; cell isolation and characterization; rapid prototyping, scaffold fabrication, and biofabrication; protein and gene delivery; bioreactor design; transport in biological tissues; applications of tissue engineering in regenerative medicine.

BMEN 589 - Special Topics in Biomedical Engineering (1-3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topic varies.
Biostatistics (BIOS)

BIOS 410 - Introduction to Biostatistical Modeling (3 Credits)
Statistical modeling, primarily using applications in public health. Measures of agreement, principles of statistical inference, correlation, simple and multiple linear regression, categorical independent variables, interaction, repeated measures, and logistic regression. Prerequisites: STAT 205 or equivalent.

BIOS 490 - Independent Study (1-3 Credits)
Enrollment and topic to be approved inadvance by advisor and instructor. May be repeated. Graduation with Leadership Distinction: GLD: Research

BIOS 650 - Quantitative Methods in the Health Sciences (3 Credits)
Designed for professionals and pre-professionals who wish to utilize quantitative methods in public and private decision-making: exploratory data analysis, research methods in natural and controlled environments, and elementary biostatistical methods. Prerequisites: STAT 201.

Business Administration (BADM)

BADM 301 - Business Careers in the Global Economy (1 Credit)
Course outlines job search essentials for business careers in a global economy. Business networking, interviewing, and career planning with an international focus will be covered. Completion of lower division business courses.

BADM 397D - T: European Business (1 Credit)

BADM 399 - Independent Study (1-15 Credits)
Not to include Business Internship. (See BADM 499) Contract approved by instructor, advisor and undergraduate division head is required. Graduation with Leadership Distinction: GLD: Research

BADM 401 - Planning and Managing a Career in Business (3 Credits)
Course will focus on defining and enhancing life/career goals using leadership assessment, life planning processes, and emotional intelligence discussions, all linked to transition to work. Prerequisites: BADM 301.

BADM 499 - Business Internship (3-6 Credits)
Supervised work experience of at least nine hours per week as approved by area program director, to include one class meeting a month and individual consultation. Generally three hours of academic credit, but upon special request of supervising professor and approval of appropriate area director, an internship may carry a maximum of six hours credit. Pass-Fail only. Contract approved by instructor, advisor, and undergraduate division head is required. Prerequisites: Completion of BADM core curriculum except MGMT 478, plus at least one additional course in the student’s major field of study. Cumulative GPA of 2.75.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

Chemical Engineering (ECHE)

ECHE 101 - Introduction to Chemical Engineering (2 Credits)
Introduction to engineering, with emphasis on chemical engineering. Problem-solving techniques, including the use of computer tools. Basic engineering design methods.

ECHE 202 - Exploring the Chemical Engineering Workplace (1 Credit)
Identification of career interests and active exploration of careers in chemical engineering. Prerequisite or Corequisite: ECHE 300.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ECHE 203 - Research in Chemical Engineering (1 Credit)
Introduction to research in Chemical Engineering, effective literature search, communication of results, lab safety, and research ethics. Graduation with Leadership Distinction: GLD: Research

ECHE 300 - Chemical Process Principles (3 Credits)
Material and energy balances in the chemical process industry. Properties of gases, liquids, and solids. Two one-hour lectures and one three-hour laboratory period devoted to problem solving. Prerequisites: MATH 141.

Prerequisite or Corequisite: CHEM 112 or CHEM 142.

ECHE 310 - Introductory Chemical Engineering Thermodynamics (3 Credits)
First law and second law of thermodynamics. Thermodynamic properties of single component systems. Analysis of power and refrigeration cycles. Prerequisites: C or better in ECHE 300.

Prerequisite or Corequisite: MATH 241.

ECHE 311 - Chemical Engineering Thermodynamics (3 Credits)
Mass, energy, and entropy balance analysis of chemical engineering systems; evaluation of thermodynamic property changes of pure materials; solution thermodynamics of single-phase multicomponent systems; phase and chemical reaction equilibrium. Prerequisites: C or better in ECHE 310 or ENCP 290.

ECHE 320 - Chemical Engineering Fluid Mechanics (3 Credits)
Fluid statics and dynamics with emphasis on chemical engineering applications. Prerequisites: PHYS 211.

Prerequisite or Corequisite: MATH 241.

ECHE 321 - Heat-Flow Analysis (3 Credits)
Theory of heat transmission; mechanism, generation, distribution, and measurement; use of theory in practical equipment design. Prerequisites: C or better in ECHE 320 or ENCP 360; C or better in MATH 242.

Prerequisite or Corequisite: D or better in ECHE 456.

ECHE 322 - Mass Transfer (3 Credits)
Molecular diffusion in fluids; diffusion in laminar and turbulent flow; momentum, transport analogies; interfacial mass transfer; design applications including humidification and absorption. Prerequisites: D or better in ECHE 321.

ECHE 372 - Introduction to Materials (3 Credits)
Overview of the fundamental chemical aspects of materials; role of materials in applications in modern society by case studies of advances in new materials and processes. Prerequisites: CHEM 112.

ECHE 389 - Special Topics in Chemical Engineering (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topic varies.
ECHE 430 - Chemical Engineering Kinetics (3 Credits)
Concepts of chemical kinetics, batch and flow reactors, catalysts and reactor design.
Prerequisites: C or better in ECHE 311.
Prerequisite or Corequisite: D or better in ECHE 321.

ECHE 440 - Separation Process Design (3 Credits)
Design of stagewise chemical separation cascades; analysis of binary and ternary systems; multicomponent separations, plate and column specification procedures; distillation, crystallization, extraction, and leaching.
Prerequisites: C or better in ECHE 300.
Prerequisite or Corequisite: ECHE 311.

ECHE 442 - Adsorption Fundamentals and Processes (3 Credits)
Basic principles of adsorption and adsorption processes including adsorbents, thermodynamics, kinetics, fixed bed adsorption and cyclic adsorption processes.

ECHE 456 - Computational Methods for Engineering Applications (3 Credits)
Introduction to advanced computational tools for the analysis of chemical engineering systems. Initial and boundary value problems related to heat and mass transfer, reaction engineering, and parameter estimation.
Prerequisite or Corequisite: D or better in MATH 242.

ECHE 460 - Chemical Engineering Laboratory I (3 Credits)
Review of technical-report writing and presentation techniques; topics in heat transfer, fluid mechanics, and thermodynamics; verification of theoretical results and determination of design parameters. One lecture and six laboratory hours.
Prerequisite or Corequisite: ECHE 311, ECHE 321.

ECHE 461 - Chemical Engineering Laboratory II (3 Credits)
Continuation of ECHE 460; topics in mass transfer, kinetics, and process control.
Prerequisites: ECHE 460.
Prerequisite or Corequisite: ECHE 430, ECHE 440.

ECHE 465 - Chemical-Process Analysis and Design I (3 Credits)
Economics of chemical engineering projects related to typical corporate goals and objectives; process-flowsheet development techniques; review of shortcut design techniques; selection of profitability criteria.
Prerequisite or Corequisite: ECHE 430, ECHE 440.

ECHE 466 - Chemical-Process Analysis and Design II (3 Credits)
Continuation of ECHE 465; computer-aided design of chemical processes; written and oral presentation of a comprehensive design project.
Prerequisites: ECHE 430, ECHE 440, ECHE 465.

ECHE 497 - Thesis Preparation (1-3 Credits)
Completion of the thesis requirements for the departmental undergraduate research track. A maximum of three credits may be applied toward a degree.
Prerequisites: Three credit hours of ECHE 499, acceptance into the departmental undergraduate research track, and consent of instructor.

ECHE 498 - Topics in Chemical Engineering (1-3 Credits)
Reading and research on selected topics in chemical engineering. Course content varies and will be announced in the schedule of classes by title. May be repeated two times as topics vary. Pass-Fail grading.
Prerequisites: upper division standing.
Graduation with Leadership Distinction: GLD: Research

ECHE 499 - Special Problems (1-3 Credits)
Individual investigation or studies of special topics. A maximum of six credits may be applied toward a degree. Advance approval of project proposal by advisor and instructor.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ECHE 520 - Chemical Engineering Fluid Mechanics (3 Credits)
Multi-phase pressure drop, phase contacting, flow through porous media, fluidization, mixing, and turbulence.
Prerequisites: ECHE 320 or ENCP 360.

ECHE 521 - Computational Fluid Dynamics for Engineering Applications (3 Credits)
Introduction to the use of computational fluid dynamics codes to analyze flow, heat, and mass transfer problems of practical engineering applications.
Prerequisites: ECHE 320 or EMCH 360 or ECIV 360 or ENCP 360 or AESP 265.

ECHE 530 - Intermediate Chemical Engineering Kinetics (3 Credits)
Intermediate concepts of chemical kinetics, batch and flow reactors, catalysts and reactor design, including non-ideal systems.
Prerequisites: C or better in ECHE 311.

ECHE 540 - Intermediate Separation Process Design (3 Credits)
Intermediate level design of stagewise chemical separation cascades; analysis of binary and ternary systems; multicomponent separations, plate and column specification procedures; distillation, crystallization, extraction, and leaching.
Prerequisites: C or better in ECHE 300.

ECHE 550 - Chemical-Process Dynamics and Control (3 Credits)
Fundamental physical and chemical principles in mathematically modeling the dynamic response of chemical processes; feedback and feedback control systems; design of control schemes for selected chemical processes.
Prerequisites: C or better in ECHE 300 and MATH 242; D or better in ECHE 456.

ECHE 557 - Process Safety, Health and Loss Prevention (3 Credits)
Reliability, availability, and fault-free analyses, risk indices, hazard evaluation, vapor cloud modeling, toxicology, material safety classification and regulations, individual/corporate ethical responsibilities.
Prerequisite or Corequisite: ECHE 466.

ECHE 571 - Corrosion Engineering (3 Credits)
Basic principles of corrosion engineering developed from a chemical engineering approach to thermodynamics, kinetics, mass transfer, and potential theory.
Prerequisites: ECHE 311.
ECHE 572 - Polymer Processing (3 Credits)
Industrial polymers with emphasis on their characterization and on the modeling of the major polymer fabrication processes.

ECHE 573 - Next Energy (3 Credits)
An examination of energy technologies that will enable society to move from an economy based on fossil fuels to one based on sustainable energy.

ECHE 574 - Combustion (3 Credits)
Fundamental process and applications related to the broad field of combustion and energy generation including emissions control technologies.
Prerequisites: ECHE 430.

ECHE 589 - Special Advanced Topics in Chemical Engineering (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topic varies.

Chemistry (CHEM)

CHEM 101 - Fundamental Chemistry I (4 Credits)
A science elective surveying inorganic and solution chemistry. First of a terminal two-semester sequence. Three lecture, one recitation, and two laboratory hours per week.
Carolina Core: SCI

CHEM 102 - Fundamental Chemistry II (4 Credits)
An introductory survey of organic and biochemistry. Three lecture, one recitation, and two laboratory hours per week.
Prerequisites: 1 year high-school chemistry, CHEM 101, CHEM 111, or equivalent.

Carolina Core: SCI

CHEM 105 - Chemistry and Modern Society I (4 Credits)
A conceptual and qualitative approach to chemistry, its evolution, achievements, and goals and its impact on technology, the environment, and modern life and thought. (Specifically designed for non-science majors.) Three lecture and three laboratory hours per week.
Carolina Core: SCI

CHEM 106 - Chemistry and Modern Society II (3 Credits)
A continuation of Chemistry 105. Three lecture hours per week.
Prerequisites: C or higher in CHEM 105.

CHEM 106L - Chemistry and Modern Society II Laboratory (1 Credit)
Laboratory associated with CHEM 106. Three hours of laboratory per week.
Prerequisites: CHEM 105.
Corequisite: CHEM 106.

CHEM 107 - Forensic Chemistry (4 Credits)
Surveys chemical aspects of criminal investigation and adjudication including drug, arson, DNA, paint, and fiber identification. Three lecture and three laboratory hours per week.
Carolina Core: SCI

CHEM 111 - General Chemistry I (3 Credits)
Survey of the principles that underlie all chemistry with applications illustrating these principles. Three lecture and one recitation hours per week.
Prerequisites: C or higher in MATH 111, MATH 115, MATH 122, MATH 141 or higher math (or by placement score into MATH 122, MATH 141 or higher math).
Corequisite: CHEM 111L (unless grade of C or higher in CHEM 111L earned previously).

Carolina Core: SCI

CHEM 111L - General Chemistry I Lab (1 Credit)
Introduction to the principles and techniques of experimental chemistry with emphasis on formula investigations, equations, elementary statistics, and chemical reactivity.
Prerequisites: MATH 111 or MATH 115 or higher.
Prerequisite or Corequisite: CHEM 111.

Carolina Core: SCI

CHEM 112 - General Chemistry II (3 Credits)
Continuation of CHEM 111. Special emphasis on chemical equilibrium. Three lecture and one recitation hours per week.
Prerequisites: C or higher in CHEM 111 and C or higher in MATH 111, MATH 115, MATH 122, MATH 141 or higher math.
Corequisite: CHEM 112L.

CHEM 112L - General Chemistry II Lab (1 Credit)
Continuation of CHEM 111L with emphasis on solution properties, kinetics, equilibrium, acids and bases, and qualitative analysis.
Prerequisites: C or higher in CHEM 111 and CHEM 111L or CHEM 141.
Prerequisite or Corequisite: CHEM 112.

CHEM 118 - Computational Chemistry I (1 Credit)
Introduction to the use of computers in solving chemical problems. One discussion and two laboratory hours per week.
Corequisite: CHEM 112 and CHEM 112L or CHEM 142 (unless a grade of C or higher earned previously).

CHEM 141 - Principles of Chemistry I (4 Credits)
Advanced general chemistry I. Atoms and chemical bonds. Three lecture hours, one recitation hour, and three laboratory hours per week. Credit cannot be received for both CHEM 111 and CHEM 141.
Prerequisites: high-school chemistry; C or higher in MATH 141 or higher math (or by placement score into MATH 142 or higher math).

Carolina Core: SCI

CHEM 142 - Principles of Chemistry II (4 Credits)
Advanced general chemistry II. Chemical kinetics, equilibria, and thermodynamics. Three lecture hours, one recitation hour, and three laboratory hours per week. Credit cannot be received for both CHEM 112 and CHEM 142.
Prerequisites: C or higher in CHEM 141.

CHEM 318 - Computational Chemistry II (1 Credit)
A continuation of CHEM 118, with applications to more advanced chemical problems. One discussion and two laboratory hours per week.
Prerequisites: C or higher in CSCE 145 or CSCE 206 and in CHEM 118.
CHEM 331 - Quantitative Analysis (3 Credits)
Gravimetric, volumetric, and introductory instrumental analysis. Three lecture and one recitation hours per week.
Prerequisites: C or higher in CHEM 112 and CHEM 112L or in CHEM 142.
Corequisite: CHEM 321L.

CHEM 331L - Quantitative Analysis Laboratory (1 Credit)
Three laboratory hours per week. Credit cannot be received for both CHEM 321L and CHEM 322L.
Corequisite: CHEM 321.

CHEM 332 - Analytical Chemistry (3 Credits)
Qualitative analysis, quantitative analysis, fundamental or method analysis, and molecular characterization.
Prerequisites: C or higher in CHEM 112 and CHEM 112L (or in CHEM 142) and in MATH 141 or higher MATH.
Corequisite: CHEM 322L.

CHEM 332L - Analytical Chemistry Laboratory (1 Credit)
Laboratory skill building in analytical techniques. Applications of stoichiometry, spectroscopy, phase transfer, electrochemistry and kinetics. Credit cannot be received for both CHEM 321L and CHEM 322L.
Prerequisites: C or better in CHEM 112 and CHEM 112L or CHEM 142.
Corequisite: CHEM 322.

CHEM 333L - Essentials of Organic Chemistry Laboratory I (1 Credit)
Laboratory safety, syntheses, separation, and purification of carbon compounds. For non-majors.
Corequisite: CHEM 333 (unless grade of C or higher in CHEM 333 earned previously).

CHEM 333L - Essentials of Organic Chemistry Laboratory II (1 Credit)
Continuation of CHEM 333L. Spectroscopic identification of carbon compounds. For non-majors. Three lab hours per week.
Prerequisites: C or higher in CHEM 333L.
Corequisite: CHEM 334 (unless grade of C or higher in CHEM 334 earned previously).

CHEM 333 - Organic Chemistry I (3 Credits)
Contemporary theories, nomenclature, reactions, mechanisms, and syntheses of carbon compounds. Three lecture and one recitation hours per week.
Prerequisites: C or higher in CHEM 112 or in CHEM 142.

CHEM 333L - Comprehensive Organic Chemistry Laboratory I (2 Credits)
Laboratory safety, synthesis, separation, and purification of carbon compounds. Required for chemistry majors. Six laboratory hours per week.
Corequisite: CHEM 333 (unless grade of C or higher in CHEM 333 earned previously).

CHEM 334 - Organic Chemistry II (3 Credits)
Continuation of CHEM 333. Three lecture and one recitation hours per week.
Prerequisites: C or higher in CHEM 333.

CHEM 334L - Comprehensive Organic Chemistry Laboratory II (2 Credits)
Continuation of CHEM 333L. Spectroscopic identification of carbon compounds. Required for chemistry majors. Six laboratory hours per week.
Prerequisites: C or higher in CHEM 333L.
Corequisite: CHEM 334 (unless grade of C or higher in CHEM 334 earned previously).

CHEM 340 - Elementary Biophysical Chemistry (3 Credits)
A non-calculus approach to the study of the principles of physical chemistry emphasizing their application to significant biochemical and biological systems. Chemical thermodynamics, kinetics, equilibrium, solution chemistry, the structure of macromolecules, and acid-base properties of biomolecules. Credit for a degree will not be given for both CHEM 340 and CHEM 541.
Prerequisites: C or higher in CHEM 112 and CHEM 112L or in CHEM 142.

CHEM 360 - Undergraduate Seminar (1 Credit)
Student seminars and a survey of biochemical and molecular biology research at the University of South Carolina. Required of all biochemistry majors.

CHEM 399 - Independent Study (1-3 Credits)
Contract Required.
Graduation with Leadership Distinction: GLD: Research

CHEM 401 - Industrial Chemistry Capstone Experience (3 Credits)
Prepares students for future roles in chemical industry or graduate school and provides career-enhancing interpersonal skills, including team-building, public speaking, resume preparation, and interviewing.

CHEM 496 - Undergraduate Research (3 Credits)
Introduction to the methods of chemical research. A written report on work accomplished is required at the end of each semester. Nine hours of library and laboratory per week. Contract Required.
Graduation with Leadership Distinction: GLD: Research

CHEM 497 - Undergraduate Research (3 Credits)
Introduction to the methods of chemical research. A written report on work accomplished is required at the end of each semester. Nine hours of library and laboratory per week. Contract Required.
Graduation with Leadership Distinction: GLD: Research

CHEM 499 - Undergraduate Research (3 Credits)
Introduction to the methods of chemical research. A written report on work accomplished is required at the end of each semester. Nine hours of library and laboratory per week. Contract Required.
Graduation with Leadership Distinction: GLD: Research

CHEM 511 - Inorganic Chemistry (3 Credits)
Consideration of atomic structure, valence, complex compounds, and systematic study of the periodic table.
Prerequisites: C or higher in CHEM 334, PHYS 212, and MATH 241.

CHEM 533 - Comprehensive Organic Chemistry III (3 Credits)
Selected organic reactions from synthetic and mechanistic viewpoints. For Undergraduate Credit Only.
Prerequisites: C or higher in CHEM 334.
CHEM 541 - Physical Chemistry (3 Credits)
Chemical thermodynamics and kinetics. For Undergraduate Credit Only.
**Prerequisites:** C or higher in CHEM 112 (or CHEM 142) and in MATH 241 or higher MATH.

**Corequisite:** PHYS 212; unless a grade of C or higher in PHYS 212 earned previously.

CHEM 541L - Physical Chemistry Laboratory (2 Credits)
Applications of physical chemical techniques. Five laboratory hours and one recitation hour per week.
**Prerequisites:** C or higher in CHEM 321L or in CHEM 322L or in CHEM 142.

**Corequisite:** CHEM 541 (unless grade of C or higher in CHEM 541 earned previously).

CHEM 542 - Physical Chemistry (3 Credits)
Spectroscopy, statistical mechanics, and chemical applications of quantum mechanics.
**Prerequisites:** C or higher in CHEM 112 or in CHEM 142, MATH 241 and PHYS 212.

CHEM 542L - Physical Chemistry Laboratory (2 Credits)
Applications of physical chemical techniques. Five laboratory hours and one recitation hour per week.
**Prerequisites:** C or higher in CHEM 321L or in CHEM 322 or CHEM 142.

**Corequisite:** CHEM 542 (unless grade of C or higher in CHEM 542 earned previously).

CHEM 545 - Physical Biochemistry (3 Credits)
A survey of physical methods essential for studies of biomacromolecules. Three lecture hours per week.
**Prerequisites:** C or higher in CHEM 541 and in CHEM 550 or CHEM 555.

CHEM 550 - Biochemistry (3 Credits)
Description of biological macromolecules and major metabolic pathways. Three lecture hours per week.
**Prerequisites:** C or higher in CHEM 334.

**Cross-listed course:** BIOL 541

CHEM 550L - Biochemistry Laboratory (1 Credit)
Experiments and demonstrations illustrating the principles of biochemistry. Three laboratory hours per week.
**Prerequisite or Corequisite:** C or higher in CHEM 550 or BIOL 541 or CHEM 555 or BIOL 545.

**Cross-listed course:** BIOL 541L

CHEM 555 - Biochemistry/Molecular Biology I (3 Credits)
Essentials of modern biochemistry. First semester of a two-semester course. Three lecture hours per week.
**Prerequisites:** C or higher in CHEM 334.

**Cross-listed course:** BIOL 545

CHEM 556 - Biochemistry/Molecular Biology II (3 Credits)
Essentials of modern biochemistry and molecular biology. Three lecture hours per week.
**Prerequisites:** C or higher in BIOL 302.

**Cross-listed course:** BIOL 546

CHEM 569 - Special Topics in Organic Chemistry (3 Credits)
Current developments in organic chemistry. Readings and research on selected topics. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 566 - Special Topics in Inorganic Chemistry (1-3 Credits)
Current developments in inorganic chemistry. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 542 or CHEM 622.

CHEM 569 - Special Topics in Organic Chemistry (3 Credits)
Current developments in organic chemistry. Readings and research on selected topics. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 566 - Special Topics in Inorganic Chemistry (1-3 Credits)
Current developments in inorganic chemistry. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 542 or CHEM 622.

CHEM 572 - Analytical Chemistry (3 Credits)
Methods, principles and strategies for chemical instrumentation in forensic science. Chemical instrumentation laboratory with environmental, forensic, and biotechnology applications. Three laboratory hours per week.
**Prerequisite or Corequisite:** CHEM 621.

**Cross-listed course:** MSCI 624

CHEM 573 - Special Topics in Analytical Chemistry (1-3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 574 - Special Topics in Instrumental Analysis (3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 575 - Special Topics in Analytical Chemistry (1-3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 576 - Special Topics in Instrumental Analysis (3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 577 - Special Topics in Analytical Chemistry (1-3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 578 - Special Topics in Instrumental Analysis (3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 579 - Special Topics in Analytical Chemistry (1-3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 580 - Special Topics in Instrumental Analysis (3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 581 - Special Topics in Analytical Chemistry (1-3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 582 - Special Topics in Instrumental Analysis (3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.

CHEM 583 - Special Topics in Analytical Chemistry (1-3 Credits)
Current developments in instrumental analysis. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

**Prerequisites:** C or higher in CHEM 441 or CHEM 542.
CHEM 644 - Materials Chemistry (3 Credits)
Introduction to materials science; structural and electronic description of inorganic-based solids; experimental techniques in materials chemistry; interfacial energetics and optoelectronic processes at metal and semiconductor surfaces.
Prerequisites: CHEM 542 (unless a grade of C or higher earned previously).

CHEM 649 - Special Topics in Physical Chemistry (1-3 Credits)
Current developments in physical chemistry. Readings and research on selected topics. Course content varies by title and will be announced in the schedule of classes. May be repeated for credit.

CHEM 655 - Metabolic Biochemistry of Human Disease (3 Credits)
Core concepts of biochemistry as applied to human health and disease.
Prerequisites: C or higher in CHEM 555/BIOL 545 or CHEM 550/BIOL 541.

Cross-listed course: BIOL 668

CHEM 659 - Special Topics in Biochemistry (3 Credits)
Selected topics in the field of biochemistry. May be repeated as content varies by title.
Prerequisites: C or higher in CHEM 555/BIOL 545 or CHEM 550/BIOL 541.

Chinese (CHIN)

CHIN 103 - Introduction to Chinese Calligraphy (2 Credits)
Five hundred of the most commonly used Chinese characters. Emphasis is on the phonetic and significant elements common to large groups of ideograms.

CHIN 121 - Elementary Chinese Mandarin (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.

Carolina Core: GFL

CHIN 122 - Basic Proficiency in Mandarin Chinese (4 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills. Admission only by successful completion of Chinese 121.
Prerequisites: CHIN 121.

Carolina Core: GFL

CHIN 221 - Intermediate Mandarin Chinese (3 Credits)
Continued practice of basic sentence patterns used in modern speech with increased emphasis on reading and acquisition of additional characters.

CHIN 222 - Intermediate Mandarin Chinese II (3 Credits)
Continued practice of basic sentence patterns used in modern speech with increased emphasis on reading and acquisition of additional characters.

CHIN 240 - Chinese Culture, Tradition, and Modern Societies (3 Credits)
Introduction to Chinese culture, heritage, and modern societies. Readings selected from printed and online sources. Taught in English.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CHIN 241 - Advanced Intermediate Mandarin Chinese I (3 Credits)
Provides advanced intermediate training in spoken and written Chinese. By increasing students' vocabulary and knowledge of sentence patterns, the course focuses on speaking and writing in coherent, well-formed paragraphs.
Prerequisites: CHIN 222.

CHIN 222 - Advanced Intermediate Mandarin Chinese II (3 Credits)
Continues advanced intermediate training in spoken and written Chinese. Attention is given to complex grammatical patterns, discourse characteristics, and discussions of cultural topics.
Prerequisites: CHIN 321.

CHIN 335 - Women in China (3 Credits)
Introduces the connection between gender and the Chinese national imagination. Readings include cultural and historical documents that purport to explain the experience of women in China. Readings in English. Taught in English.
Cross-listed course: WGST 335
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CHIN 340 - Introduction to Premodern Chinese Literature (3 Credits)
An introduction to the most important works, authors, genres, and themes of Chinese literature from the first millennium B.C.E. to 1911.

CHIN 341 - Modern Chinese Literature (3 Credits)
Readings of canonical texts from modern Chinese literature. A focus is on the role of literature and other cultural documents in the imagination of China as a modern nation. Readings and discussion in English.

CHIN 365 - Screening China (3 Credits)
Survey of Chinese language cinema. Chinese film history and vocabulary with which to discuss film texts. Covers classic leftwing cinema, Hong Kong martial arts films, as well as the Hong Kong, Taiwan, and PRC New Waves. Taught in English. Films subtitled.
Cross-listed course: FAMS 365

CHIN 398 - Selected Topics (3 Credits)
Intensive study in selected authors or literary movements of China, including cultural aspects. May be repeated for credit under different titles. Taught in English.

CHIN 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

CHIN 421 - Advanced Chinese I (3 Credits)
Acquisition of advanced grammar and vocabulary. Emphasis on building oral proficiency in professional settings.
Prerequisites: CHIN 322.

CHIN 422 - Advanced Chinese II (3 Credits)
Continued acquisition of advanced grammar and vocabulary. Emphasis on expanding communicative abilities in a wider variety of interpersonal situations.
Prerequisites: CHIN 421.

CHIN 550 - Advanced Special Topics in Chinese Studies (3 Credits)
Advanced special topics in Chinese studies. May be repeated as content varies by title.

Civil Engineering (ECIV)

ECIV 101 - Introduction to Civil Engineering (3 Credits)
Fundamental concepts in each of the disciplines of civil engineering are discussed. Critical thinking skills are formally fostered by hands-on experiences and group discussions.

ECIV 111 - Introduction to Engineering Graphics and Visualization (3 Credits)
Principles and practice of visualization and graphical representation using modern computer-aided design tools.
ECIV 200 - Statics (3 Credits)
Prerequisites: C or better in MATH 141.

ECIV 201 - Computational Methods for Civil Engineering (3 Credits)
The use of computational tools and techniques for solving civil and environmental engineering problems. Overview of numerical methods including roots of equations, systems of linear equations, interpolation, and integration. Use of spreadsheets to analyze civil and environmental systems.
Prerequisites: C or better in MATH 142 and ECIV 200.

ECIV 210 - Dynamics (3 Credits)
Kinematics of particles and rigid bodies. Vector representation of force and motion. Free-body diagrams, application of energy and momentum methods to solve problems. Rigid body and central force motion.
Prerequisites: C or better in ECIV 200 and in MATH 142.

ECIV 220 - Mechanics of Solids (3 Credits)
Prerequisites: C or better in ECIV 200 or ENCP 200 and in MATH 142.

ECIV 300 - Civil Engineering Measurements (3 Credits)
Theory and application of plane surveying and mapping techniques. Lecture plus laboratory.
Prerequisites: MATH 241.

ECIV 303 - Civil Engineering Materials (3 Credits)
Mechanical and thermal properties of mineral aggregates, cements, concrete, timber, asphalt, metals, and plastics.
Prerequisites: C or better in ECIV 220 or ENCP 260.

ECIV 303L - Civil Engineering Materials Laboratory (1 Credit)
Experiments, exercises, and demonstrations to accompany ECIV 303. Three hours per week.
Prerequisites: ECIV 201 or ENCP 201.
Corequisite: ECIV 303.

ECIV 307 - Professional Development for Civil Engineers (3 Credits)
Prerequisite or Corequisite: D or better in ECIV 320, ECIV 330, ECIV 340, ECIV 350, or ECIV 362.

ECIV 320 - Structural Analysis I (3 Credits)
Prerequisites: ECIV 201; MATH 242; C or better in ECIV 220.

ECIV 325 - Structural Steel Design (3 Credits)
Behavior and design of steel beams, columns, and tension members; strength and stability; design of connections using welded, bolted and riveted construction.
Prerequisites: C or better in ECIV 320.

ECIV 327 - Reinforced Concrete Design (3 Credits)
Behavior and design of reinforced concrete beams, columns, continuous beams and one way slabs, and footings.
Prerequisites: C or better in ECIV 320.

ECIV 330 - Introduction to Geotechnical Engineering (3 Credits)
Engineering properties of soil and rock; hydraulic conductivity, flow nets, drainage design; consolidation theory, shearing strength of soil.
Prerequisites: C or better in either ECIV 220 or ENCP 260.

ECIV 330L - Geotechnical Laboratory (1 Credit)
Laboratory associated with ECIV 330. Soil mechanics experiments, exercises, and demonstrations. Three hours per week.
Prerequisites: ECIV 201 or ENCP 201.
Corequisite: ECIV 330.

ECIV 340 - Introduction to Transportation Engineering (3 Credits)
Transportation design, planning, and operational analysis, including roadway, airway, and railway systems; transportation elements, including traveled way, vehicle, control, terminals, and advanced technology; traffic data collection, interpretation, and analysis.
Prerequisites: D or better in ECIV 201 or D or better in ENCP 201 and D or better in STAT 509 or D or better in STAT 511.

ECIV 340L - Transportation Engineering Laboratory (1 Credit)
This course covers the principles of distances, elevations and angles that pertain to roadways, basic theories in engineering measurements and surveying calculations, and an introduction to mapping, for transportation engineering applications.
Prerequisite or Corequisite: ECIV 340.

ECIV 350 - Introduction to Environmental Engineering (3 Credits)
Concepts of environmental engineering, including air and water pollution, solid and hazardous waste disposal, and noise pollution. Qualitative and quantitative development of engineering techniques for pollution control.
Prerequisites: D or better in CHEM 111 or CHEM 141; C or better in MATH 142.

ECIV 350L - Introduction to Environmental Engineering Laboratory (1 Credit)
Physical, chemical, and biological analysis of water and wastewater. Three laboratory hours per week.
Prerequisites: ECIV 201.
Corequisite: ECIV 350.

ECIV 360 - Fluid Mechanics (3 Credits)
Principles of fluid statics and dynamics. Conservation of mass, momentum, and energy. Similitude and dimensional analysis, open channel flow, lift and drag forces, and introduction to turbulent flow.
Prerequisite or Corequisite: ECIV 210 and MATH 241.

ECIV 362 - Introduction to Water Resources Engineering (3 Credits)
Application of fluid mechanic principles to water resource engineering problems; pipe systems, pumps, open channel flow, peak runoff, seepage, hydraulic structures.
Prerequisites: C or better in either ECIV 360 or ENCP 360.
ECIV 325, ECIV 327, ECIV 330, ECIV 340 or ECIV 362.

Prerequisites: ECIV 201.

Corequisite: ECIV 362.

ECIV 405 - System Applications in Civil Engineering (3 Credits)
Systems approach to analysis and design; application of engineering economic principles to the evaluation of design alternatives; deterministic modeling and optimization emphasizing civil engineering applications.
Prerequisites: D or better in ECIV 201 or ENCP 201.

ECIV 426 - Structural Design (3 Credits)
Design of steel structures including elastic and plastic design concepts. Design of concrete structures including continuous members and long columns.
Prerequisites: ECIV 325 or ECIV 327.

ECIV 470 - Civil Engineering Design (4 Credits)
Application of hydraulic, geotechnical, and structural principles in design; project scheduling; cost estimation; ethics; environmental and social impact; design drawings; report documents.
Prerequisites: D or better in ECIV 307
Prerequisite or Corequisite: D or Better in ECIV 111 or ENCP 102; D or better in two ECIV Distribution.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ECIV 490 - Special Topics (0-3 Credits)
Course content varies and will be announced in the schedule of classes by course title. May be repeated as topic varies. A maximum of twelve credits may be applied towards a degree.
Graduation with Leadership Distinction: GLD: Research

ECIV 497 - Fundamentals of Engineering Preparation (1 Credit)

ECIV 499 - Independent Study in Civil and Environmental Engineering (1-3 Credits)
Individual investigation or studies of special topics. A maximum of three credits may be applied toward a degree. 
Prerequisites: approval of project proposal by instructor; USC/GPA 2.8.

Graduation with Leadership Distinction: GLD: Research

ECIV 502 - Life Cycle Assessment of Civil and Environmental Engineering Systems (3 Credits)
The steps of conducting and interpreting an environmental life cycle assessment on civil and environmental engineering systems. Fundamentals associated with conducting a life cycle assessment, including goal and scope, inventory analysis, impact assessment, and interpretation.
Prerequisites: D or better in ECIV 350 and D or better in either ECIV 303, ECIV 325, ECIV 327, ECIV 330, ECIV 340 or ECIV 362.

ECIV 503 - Structural Modeling and Experimental Methods (3 Credits)
Introduction of structural modeling; strain gauge instrumentation; force, displacement, acceleration, pressure, temperature measurements; concrete and steel modeling; size effects; analysis of experimental data. 
Prerequisites: ECIV 327.

ECIV 520 - Structural Analysis II (3 Credits)
Advanced methods of structural analysis with emphasis on matrix methods. Development of the generalized matrix force and matrix displacement methods of static analysis, with applications to trusses and frames.
Prerequisites: ECIV 320.

ECIV 521 - Numerical Methods in Mechanics (3 Credits)
Prerequisites: D or better in ECIV 201 or ENCP 201.

ECIV 524 - Structural Vibrations (3 Credits)
Response of single- and multiple-degree of freedom structurally dynamic systems to impact, harmonic, wind, and seismic excitations.
Prerequisites: ECIV 320.

ECIV 526 - Timber and Masonry Design (3 Credits)
Basic engineering properties of timber and masonry materials, design methods and philosophies for timber and masonry structures. Particular attention is paid to current codes, specifications and analysis.
Prerequisites: C or better in ECIV 320.

ECIV 530 - Foundation Analysis and Design (3 Credits)
Subsurface investigation procedures. Theoretical and practical aspects of the design of earth retaining structures, spread footings, and pile foundations.
Prerequisites: ECIV 330.

ECIV 531 - Design of Earth Structures (3 Credits)
Geotechnical engineering problems associated with the behavior of earth masses. Soil shear strength, lateral earth pressure, design of retaining structures, slope stability, water flow through soils.
Prerequisites: ECIV 330.

ECIV 533 - Geosynthetics and Geotechnical Design of Landfills (3 Credits)
Principles for the design, construction, and performance of waste containment systems. Characterization of barrier materials; geosynthetics; design of liner and leachate collection systems; stability and deformation analyses of landfills.
Prerequisites: ECIV 330.

ECIV 535 - Geotechnical Engineering in Transportation (3 Credits)
Remote sensing and engineering geology. Field and laboratory testing. Design and maintenance methods for flexible and rigid pavements. Topics in tunnel design and buried conduit.
Prerequisites: ECIV 330.

ECIV 539 - Experimental Methods in Geotechnical Engineering (3 Credits)
Overview of transducers, signal conditioning and data acquisition; test control methods, data analysis and measurement errors; testing systems to measure soil strength, stiffness, and hydraulic conductivity; laboratory projects and examinations.
Prerequisites: ECIV 330, ECIV 330L.
ECIV 540 - Transportation Systems Planning (3 Credits)
Fundamental interactions between supply and demand in transportation systems. Modeling transportation demand and trip-making behavior. Evaluation of alternatives for decision making.
Prerequisites: ECIV 340.

ECIV 541 - Highway Design (3 Credits)
Design of transportation facilities using relevant tools and guidelines with emphasis on physical and operational aspects of arterials, freeways, intersections, and interchanges, including geometry, capacity, control, and safety.
Prerequisites: D or better in ECIV 111 or ENCP 102 and D or better in ECIV 340.

ECIV 542 - Traffic Engineering (3 Credits)
Capacity analysis of freeways and arterials. Traffic flow characteristics and basic relationships among traffic flow parameters. Signalized and unsignalized intersection control and signal timing design.
Prerequisites: ECIV 340.

ECIV 543 - Traffic Safety Analysis (3 Credits)
Research concepts and methodologies to enable students to identify the underlying reasons and factors that contribute to traffic crashes and determine appropriate countermeasures.
Prerequisites: D or better in ECIV 340.

ECIV 551 - Elements of Water and Wastewater Treatment (3 Credits)
Unit operations and processes employed in the physical, chemical, and biological treatment of water and wastewater. Design of water and wastewater treatment systems.
Prerequisites: ECIV 350.

ECIV 555 - Principles of Municipal Solid Waste Engineering (3 Credits)
Fundamentals and engineering principles of solid waste generation, characterization, collection and transport, source reduction and recycling, and physical, chemical, and biological treatment strategies.
Prerequisites: ECIV 350.

ECIV 556 - Air Pollution Control Engineering (3 Credits)
Introduction to the sources of air pollution and the engineering principles used for control and prevention.
Prerequisites: ECIV 350.

ECIV 557 - Sustainable Construction for Engineers (3 Credits)
Instruction to sustainable engineering design alternatives and principles for construction and site development from preconstruction through design and the construction phase.
Prerequisites: ECIV 350 and ECIV 570.

ECIV 558 - Environmental Engineering Process Modeling (3 Credits)
Modeling fate and transport phenomena in environmental processes with applications in engineered unit operators and natural systems.
Prerequisites: ECIV 350 and MATH 242.

ECIV 560 - Open Channel Hydraulics (3 Credits)
Steady and unsteady flows in single or multiple-channel systems.
Prerequisites: ECIV 360.

ECIV 562 - Engineering Hydrology (3 Credits)
Applications of hydrologic techniques to design problems; stormwater simulation models; urban stormwater.
Prerequisites: ECIV 360.

ECIV 563 - Subsurface Hydrology (3 Credits)
Hydrologic cycle, subsurface physical properties, equations of groundwater flow, well flow, well design, groundwater resource development, design of dewatering systems, groundwater contamination.
Prerequisites: ECIV 201, ECIV 360.

ECIV 570 - Land Development for Engineers (3 Credits)
Fundamentals of designing and permitting the conversion of land to new or altered states, including environmental issues, traffic and parking, utility resources, site engineering, ADA, safety, planning, and zoning requirements.
Prerequisites: Three from ECIV 320, ECIV 330, ECIV 340, ECIV 350, and ECIV 362.

ECIV 580 - Railway Engineering I (3 Credits)
Introduction to the analysis and design of the railway infrastructure for freight and passenger systems to include track and track support systems, grade crossings, special trackwork, construction, inspection, assessment and compliance.
Prerequisites: ECIV 303, ECIV 320, ECIV 330, ECIV 340.
Corequisite: ECIV 303.

ECIV 582 - Operation and Logistics of Railway Systems (3 Credits)
Principles of rail operations; Network management; Best practices for train planning, performance management and delivery of service; technical elements of a railway from an operations perspective (train controls, signaling, communications, yards, tractive power etc).
Prerequisites: ECIV 340.

ECIV 588 - Design of Railway Bridges and Structures (3 Credits)
Introduction to railway infrastructure; Structural design considerations and criteria of railway structures; Bridge types and components; Planning and preliminary design of modern railway bridges; Loads and forces; Structural analysis and design of steel railway bridges and components.
Prerequisite or Corequisite: ECIV 330; ECIV 325 or ECIV 327.

Classics (CLAS)
CLAS 220 - Introduction to Classical Mythology (3 Credits)
Major gods, goddesses, heroes, and heroines of classical mythology as portrayed in major literary works; the function of myth in society and its relevance to modern life.
Carolina Core: AIU

CLAS 230 - Medical and Scientific Terminology (3 Credits)
Greek and Latin elements in the formation of medical and scientific vocabulary; designed for students intending to enter the scientific and health professions. No previous knowledge of Greek or Latin required.

CLAS 240 - Sport and Combat in the Ancient World (3 Credits)
This course is designed to introduce students to the importance of competition in the military and private spheres of the Greco-Roman world, a dominant legacy of antiquity.

CLAS 301 - Ancient Philosophy (3 Credits)
An introduction to the work of ancient philosophers, with special emphasis on Plato and Aristotle.
Cross-listed course: PHIL 301

CLAS 302 - Greek and Roman Philosophy after Aristotle (3 Credits)
Problems such as hedonism, providence, belief and evidence, and mysticism, as they appear in the writings of the Epicureans, Stoics, Skeptics, and Plotinus.
Cross-listed course: PHIL 302
CLAS 305 - Greece and Rome in Film and Popular Culture (3 Credits)
Representations of antiquity in cinema, television, and other contemporary media, with emphasis on Hollywood’s reception of Greek and Roman history.
Cross-listed course: HIST 305

CLAS 320 - Sexuality and Gender in Ancient Greece (3 Credits)
Gender roles, standards of sexual behavior, evidence for women’s lives, as manifested in ancient Greek literary and archaeological evidence; attitudes toward homosexuality; the modern media’s representation of famous Greeks.
Cross-listed course: WGST 320
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CLAS 321 - Sexuality, Gender, and Power in Ancient Rome (3 Credits)
Sexuality as a social construct exemplified in standards of sexual behavior in ancient Rome and their reinforcement of the ruling ideology; feminine virtue, definitions of manliness, attitudes toward homosexuality.
Cross-listed course: WGST 321
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CLAS 323 - Greek Civilization on Site (3 Credits)
Introduction to the history and culture of ancient Greece, combined with an excursion of Greece. Topics include: Mycenaean Greece and the world of Homer, Archaic Greece, oikos and polis, interaction with the Near East, Athens in the 5th and 4th century BCE, Greek religion, ancient Greek society.

CLAS 324 - Special Topics in Classical Humanities (3 Credits)
Intensive study of one topic per semester dealing with ancient contributions to Western civilization. Not for Greek or Latin major credit. In English. May be repeated as content varies by title.

CLAS 340 - Greek Art and Archaeology (3 Credits)
A survey of ancient architecture, painting, and sculpture 2000-160 B.C.

CLAS 360 - Classical Origins of Western Medical Ethics (3 Credits)
Examination of ancient Greek and Roman philosophical, medical, and literary works (in English) as sources for the origins of medical ethics. Priority enrollment for Medical Humanities students.
Cross-listed course: PHIL 312

CLAS 361 - Between Magic and Method: Ancient Medicine (3 Credits)
Introduction to ancient medicine: science and art, theory and practice, healing and predicting. Topics include Medicine before Hippocrates, Hippocratic medicine, holism, naturalism, medicine, religion and magic, medicine and scientific explanation, Hellenistic medicine and methodology, Galenic medicine and methodology.
Cross-listed course: PHIL 313

CLAS 401 - Greek and Latin Literature in Translation (3 Credits)
A comparative survey of Greek and Latin literature.

CLAS 469 - Classical Drama (3 Credits)
Representative plays by Greek and Roman dramatists.

CLAS 471 - Rhetoric and the Ancient Roots of Modern Life (3 Credits)
Classical rhetoric and its ongoing influence in the modern world, emphasizing how the study and use of language in ancient Greece and Rome continue to shape modern communication.
Cross-listed course: ENGL 471, SPCH 471

CLAS 586 - Classical Mythology (3 Credits)
The major Greek and Roman myths, with emphasis on their meaning, functions, and influence on ancient and later Western culture.

CLAS 598 - Classics of Western Literary Theory (3 Credits)
Problems of literary theory in texts from the ancients to the 17th century, with an emphasis on the classical tradition.
Cross-listed course: CPLT 701, ENGL 733

Coll of Liberal Arts (COLA)

COLA 298 - Interdisciplinary Special Topics in the Liberal Arts: Social Sciences (3 Credits)
Interdisciplinary special topics emphasizing the social sciences. May be repeated as content varies by title and section.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Research

COLA 390 - Internship: Community Engagement (1-6 Credits)
Supervised experience in the United States. Contract approval by instructor, advisor, and Assistant Dean for Academic Studies is required for undergraduate students. Minimum GPA of 2.5 required or permission of instructor of record.
Experiential Learning: Experiential Learning Opportunity

COLA 391 - Internship: Global Community Engagement (1-6 Credits)
Supervised experience either while student is studying abroad or when offered an internship by an appropriate entity outside the United States. Contract approval by instructor and Assistant Dean for Academic Studies is required. Minimum GPA requirement of 2.5 or higher or permission of the instructor of record.
Experiential Learning: Experiential Learning Opportunity

COLA 398 - Interdisciplinary Seminar (3 Credits)
Advanced reading and research on selected interdisciplinary topics in the liberal arts. Course content varies and will be announced in the schedule of classes by title. Open only to juniors and seniors with consent of instructor.

Communication Disorders (COMD)

COMD 401 - Public Health Perspective in Communication Sciences and Disorders (3 Credits)
Public health issues related to speech, language, and hearing from local, national and global perspective in historical context. Special permission required by department.

COMD 408 - Directed Study in Speech and Language Pathology (1-3 Credits)
Directed readings and/or research in speech pathology.

COMD 500 - Introduction to Speech-Language Pathology and Audiology (3 Credits)
Human communication disorders with an overview of prevention and treatment programs.

COMD 501 - Anatomy and Physiology of Speech and Hearing Mechanisms (3 Credits)
An intensive study of the anatomy and physiology of the speech and hearing mechanisms.

COMD 503 - Anatomy and Physiology of the Auditory and Vestibular System (3 Credits)
Detailed examination of the anatomy and physiology of the auditory and vestibular system.
Prerequisites: COMD 501.

COMD 507 - Language Theory and Phonetics (3 Credits)
Study of language theory and international phonetics alphabet transcription.
COMD 521 - Introduction to Clinical Procedures in Speech Pathology (1 Credit)
Diagnostic and therapeutic programs for the communicatively handicapped will be observed in the public school and various rehabilitative settings. Discussion and study of basic therapeutic theories and procedures utilized in speech therapy. Introduction to phonetics or equivalent or permission of instructor.

COMD 525 - Selected Topics (1-3 Credits)
Presentation of current experimental or innovative programs in diagnosis and treatment of the communicatively impaired. Course is designed to update the practicing clinician in specific areas of expertise. May be repeated for credit. Individual topics to be announced by title. Permission of instructor.

COMD 526 - Disorders of Articulation: Evaluation and Therapy (3 Credits)
The diagnosis and treatment of articulation problems in children and adults, including analysis of current research in testing and therapy for articulation disorders.
Prerequisites: COMD 501 and COMD 507 or equivalents.

COMD 540 - Principles of Audiology (3 Credits)
Basic anatomy and psycho-physics of hearing, the pathologies of hearing loss, introduction to identification procedures including organization of hearing conservation programs and practice in pure-tone audiometry, and impact of hearing loss on preschool and school-age children and educational, psychological, and medical aspects of habilitation.

COMD 560 - Observation of Speech Language Pathology (1-3 Credits)
Introduction to the clinical process through observation of various diagnostic reports and intervention programs included.

COMD 561 - Observation of Speech Language Pathology (1-3 Credits)
The language acquisition process in normal children, including the development of semantics, morphology, syntax, phonology, and pragmatics; American dialects and bilingualism.
Prerequisites: COMD 501 and COMD 507.

Cross-listed course: LING 570

Comp Sci & Comp Engr (CSCE)

CSCE 101 - Introduction to Computer Concepts (3 Credits)
History, application, and social impact of computers; problem-solving, algorithm development, applications software, and programming in a procedural language.
Carolina Core: ARP

CSCE 102 - General Applications Programming (3 Credits)
Introduction to systematic computer problem-solving and programming for a variety of applications.
Carolina Core: ARP

CSCE 145 - Algorithmic Design I (4 Credits)
Problem-solving, algorithmic design, and programming. Three lectures and two laboratory hours per week.
Prerequisite or Corequisite: MATH 111 or MATH 115.
Carolina Core: ARP

CSCE 146 - Algorithmic Design II (4 Credits)
Continuation of CSCE 145. Rigorous development of algorithms and computer programs; elementary data structures. Three lecture hours and two laboratory hours per week.
Prerequisites: C or better in CSCE 145.
Prerequisite or Corequisite: MATH 122 or MATH 141.

CSCE 190 - Computing in the Modern World (1 Credit)
An introduction to the field of computing: trends in computing technology, the profession, and careers; subdisciplines in computing, the nature of research and development.
Corequisite: CSCE 145, CSCE 204, CSCE 205, CSCE 206 or equivalent.

CSCE 201 - Introduction to Computer Security (3 Credits)
Introduction to the theory and practice of computer security, including security policies, authentication, digital certificates, firewalls, malicious code, legal and ethical issues, and incident handling.
Prerequisite or Corequisite: CSCE 101 or CSCE 102 or CSCE 145.

CSCE 204 - Program Design and Development (3 Credits)
Fundamental algorithms and processes used in business information systems. Development and representation of programming logic. Introduction to implementation using a high-level programming language.
Prerequisites: CSCE 101 or MGSC 290 or ITEC 264.

Cross-listed course: ITEC 204, MGSC 298

CSCE 205 - Business Applications Programming (3 Credits)
Introduction to computer applications in business. Programming exercises in COBOL.
Prerequisites: MGSC 290 or CSCE 101 or above.

CSCE 206 - Scientific Applications Programming (3 Credits)
Introduction to computer applications in science and engineering. Programming exercises in a high-level language.
Prerequisites: MATH 122 or MATH 141.

CSCE 207 - UNIX System Administration (3 Credits)
The Unix programming environment: I/O programming, Unix processes, fork, exec, pipes and signals, and tools.
Prerequisites: CSCE 145 or CSCE 206.

CSCE 209 - Special Topics in Computer Programming (1-4 Credits)
Programming and application development using selected programming languages. Course content varies and will be announced in the schedule of classes by title.

CSCE 210 - Computer Hardware Foundations (3 Credits)
Number representation, data formats, CPU and memory organization, assembly language, I/O and peripherals, computer networks.
Prerequisites: CSCE 145, CSCE 204, CSCE 205, CSCE 206, or CSCE 207.

CSCE 211 - Digital Logic Design (3 Credits)
Number systems, Boolean algebra, logic design, sequential machines.
Prerequisites: MATH 141.

CSCE 212 - Introduction to Computer Architecture (3 Credits)
Computer architecture, components, and organization; memory addressing; Input/Output; instruction sets; interrupts; assembly-language programming.
Prerequisites: CSCE 211 and either CSCE 145 or CSCE 206.
CSCE 215 - UNIX/Linux Fundamentals (1 Credit)
UNIX operating system, user-level system commands, and programming tools. UNIX scripting languages.
Prerequisites: CSCE 145.

CSCE 240 - Advanced Programming Techniques (3 Credits)
Pointers; memory management; advanced programming language structures: operator overloading, iterators, multiple inheritance, polymorphism, templates, virtual functions; Unix programming environment.
Prerequisites: CSCE 215, C or better in CSCE 146.

CSCE 242 - Client-Server Computing (3 Credits)
Prerequisites: C or better in CSCE 146.

CSCE 245 - Object-Oriented Programming Techniques (3 Credits)
Advanced object-oriented concepts and techniques; multiple inheritance; memory management; operator overloading; polymorphism; performance issues.
Prerequisites: C or better in CSCE 146.

CSCE 247 - Software Engineering (3 Credits)
Fundamentals of software design and development; software implementation strategies; object-oriented design techniques; functional design techniques; design patterns; design process; source control; testing.
Prerequisites: C or better in CSCE 146.

CSCE 274 - Robotic Applications and Design (3 Credits)
Design and control of robots. Interactions between robots, sensing, actuation, and computation.
Prerequisites: CSCE 146.

CSCE 304 - Applied Problem Solving and Programming (3 Credits)
Systematic problem definition, solution formulation, and computer implementation for business and related areas. Internet and database applications. Programming exercises in a high-level programming language.
Prerequisites: CSCE 204 or MGSC 298.

CSCE 311 - Operating Systems (3 Credits)
Operating system structure and function; process implementation, scheduling, and synchronization; memory management; security; naming protection; resource allocation; network file systems.
Prerequisites: CSCE 240; CSCE 210 or CSCE 212.

CSCE 313 - Embedded Systems (3 Credits)
Fundamentals of embedded systems: hardware components, software components, hardware/software interface design, and hardware/software co-design.
Prerequisites: CSCE 211, CSCE 212.

CSCE 317 - Computer Systems Engineering (3 Credits)
System-level modeling and evaluation of computer systems: requirements elicitation and specification, architectural design, reliability and performance evaluation, Markov modeling, life-cycle cost analysis, project management.
Prerequisites: CSCE 212, MATH 242, STAT 509.

CSCE 330 - Programming Language Structures (3 Credits)
Formal specification of syntax and semantics; structure of algorithms; list processing and string manipulation languages; statement types, control structures, and interfacing procedures.
Prerequisites: CSCE 240; MATH 174 or MATH 374 or MATH 574.

CSCE 350 - Data Structures and Algorithms (3 Credits)
Techniques for representing and processing information, including the use of lists, trees, and graphs; analysis of algorithms; sorting, searching, and hashing techniques.
Prerequisites: CSCE 240; MATH 174 or MATH 374 or MATH 574.

CSCE 355 - Foundations of Computation (3 Credits)
Basic theoretical principles of computing as modeled by formal languages, grammars, automata, and Turing machines; fundamental limits of computation.
Prerequisites: CSCE 211, CSCE 212, CSCE 350.

CSCE 390 - Professional Issues in Computer Science and Engineering (1 Credit)
Professional issues in the information technology professions; history and social context of computing; professional responsibilities; privacy; intellectual property; risks and liabilities of computer-based systems.
Carolina Core: VSR

CSCE 415 - Mainframe Systems (3 Credits)
Introduction to the large scale computer systems used by businesses to support thousands of simultaneous users and process millions of transactions.
Prerequisites: ITEC 352 or CSCE 240.

CSCE 416 - Introduction to Computer Networks (3 Credits)
Concepts and components of computer networks and the Internet; network applications; network protocol stack.
Prerequisites: CSCE 146.

CSCE 490 - Capstone Computing Project I (3 Credits)
Major team-based software design project to be undertaken in a student's final year of study; project planning, software requirements analysis, design, and specification. Written reports and oral presentations in a technical setting.
Prerequisites: CSCE 240, either ENGL 462 or ENGL 463.

Prerequisite or Corequisite: CSCE 350.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

CSCE 491 - Capstone Computer Engineering Project (3 Credits)
Advanced computer systems engineering. Team projects. Written reports and oral presentations in a technical setting.
Prerequisites: D or better in CSCE 240, CSCE 313, CSCE 611.

Graduation with Leadership Distinction: GLD: Research

CSCE 492 - Capstone Computing Project II (3 Credits)
Continuation of CSCE 490. Computer system implementation, testing, verification and validation of results. Written reports and oral presentations in a technical setting.
Prerequisites: CSCE 490.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research
CSCE 498 - Independent Study (1-3 Credits)
Individual investigation or study of special topics. At most three credits may be applied toward a degree. Approval of project proposal by instructor and department advisor.
Graduation with Leadership Distinction: GLD: Research

CSCE 500 - Computer Programming and Applications (3 Credits)
Concepts and properties of algorithms; programming exercises with emphasis on good programming habits. Credit may not be received for both CSCE 500 and CSCE 145. Open to all majors. May not be used for major credit by computer science and engineering majors.

CSCE 510 - System Programming (3 Credits)
System software such as command language interpreters, client-server applications, debuggers; mail systems, browsers, macroprocessors, and revision control systems; file systems, processes, threads, and interprocess communication.
Prerequisites: CSCE 215, CSCE 240.

CSCE 512 - System Performance Evaluation (3 Credits)
Measuring, modeling, analyzing, and predicting performance of computer systems and networks; bottleneck analysis; Markovian queuing systems and networks; use of operational and probabilistic models.
Prerequisites: CSCE 311, STAT 509 or STAT 515.

CSCE 513 - Computer Architecture (3 Credits)
Design methodology; processor design; computer arithmetic: algorithms for addition, multiplication, floating point arithmetic; microprogrammed control; memory organization; introduction to parallel architectures.
Prerequisites: CSCE 211, CSCE 212.

CSCE 515 - Computer Network Programming (3 Credits)
Computer networks and communication protocols; socket programming; interprocess communication; development of network software; case studies.
Prerequisites: CSCE 311.

CSCE 516 - Computer Networks (3 Credits)
Structure, design, and analysis of computer networks; ISO/OSI network architecture.
Prerequisites: STAT 509 or STAT 515.

CSCE 517 - Computer Crime and Forensics (3 Credits)
Structure, design, and analysis of computer networks; ISO/OSI network architecture.
Prerequisites: CSCE 215.

CSCE 518 - Ethical Hacking (3 Credits)
Fundamental principles and techniques of ethical hacking, including penetration testing life cycle, planning and scoping, identifying targets and goals, active and passive reconnaissance, enumeration and scanning, exploitation, post-exploitation, and results reporting.
Prerequisites: CSCE 215 or previous Linux/UNIX experience.

CSCE 520 - Database System Design (3 Credits)
Database management systems; database design and implementation; security, integrity, and privacy.
Prerequisites: CSCE 240 or GEOG 563.

CSCE 522 - Information Security Principles (3 Credits)
Threats to information resources and appropriate countermeasures. Cryptography, identification and authentication, access control models and mechanisms, multilevel database security, steganography, Internet security, and intrusion detection and prevention.
Prerequisites: CSCE 146; MATH 374 or MATH 174.

CSCE 526 - Service Oriented Computing (3 Credits)
Cooperative information systems and service-oriented computing. Techniques for achieving coordinated behavior among a decentralized group of information system components. Distributed databases, multiagent systems, conceptual modeling, Web services, and applications.
Prerequisites: CSCE 311.

CSCE 531 - Compiler Construction (3 Credits)
Techniques for design and implementation of compilers, including lexical analysis, parsing, syntax-directed translation, and symbol table management.
Prerequisites: CSCE 240.

CSCE 546 - Mobile Application Development (3 Credits)
Development of mobile applications, including user interface design for mobile, local and cloud data storage techniques, and application architectures.
Prerequisites: CSCE 240 or previous programming experience with one of the following programming languages (C/C++, Java, Swift, Python, Matlab, Javascript).

CSCE 547 - Windows Programming (3 Credits)
Object-oriented methods and tools for application programming with graphically interactive operating systems.
Prerequisites: CSCE 240.

CSCE 548 - Building Secure Software (3 Credits)
Prerequisites: CSCE 240.

CSCE 551 - Theory of Computation (3 Credits)
Basic theoretical principles of computing as modeled by formal languages and automata; computability and computational complexity
Prerequisites: C or better in CSCE 350 or MATH 300.

Cross-listed course: MATH 562

CSCE 552 - Computer Game Development (3 Credits)
Design and development of computer games, with emphasis on the technologies used. Hands-on development of computer games.
Prerequisites: CSCE 240, CSCE 350.

CSCE 555 - Algorithms in Bioinformatics (3 Credits)
Concepts, algorithms and tools for important problems in Bioinformatics, including nucleotide and amino acid sequence alignment, DNA fragment assembly, phylogenetic reconstruction, and protein structure visualization and assessment.
Prerequisites: CSCE 350.
CSCE 557 - Introduction to Cryptography (3 Credits)
Design of secret codes for secure communication, including encryption and integrity verification: ciphers, cryptographic hashing, and public key cryptosystems such as RSA. Mathematical principles underlying encryption. Code-breaking techniques. 
**Prerequisites:** C or better in CSCE 145 or MATH 241, and at least one of CSCE 355, MATH 300 or MATH 374.

**Cross-listed course:** MATH 587

CSCE 561 - Numerical Analysis (3 Credits)
Interpolation and approximation of functions; solution of algebraic equations; numerical differentiation and integration; numerical solutions of ordinary differential equations and boundary value problems; computer implementation of algorithms. 
**Prerequisites:** C or better MATH 520 or in both MATH 242 and MATH 344.

**Cross-listed course:** MATH 527

CSCE 564 - Computational Science (3 Credits)
Parallel algorithms; scientific visualization; techniques for solving scientific problems. 
**Prerequisites:** MATH 526, CSCE 146 or CSCE 207 or CSCE 500.

CSCE 565 - Introduction to Computer Graphics (3 Credits)
Graphics hardware; graphics primitives; two-dimensional and threedimensional viewing; basic modeling. 
**Prerequisites:** CSCE 240, MATH 526 or MATH 544.

CSCE 567 - Visualization Tools (3 Credits)
Scientific visualization tools as applied to sampled and generated data; methods for data manipulation and representation; investigation of visualization techniques. 
**Prerequisites:** CSCE 145 or CSCE 206 or CSCE 207.

CSCE 569 - Parallel Computing (3 Credits)
Architecture and interconnection of parallel computers; parallel programming models and applications; issues in high-performance computing; programming of parallel computers. 
**Prerequisites:** knowledge of programming in a high-level language; MATH 526 or MATH 544.

CSCE 571 - Critical Interactives (3 Credits)
Foundational techniques in multidisciplinary software development, specifically of applications designed to present sensitive, sometimes controversial, materials in ways to engender empathic awareness of the interactor. 
**Cross-listed course:** FAMS 581

CSCE 572 - Human-Computer Interaction (3 Credits)
Interdisciplinary approach to interaction design, user-centered design, human abilities, survey development, experimental study methodology, heuristic evaluations, usability testing, universal design, and accessibility. 
**Prerequisites:** Undergraduate or graduate standing in CSE or permission of the instructor.
Comparative Literature (CPLT)

CPLT 150 - Values and Ethics in Literature (3 Credits)
Analysis of major works of world literature focusing on values, ethics, and social responsibility.

Carolina Core: AIU, VSR

CPLT 270 - World Literature (3 Credits)
Selected masterpieces of world literature from antiquity to the present.
Cross-listed course: ENGL 270

Carolina Core: AIU

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CPLT 300 - What is Comparative Literature (3 Credits)
Introduction to ways of reading and comparing literatures drawn from diverse languages and cultures.
Prerequisites: any 200-level literature course.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CPLT 301 - Great Books of the Western World I (3 Credits)
European masterpieces from antiquity to the beginning of the Renaissance.
Cross-listed course: ENGL 390

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CPLT 302 - Great Books of the Western World II (3 Credits)
European masterpieces from the Renaissance to the present.
Cross-listed course: ENGL 391

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CPLT 303 - Great Books of the Eastern World (3 Credits)
Classical and contemporary poetry and prose of the Middle and Far East.
Cross-listed course: ENGL 392

Graduation with Leadership Distinction: GLD: Global Learning

CPLT 380 - Epic to Romance (3 Credits)
Comprehensive exploration of medieval and other pre-Renaissance literature using texts representative of the evolution of dominant literary forms.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 380

CPLT 381 - The Renaissance (3 Credits)
Literature of the Renaissance, in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 381

CPLT 382 - The Enlightenment (3 Credits)
Literature of the Enlightenment in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 382

CPLT 383 - Romanticism (3 Credits)
Literature of Romanticism, in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 383

CPLT 384 - Realism (3 Credits)
Literature of Realism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 384

CPLT 385 - Modernism (3 Credits)
Literature of Modernism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 385

CPLT 386 - Postmodernism (3 Credits)
Literature of Postmodernism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 386

CPLT 415 - Topics in Comparative Literary Relations (3 Credits)
Topics involving two or more national literatures. Topics to be announced in master schedule by title.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

CPLT 499 - Senior Thesis (3 Credits)
Graduation with Leadership Distinction: GLD: Research

CPLT 597 - Special Topics in Comparative Studies in Film and Media (3 Credits)
Topics in film and media from an international perspective. National cinematic traditions are compared and contrasted. May be repeated as content varies by title.

Graduation with Leadership Distinction: GLD: Global Learning

Counseling Education (EDCE)

EDCE 502 - Guidance Techniques for Classroom Teachers (3 Credits)
EDCE 503 - Family Counseling (3 Credits)
A comparative study of the major theories in the field of family counseling.

EDCE 507 - Educators in Industry (3 Credits)
The course is designed to provide counselors, teachers, and administrators with increased awareness of a wide variety of work experiences.

EDCE 510 - Introduction to Counseling (3 Credits)
Orientation to the profession of counseling including its historical, social, and cultural foundations. Declaration of the minor in counseling or admission to the Ed.S. in Counselor Education.

EDCE 520 - Wellness and Mental Health (3 Credits)
An overview of the characteristics of optimal holistic wellness and human functioning. Practical application of theoretically and empirically supported wellness models and interventions to enhance social, emotional, mental, physical, and spiritual well-being.

EDCE 555 - Theory and Practice of College Mentoring (3 Credits)
Emphasis on current professional approaches to college mentoring and development of leadership and mentoring skills. Students must participate in Minority Assistance Program. Upper division undergraduate standing or admission to a graduate program and consent of instructors.

EDCE 570 - Seminar in Counseling (3 Credits)
Declaration of the minor in counseling.
EDCE 600 - Communication Skills in Counseling (3 Credits)
Human relations principles applied to the counseling interview.

EDCE 650 - Counseling Student Athletes (3 Credits)
Issues facing student athletes regarding their personal and career development beyond athletics.
Cross-listed course: PEDU 660

EDCE 690 - Independent Study (1-3 Credits)

Criminal Justice (CRJU)

CRJU 101 - The American Criminal Justice System (3 Credits)
Survey of crime and societal responses to crime, including law enforcement, courts, corrections, and the juvenile justice system.

CRJU 202 - Research Methods in Criminology and Criminal Justice (3 Credits)
Introduction to the practice of social research in criminology and criminal justice settings.
Graduation with Leadership Distinction: GLD: Research

CRJU 203 - Criminal Procedure (3 Credits)
Overview of the constitutional restraints on the investigation, detention, prosecution and adjudication of criminal defendants. Coverage of Supreme Court decisions involving the 4th, 5th, and 6th Amendments to the U.S. Constitution.

CRJU 311 - Policing (3 Credits)
Current and historical perspectives on American policing.

CRJU 312 - Corrections (3 Credits)
Current and historical perspectives on incarceration and its alternatives.

CRJU 313 - Criminal Courts (3 Credits)
Structure and organization of the federal and state criminal court systems and personnel.

CRJU 314 - Criminal Law (3 Credits)
Origin and development of criminal law in America. Basic elements of crimes and defenses.

CRJU 322 - Drugs and Crime (3 Credits)
Overview of criminal justice system responses to illegal substances. Relationship between substance abuse and crime.

CRJU 323 - Violence in America (3 Credits)
Historical overview of violence in American society, including theoretical perspectives on the causes and prevention of violence.

CRJU 341 - Sociology of Crime (3 Credits)
Social factors in the development, identification, and treatment of criminals.
Cross-listed course: SOCY 353
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

CRJU 351 - Juvenile Delinquency (3 Credits)
Social factors in the development, identification, and treatment of delinquents.
Prerequisites: CRJU 101 OR SOCY 101.
Cross-listed course: SOCY 350
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

CRJU 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and Office of Academic Programs is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

CRJU 420 - Analyzing Homicide (3 Credits)
Relationships between patterns and trends in homicide, and theoretical explanations for why offenders engage in homicide.

CRJU 421 - Victimization (3 Credits)
Causes and consequences of criminal victimization and public policy responses to victimization issues.

CRJU 422 - Alternatives to Incarceration (3 Credits)
Correctional alternatives to imprisonment including probation, parole, and various community correctional programs.

CRJU 423 - Street Gangs: Structure, Activity, and Response (3 Credits)
Course covers the theoretical and empirical work on gangs, gang members, and gang activity along with insight on these issues from a practitioner perspective. It then examines the variety of policy responses from government and community organizations.

CRJU 424 - Criminal Justice Intelligence (3 Credits)
An investigation of the motivations to commit crime. The course presents profiles of the targets of crimes and provides strategic and tactical assessments of police investigations and intelligence.

CRJU 425 - Hate Crimes (3 Credits)
An examination of the causes and responses to hate crimes. The course also provide a foundation for understanding crimes motivated by racial, gender, religious, disability, and sexual orientation biases.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

CRJU 426 - Criminal Justice and Mental Health (3 Credits)
Interface between the mental health sciences and the criminal justice system.

CRJU 430 - Communities and Crime (3 Credits)
Relationship between criminality and community characteristics, with particular attention to how variation in community structure, organization, and culture impacts crime.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

CRJU 440 - Homeland Security and Terrorism (3 Credits)
The nature of terrorism; its history; its methodology; and its application to criminological theory.

CRJU 485 - Selected Topics in Criminal Justice Policy (3 Credits)
Public policy responses to crime, its formation, and its impact on society. Individual topics to be announced by title. May be repeated with consent of advisor.

CRJU 491 - Special Topics (3 Credits)
Topics in criminology and criminal justice. Individual topics to be announced by title. May be repeated once with consent of advisor.

CRJU 494 - Internship (3 Credits)
A supervised experiential course in a criminal justice agency. Contract approved by instructor, advisor, and Office of Academic Programs is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity
Criminal Justice (LCRJ)

LCRJ 271 - Criminal Investigation (3 Credits)
Fundamentals of criminal investigation theory and history; crime scene to courtroom, with emphasis on techniques appropriate to specific crimes.

LCRJ 272 - Criminal Law and Court Procedure (3 Credits)
An introduction to basic criminal law and the mechanics of the courts.

CRJU 510 - Critical Incident Management for Criminal Justice (3 Credits)
Leadership and management strategies for criminal justice agencies during critical incidents and disasters including multi-agency and multi-jurisdictional response.

CRJU 512 - Information-Based Management in Criminal Justice (3 Credits)
The collection and use of information and data-driven analysis in criminal justice organizations.

CRJU 535 - Inmates and Prisons (3 Credits)
Examination of issues affecting prisons and the inmates confined within them. Specific topics of study will include the philosophy and goals of imprisonment, institutional crowding, inmate rights, inmate adaptation, and individual and collective misconduct.

CRJU 551 - Adolescent Mentoring (3 Credits)
Application of skills and theories of adolescent mentoring taught in the classroom to a supervised, structured mentoring field experience.

Cross-listed course: WGST 551

CRJU 554 - Women and Crime (3 Credits)
Impact of gender-based relations on crime and the criminal justice system.

Cross-listed course: WGST 554
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

CRJU 558 - Crime Over the Life Course (3 Credits)
Development of criminal and delinquent behavior over time.

CRJU 563 - Race, Crime, and Criminal Justice (3 Credits)
An historical overview of the intersection between issues of race, crime, and justice. The impact of the criminal justice system on minority groups.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

CRJU 565 - Organized Crime (3 Credits)
Origins and modern day activity of organized crime in the United States and internationally will be investigated. Attention is given to problems of criminal activity and the present day transnational character of criminal organizations.

CRJU 575 - The Death Penalty (3 Credits)
Overview of the history and evolution of the death penalty. Identification of key legal developments in death penalty jurisprudence.

CRJU 577 - Law and Criminal Justice Policy (3 Credits)
Legal and policy responses to crime and criminal justice issues.
Prerequisites: CRJU 313 or CRJU 314.

CRJU 582 - Computer Applications in Criminal Justice (3 Credits)
Computing, database systems, and software applications in research and professional practice.

CRJU 591 - Selected Topics in Criminal Justice (3 Credits)
A seminar for advanced students. Individual topics to be announced by title. May be repeated once with the consent of the advisor.

Curriculum Studies (EDCS)

EDCS 625 - Solving Practical Problems in School Curriculum (3 Credits)
An introduction to current and promising designs and approaches to curriculum development from grades K-12.

EDCS 690 - Independent Study (1-3 Credits)

Dance (DANC)

DANC 101 - Dance Appreciation (3 Credits)
An eclectic survey of various dance forms including primitive, historic, ballet, modern, and Broadway musical.

Carolina Core: AIU

DANC 102A - Ballet Technique I (2 Credits)
A beginning study of ballet with emphasis on alignment, classical historical traditions, and combinations or movement. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 102B - Ballet Technique I (2 Credits)
A beginning study of ballet with emphasis on alignment, classical historical traditions, and combinations or movement. This course is for non dance majors. May be repeated up to six times for credit.

DANC 103 - The Dancer's Body (3 Credits)
Anatomy and movement analysis for dancers.

DANC 110A - World Dance I (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 110B - World Dance I (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for non dance majors. May be repeated up to six times for credit.

DANC 111A - World Dance II (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 111B - World Dance II (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for non dance majors. May be repeated up to six times for credit.

DANC 112A - Contemporary Dance Technique I (2 Credits)
An introduction to modern dance with the beginning practice of movement technique. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 112B - Contemporary Dance Technique I (2 Credits)
An introduction to modern dance with the beginning practice of movement technique. This course is for non dance majors. May be repeated up to six times for credit.

DANC 113A - World Dance II (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 113B - World Dance II (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for non dance majors. May be repeated up to six times for credit.
DANC 113B - World Dance II (2 Credits)
World Dance is dance experience in diverse world dance forms. This course is for non dance majors. May be repeated up to six times for credit.

DANC 150 - Introduction to Dance (3 Credits)
Introduction to dance as art, communication, and cultural expression as it applies to a career in dance. Open to non-majors.

DANC 160A - Dance Improvisation and Composition (3 Credits)
An introductory course on dance composition and the creative process. Exploration and improvisation of different dance forms; specific choreographic tools. This course is for dance majors and minors. May be repeated up to six times for credit.

DANC 160B - Dance Improvisation and Composition (3 Credits)
An introductory course on dance composition and the creative process. Exploration and improvisation of different dance forms; specific choreographic tools. This course is for non dance majors. May be repeated up to six times for credit.

DANC 170 - Ballroom Dance I (2 Credits)
Introduction of six major dances (Foxtrot, Waltz, Tango, Cha Cha, Swing, and Rumba) to students with no dance experience. The emphasis will be on learning dance figures and patterns.

DANC 171 - Ballroom Dance II (2 Credits)
Intermediate steps will include challenging choreography or patterns. The emphasis in technique will be based on developing speed and elegance while dancing complex patterns.
Prerequisites: DANC 170 or equivalent.

DANC 177 - Dance Company I (1 Credit)
This course is designed for rehearsals leading to dance performances; and including student choreography, on stage productions, the dance touring ensemble and components of dance production. Repeat seven times.

DANC 178 - Jazz Dance Technique I (2 Credits)
A beginning level class focusing on coordination, rhythm, alignment, jazz vocabulary, and jazz dance positions. May be repeated up to six times for credit.

DANC 202A - Ballet Technique II (1-2 Credits)
Second level of classical ballet technique facilitating skill in allegro and adagio work. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 102A or equivalent.

DANC 202B - Ballet Technique II (1-2 Credits)
Second level of classical ballet technique facilitating skill in allegro and adagio work. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 102B or equivalent.

DANC 204 - Pointe I (1-2 Credits)
Pointe technique and skills on pointe, an extension of ballet technique at the foundational level. May be repeated four times.
Prerequisites: DANC 202 or equivalent.

DANC 212A - Contemporary Dance Technique II (1-2 Credits)
A second level of contemporary technique, with emphasis on skill refinement and aesthetic elements. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 112A or equivalent, placement audition or permission of instructor.

DANC 212B - Contemporary Dance Technique II (1-2 Credits)
A second level of contemporary technique, with emphasis on skill refinement and aesthetic elements. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 112B or equivalent, placement audition or permission of instructor.

DANC 260 - Laban Movement Analysis (3 Credits)
An examination of Laban Movement analysis – a language for understanding, observing, describing and notating all forms of movement. Experiential, analytical and performance teaching methods will be used.
Prerequisites: DANC 160.

DANC 270 - Dance Education I: Introduction to Dance Education (2 Credits)
An overview of state and national standards, theoretical and philosophical perspectives that shape current practices for teaching dance in K-12 environments, and arts/dance education advocacy. Not open to freshmen. It is recommended that students have completed at least three semesters of technique.
Prerequisites: DANC 150 and DANC 160A.

DANC 275 - Pilates I (2 Credits)
Innovative system of exercises for the mind and body. Teaching posture, body awareness, and easy graceful movement at a beginner’s level.

DANC 278 - Jazz Dance Technique II (2 Credits)
An intermediate level class focusing on coordination, rhythm, alignment, jazz vocabulary, jazz dance positions, and expanded knowledge of theatrical jazz dance. May be repeated up to six times for credit.
Prerequisites: DANC 178.

DANC 281 - Dance History I (3 Credits)
Overview of the development of dance through the 19th century.

DANC 282 - Dance History II (3 Credits)
Development of dance from the 20th century to the present.
Prerequisites: DANC 281.

Graduation with Leadership Distinction: GLD: Global Learning
DANC 300 - Music for Dancers (3 Credits)
Rhythmic analysis, reading and metric patterns, construction and use of scores from musical theatre to symphonic orchestration with exercises to enhance the knowledge of relationship between dance and music.

DANC 302A - Ballet Technique III (1-2 Credits)
Third level of classical ballet technique. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 202A or equivalent.

DANC 302B - Ballet Technique III (1-2 Credits)
Third level of classical ballet technique. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 202B or equivalent.

DANC 303 - Pointe III (1-2 Credits)
Pointe technique and skills on pointe, an extension of ballet technique at the intermediate level. Study and execution of female variations from classical repertory. May be repeated four times.
Prerequisites: DANC 202 or equivalent.
DANC 304 - Intermediate Tap Dance (1 Credit)
Advanced fundamentals of tap dance, including intermediate/advanced rhythmic structure and incorporation of alignment and style.
Prerequisites: permission of instructor.

DANC 307 - West African Dance I (3 Credits)
The history and practice of indigenous West African dance.

DANC 310 - Dance Analysis and Criticism (3 Credits)
Theoretical practices and cultural perspectives of dance making.
Prerequisites: DANC 281 and DANC 282.

DANC 312A - Contemporary Dance Technique III (1-2 Credits)
A third level technique with refinement skills, and complex combinations. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 212A or equivalent.

DANC 312B - Contemporary Dance Technique III (1-2 Credits)
A third level technique with refinement skills, and complex combinations. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 212B or equivalent.

DANC 360 - Choreography I (3 Credits)
An intermediate level choreography and composition course designed to create and adapt work in different dance forms in modern, jazz, and ballet.
Prerequisites: DANC 260; recommend students to have completed at least three semesters of technique.

DANC 370 - Dance Education II: Creative Dance (3 Credits)
An introduction to motor development, movement concepts, elements, and skills that contribute to lesson planning, instruction, and assessment of creative dance in K-12 education. It is recommended that students have completed at least three semesters of ballet and contemporary technique and world dance.
Prerequisites: DANC 270 and 360.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

DANC 375 - Pilates II (2 Credits)
Innovative system of exercises for the mind and body. Teaching posture, body awareness, and easy graceful movement at an intermediate level.
Prerequisites: DANC 275 or equivalent.

DANC 377 - Historic Dance (3 Credits)
A course open to all students interested in gaining knowledge of early dances from the 15th Basse, Pavanne and Gaillarde of the Renaissance era to the Baroque dances from the court of Louis XIV.

DANC 378 - Jazz Dance Technique III (1-2 Credits)
Advanced-level jazz dance technique. May be repeated up to six times for credit.

DANC 380 - Movement and Dance for Musical Theatre (3 Credits)
Styles of movement and dance in musical theatre from the '20s, '30s, and '40s to modern contemporary musical theatre. Choreographing for musicals, cultural forms of dance, staging for vocal pieces.

DANC 381 - Dance History (3 Credits)
A survey of dance from ethnic and social to professional dance, from the time of the Greeks through the twentieth century.

DANC 382 - Body Conditioning/Gyrokinetics Method (2 Credits)
Body conditioning technique designed to increase strength, flexibility, and coordination, enhancing the dance students' performance ability and body awareness.

DANC 385 - Men's Ballet (1 Credit)
Study of the art of classical ballet for men with increased emphasis on facilitating skill in allegro and adagio work specific to male technique.
Prerequisites: 4 semesters of ballet or equivalent.

DANC 390 - Dance Studio Operation (3 Credits)
Advanced training methods and techniques in all forms of dance. Emphasis on recent research in dance curriculum and operational technique. For experienced dance teachers.

DANC 399 - Independent Study and Research (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

DANC 402A - Ballet Technique IV (1-2 Credits)
Intensive fourth level of classical ballet technique. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 302A or equivalent.

DANC 402B - Ballet Technique IV (1-2 Credits)
Intensive fourth level of classical ballet technique. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 302B or equivalent.

DANC 403 - Pointe Variations for Intermediate/Advanced Ballet (1-2 Credits)
Pointe technique, an extension of ballet technique skills on pointe. Study and execution of female variations from classical repertory. May be repeated four times.

DANC 407 - West African Dance II (3 Credits)
Study of the development of West African music and dance, emphasizing cultural, social, and physical influences. Exploration of the relationship between dancer and the drummer at an intermediate level.
Prerequisites: DANC 307.

DANC 412A - Contemporary Dance Technique IV (1-2 Credits)
Intensive advanced level contemporary dance technique. This course is for dance majors and minors. May be repeated up to six times for credit.
Prerequisites: DANC 312A or equivalent.

DANC 412B - Contemporary Dance Technique IV (1-2 Credits)
Intensive advanced level contemporary dance technique. This course is for non dance majors. May be repeated up to six times for credit.
Prerequisites: DANC 312B or equivalent.

DANC 420 - Teaching Methods of Ballet (3 Credits)
The foundations of ballet technique are analyzed systematically. Students will learn to teach ballet technique and organize course work for all levels. Recommend students to have completed at least four semesters of ballet technique.

DANC 421 - Teaching Methods of Contemporary Dance (3 Credits)
The foundations of contemporary dance technique are analyzed systematically. Students will learn to teach contemporary dance technique and organize course work for all levels. Recommend students to have completed at least four semesters of contemporary dance technique.
DANC 440 - Pas de Deux (Partnering) (1-2 Credits)
Study of the art of classical ballet pas de deux for men and women. Special attention will include adagio work from classical ballet repertory and contemporary dance.
Prerequisites: DANC 302 or equivalent.

DANC 450 - Musical Theatre Workshop (2 Credits)
Intensive musical theatre training in areas of song interpretation, musical theatre, dance, voice and acting.
Cross-listed course: MUSC 450, THEA 450

DANC 460 - Choreography II (3 Credits)
An intermediate level choreography course to further examine choreographic construction methods.
Prerequisites: DANC 160 and three semesters of technique courses.

DANC 470 - Dance Education III: Dance Pedagogy for Middle and High School (4 Credits)
Intensive study of content and strategies for teaching dance in middle and high school with particular emphasis on curriculum development, instruction, and assessment. Not open to freshmen or sophomores. Minimum of 90 hours in program of study.
Prerequisites: DANC 270, DANC 370, five semesters of ballet, five semesters of modern dance.

Graduation with Leadership Distinction: GLD: Community Service

DANC 471 - Synthesis of Dance Education Constructs (pre-internship seminar) (1 Credit)
Seminar allows students to synthesize content and skills from all previous dance and education coursework in conjunction with their student teaching experience.
Corequisite: DANC 479.

DANC 475 - Inner Mastery Through Movement (3 Credits)
A mind/body integration course designed for performing artists.

DANC 476 - Production Design for Dance (3 Credits)
Technical theatre functions, the structure and purpose of production design, and stage production as it relates to the whole of dance and theatrical performance.

DANC 478 - Integrated Approaches in Dance Education (5 Credits)
Study and application of strategies for teaching diverse learners, implementation of instructional technology in the dance classroom, and dance/arts integration.

Graduation with Leadership Distinction: GLD: Community Service

DANC 479 - Teaching Internship in Dance Education (12 Credits)
Practical demonstration of pedagogical knowledge, skill, and dispositions necessary to effectively teach in K-12 dance education as defined and measured by CAEP and ADEPT standards.
Prerequisites: Must have fulfilled all other program requirements except DANC 471 (and DANC 479), be admitted to the professional program, and approved for student teaching.
Corequisite: DANC 471.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

DANC 482 - Body Conditioning/Gyrokinesis Method II (1 Credit)
Body conditioning technique that simultaneously stretches and strengthens the body at an intermediate level. Gyrokinesis teaches complete freedom of movement through exercises synchronized with corresponding breathing patterns enhancing aerobic and cardiovascular stimulation and promoting neuromuscular awareness. Restricted to dance majors/minors only.
Prerequisites: DANC 382.

DANC 490 - Senior Capstone Dance Project (3 Credits)
Culmination of the performance/choreography dance emphasis. Senior project encompassing a choreographic work or research thesis.
Prerequisites: DANC 160 and DANC 360.

Graduation with Leadership Distinction: GLD: Research

DANC 500 - Selected Topics in Dance (1 Credit)
A series of courses, each lasting one-third of a semester. Topics and required courses are announced in the class schedule for each semester.

DANC 573 - Dancer's Workshop (1 Credit)
Individual advanced training in movement, improvisation, flexibility, and precision in dance styles including modern and ballet.
Prerequisites: graduate standing or three credits in dance.

DANC 577 - Dance Performance (3 Credits)
Rehearsal, choreographic analysis, and dance performance. All components of dance production—including music, costume, lighting, and scenery—will be considered.
Cross-listed course: PEDU 577

DANC 586 - The Articulate Body (3 Credits)
Theoretical and experimental exploration of the major body systems and development movements to bring more articulation to the body and more awareness and physical ease in performance.
Cross-listed course: THEA 586

DANC 599 - Special Topics in Dance (3 Credits)
Reading and research on selected topics. Course content varies and will be announced in the schedule of classes by title. May be repeated once as topics vary.

Early Childhood Educ (EDEC)

EDEC 201 - Inquiry into Early Childhood Education (3 Credits)
Inquiry into the roles, programs, history, and culture trends in early childhood education.

EDEC 250 - Play and Early Learning (3 Credits)
Theory and practice related to children's play and early learning in family, community, and educational settings.

EDEC 336 - Culturally Relevant Pedagogy in Early Childhood Classrooms (3 Credits)
A study of the theoretical and practical foundations of effective teaching in diverse classroom environments. Ethnicity, gender, social class, religion and other issues are considered from multiple perspectives.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

EDEC 340 - The Young Child: Development, Care and Education (Birth to 3 years) (3 Credits)
Infants’ and toddlers’ development and care from an ecological perspective. Assessment of children in various settings is emphasized.
Corequisite: EDEC 340P.
EDEC 340P - The Young Child: Development, Care and Education (Birth to 3 years) Practicum (1 Credit)
Practicum in infants’ and toddlers’ development and care observed and assessed from an ecological perspective. Includes service learning.
Corequisite: EDEC 340.

EDEC 342 - The Young Child: Development, Care and Education (3-8 years) (3 Credits)
Development of young children and its relationship to appropriate practice and curriculum with an emphasis on mathematics, science, and social studies.
Prerequisites: EDEC 340 and EDEC 340P.
Corequisite: EDEC 342P, EDEC 344, EDEC 347 and EDRD 345.

Graduation with Leadership Distinction: GLD: Research
EDEC 342P - The Young Child: Development, Care and Education (3-8 years) Practicum (3 Credits)
Practicum in development, assessment, and education of young children with an emphasis on mathematics, science, and social studies.
Prerequisites: EDEC 340 and 340P.
Corequisite: EDEC 342, EDEC 344, EDEC 347 and EDRD 345.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
EDEC 344 - Supporting Linguistic Pluralism Across Content Areas (3 Credits)
Introduction to issues, ideas, practices and policies in support of learning and teaching in multilingual classrooms, Pre-K to grade 12 for undergraduate early childhood education majors. Early Childhood Majors Only.
Corequisite: EDEC 342, EDEC 342P, EDEC 347 and EDRD 345.

EDEC 347 - Community of Learners and Classroom Management in Early Childhood (3 Credits)
Methods of building a community of learners including child guidance and group management that foster the development of self-control and learning.
Corequisite: EDEC 342, EDEC 342P, EDEC 344 and EDRD 345.

EDEC 441 - Teaching Mathematics in Early Childhood (3 Credits)
Methods and materials in teaching and assessment in early childhood mathematics (prekindergarten-grade 3). Admission to Internship I.
Corequisite: EDEC 443.

EDEC 442 - Teaching Science in Early Childhood Education (3 Credits)
The study and practice of science education for pre-school and primary students focusing on appropriate content, goals and methods. Admission to internship in early childhood education.
Corequisite: EDEC 443.

EDEC 443 - Internship in Integrated Curriculum in Early Childhood Education (4 Credits)
Internship in developmentally and culturally appropriate content and pedagogy in language and literacy, mathematics, science, social studies, and fine arts for young children through grade 3. Admission to internship in early childhood education.
Corequisite: EDEC 441, EDEC 442 and EDRD 445.

EDEC 444 - Teaching Social Studies to Early Childhood Education (3 Credits)
The study and practice of Social Studies education for undergraduate majors in early childhood education. Early Childhood Majors Only.

EDEC 492 - Internship in Curriculum, Assessment, Teaching, and Professional Roles (9 Credits)
Internship for practice in classrooms appropriate to the level of certification sought (early childhood) related to professional roles. Admission to the Professional Program in Early Childhood Education.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
Experiential Learning: Experiential Learning Opportunity
EDEC 510 - Parent/Family Dynamics in Early Childhood Education (3 Credits)
Principles, practices, and content of family dynamics, including practicum/service learning.
Graduation with Leadership Distinction: GLD: Community Service
EDEC 540 - The Young Child: Behavior and Development in Early Childhood (3 Credits)
Service-learning and seminar experiences addressing intellectual, physical, social, and emotional development, prenatal through grade three, within an ecological context. Child’s critical thinking, creative expression, and diagnosis/assessment emphasized.
EDEC 546 - Education of Young Children: An Ecological Approach (3 Credits)
An ecological study with emphasis on home-school relations, parent involvement, and community resources. Multicultural perspectives and needs of exceptional children addressed.
Corequisite: EDEC 469.

EDEC 547 - Field Problems: Teaching Mathematics Using Manipulative Materials, Grades K-3 (3 Credits)
Instructional approaches and materials for teaching elementary school mathematics, grades K-3.
EDEC 570 - Internship in Environments for Teaching and Learning (3 Credits)
Internship for practice in classrooms appropriate to early childhood education related to curriculum design and assessment. Admission to the professional program in early childhood education.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
EDEC 591 - Seminar on Teaching in Early Childhood (3 Credits)
Exploration of the principles and theories about teaching and learning as they apply to early childhood education in the context of schools in democratic societies.
Prerequisites: admission to internship in early childhood education.
Corequisite: EDTE 590A, EDTE 590B, and EDTE 590C.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research
EDEC 608 - Parent Involvement in Early Childhood Education (3 Credits)
Analysis of programs and practices for involving parents in early childhood educational settings. Emphasizes objectives, methods, techniques, and materials for program development. Community resources for supporting programs for children in various instructional settings.
EDEC 690 - Independent Study (1-3 Credits)
Economics (ECON)

ECON 123 - The American Economy (3 Credits)
Basic concepts, institutional foundations, structure of the private and public sector, labor markets; major economic problems.

ECON 221 - Principles of Microeconomics (3 Credits)
The study of supply and demand, pricing and cost concepts, firm and consumer decision-making, market structure, and government policies.

ECON 222 - Principles of Macroeconomics (3 Credits)
The study of gross domestic product, business cycles, economic growth, inflation, unemployment, and monetary and fiscal policy.

ECON 223 - Introduction to Economics (3 Credits)
Introduction to economics principles for non-majors. Basics of supply and demand and government and monetary policy are covered in a non-technical manner. Not open to business or economics students. Credit not granted for both ECON 223 and ECON 221 or ECON 222.

ECON 224 - Introduction to Economics (3 Credits)
The study of supply and demand, markets, household and firm decision-making, gross domestic product, inflation, unemployment, and government policies. Open to all students except business administration and economics majors.

ECON 301 - Money and Banking (3 Credits)
The role of money in the market economy. Commercial banks, the Federal Reserve System, and monetary policy. Cannot be used to satisfy major requirements.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 303 - The International Economy (3 Credits)
Survey of international economic issues and institutions, including trade and protectionism, global and regional trade agreements, trade balances and exchange rates, Japan, NAFTA, and the European Union.
Prerequisites: ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 311 - Issues in Economics (3 Credits)
The nature and causes of major economic problems facing the nation and its communities, and policy alternatives designed to solve them. The philosophy and methodology of economics in social problem solving.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 321 - Intermediate Microeconomic Theory (3 Credits)
Analysis of the economic behavior of households and firms. Production, consumption, price determination, and the degree of competition in markets.
Prerequisites: ECON 221 and ECON 222, or ECON 224, MATH 122 or MATH 141.

ECON 322 - Intermediate Macroeconomic Theory (3 Credits)
Analysis of the national economy as a whole. Money, output, employment, inflation, and international economic linkages.
Prerequisites: ECON 221 and ECON 222, or ECON 224, MATH 122 or MATH 141.

ECON 329 - American Economic History (3 Credits)
Growth and development of the American economy; applications of economic theory to economic history.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 363 - Business Finance (3 Credits)
The procurement and management of wealth by privately owned profit-seeking enterprises.
Prerequisites: ECON 221, ACCT 225, and 3 hours of statistics at the 200-level.

ECON 364 - Financial Institutions (3 Credits)
A study of the functions and operations of financial institutions and their relationships to the commercial banking system and the general economy. Attention is devoted to savings institutions, insurance companies, rural and urban real estate credit, consumer credit, and associated topics.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 379 - Government Policy Toward Business (3 Credits)
An analysis of public policy toward business in the United States. Emphasis is on the desirability of various policies in light of their consequences for the general welfare.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 399 - Independent Study (1-15 Credits)
Contract approved by instructor, advisor, and undergraduate division head is required.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning

ECON 402 - Money, Income, and Prices (3 Credits)
A study of monetary standards, monetary theory, monetary policy, and the mechanism of international payments. Attention is devoted to questions of monetary problems, employment, and fiscal policy.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 406 - Labor Economics (3 Credits)
A study of labor market institutions, trends in labor market activity, and the effects of government policy on the labor market. (Not open to majors in economics.)
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 408 - History of Economic Thought (3 Credits)
A survey of economics from the ancient philosophers to the present; with emphasis on the mercantilist, physiocratic, classical, Marxian, Austrian, neo-classical, and institutional schools of economics.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 415 - Economics of American Industry (3 Credits)
A study of the structure of selected American industries, of the development and concentration of economic power in the American economy, and of public policy toward industry.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 420 - Business Applications of Economic Forecasting (3 Credits)
Analysis of business cycles and applications of forecasting techniques to project and interpret economic trends.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 421 - Engineering Economics (3 Credits)
Decision making with respect to capital goods, with emphasis on such decision making in governmental activities and public utilities. Intended primarily for engineering students, the course emphasizes the types of investment decisions that engineers are often called upon to make.
ECON 436 - Introductory Econometrics (3 Credits)
The use of statistical techniques to analyze economic relationships. The emphasis is on the application of linear regression to real-world economic data.
Prerequisites: ECON 224, or ECON 221 and ECON 222; MGSC 291 or STAT 201; and MATH 122 or MATH 141.

Carolina Core: ARP
ECON 476 - Foundations of Capitalism (3 Credits)
Examines the foundations of capitalism and why it has prevailed over alternative systems. Topics include the justification of private property, distribution of wealth, profit motive, source of wealth creation, and others.
Prerequisites: ECON 211 and ECON 222.

ECON 499 - Internship in Economics (1-6 Credits)
Supervised work experience of at least nine hours per week, to include one class meeting a month and individual consultation. Contract approval by instructor, advisor, and department chair is required. Cannot be used to satisfy major requirement.
Prerequisites: C or better in both ECON 321 and ECON 322, and cumulative GPA of 2.75.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
ECON 500 - Urban Economics (3 Credits)
An analysis of economic forces affecting urbanization and the economic processes influencing urban form and structure. Spatial concepts are considered in addition to traditional micro-economic and macro-economic concepts. Topic coverage includes: the economic origin of cities; urban functions and the urban economic base; land-use structure and urban form, and urban efficiency.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 503 - International Trade Economics (3 Credits)
Theory of international specialization, commercial policy, customs unions, and the effects of trade liberalization and protectionism; economic growth and multinational enterprises.
Prerequisites: ECON 321.

Graduation with Leadership Distinction: GLD: Global Learning
ECON 504 - International Monetary Economics (3 Credits)
Exchange rate and balance of payments determination; purchasing-power parity; optimum currency areas, absorption, elasticity, monetary approaches, spot- and forward-exchange markets.
Prerequisites: ECON 322.

Graduation with Leadership Distinction: GLD: Global Learning
ECON 505 - International Development Economics (3 Credits)
Economic theories of growth in developing countries. Use of factor resources; role of social and economic institutions; use of financial trade policies for growth.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning
ECON 506 - Labor Economics and Labor Markets (3 Credits)
Economics of labor demand, labor supply, wage determination in competitive markets, migration, discrimination, unemployment, and labor unions. Theoretical models and empirical knowledge will be considered.
Prerequisites: ECON 221 and ECON 222, or ECON 224; ECON 321.

ECON 507 - Comparative Economic Systems (3 Credits)
An analysis of the organization and operation of the world's major economic systems.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Graduation with Leadership Distinction: GLD: Global Learning
ECON 508 - Law and Economics (3 Credits)
Economic analysis and interpretation of the law. The economic effect of current law and optimal design of law to meet social objectives.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 509 - Economics of Sustainable Development (3 Credits)
Exploration of the basic theory and practice of sustainable economic development. Topics include: environmental legislation, global agreements, sustainable development indicators, and economic strategies and methods to promote environmentally sound development.
Prerequisites: C or better in the following ECON 221 and ECON 222; or ECON 224; MATH 122.

Graduation with Leadership Distinction: GLD: Community Service
ECON 510 - Experimental Economics (3 Credits)
Exploration of the basic theory and techniques of experimental economics. Topics include: basic game theory, experimental design, and elements of behavioral economic thought.
Prerequisites: C or higher in ECON 321.

ECON 511 - Senior Seminar in Economics (3 Credits)
Philosophy and methodology of economics, perspectives on theory and empiricism, economic policy, individualized guided research.
Prerequisites: ECON 321, ECON 322, and ECON 436 with grade of C or higher.

ECON 514 - The Economics of Terrorism (3 Credits)
Focuses on the following aspects of terrorism: (1) its causes/determinants (historical, social, cultural, economic, political, and religious determinants); (2) the organizational and funding structure of terrorist groups; (3) the tactics and weapons of terrorist groups; (4) mobilization and recruitment within terror networks; and (5) counterterrorism methods. Restricted to: Business Majors and Economics Arts and Sciences Majors.
Prerequisites: C or better in ECON 321.

ECON 515 - Industrial Organization (3 Credits)
This course uses the tools of microeconomics and game theory to examine how firms compete and competition's impact on industry performance. Topics include: price discrimination, product differentiation, and oligopoly behavior.
Prerequisites: ECON 321.

ECON 516 - Political Economy (3 Credits)
This course covers fundamental models of collective decision making, studies their empirical relevance, and considers interactions between the economy and politics.
Prerequisites: C or better in ECON 221 and ECON 222 or C or better in ECON 224.

ECON 523 - Introduction to Mathematical Economics (3 Credits)
Mathematical formulation of economic theories; the use of mathematics in the development and demonstration of economic relationships.
Prerequisites: ECON 221 and ECON 222, or ECON 224; MATH 122, MATH 141, or the equivalent.
ECON 524 - Essentials of Economics (3 Credits)
A course designed to acquaint the student with the principles of operation of the American economic system. A survey course for social studies teachers in secondary schools.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 526 - Managerial Economics (3 Credits)
A study of the application of the economic theory of profits, competition, demand, and costs to analysis of problems arising in the firm and in decision making. Price policies, forecasting, and investment decisions are among the topics considered.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 530 - The Economics of Education (3 Credits)
Investment in human capital; the economic value of schooling; internal efficiency of schools; faculty compensation; equity and efficiency of school finance systems; financing higher education.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 531 - Health Economics (3 Credits)
Applications of economic analysis to health care. Structure and behavior of health-care markets. Description of health care policy issues.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 548 - Environmental Economics (3 Credits)
An analysis of the economic aspects of environmental decay, pollution control, and natural resource use. Analysis of the ability of the market system to allocate resources efficiently when economic activity is accompanied by environmental damage. Discussion of alternative public policy approaches to pollution control and natural resource conservation.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Cross-listed course: ENVR 548

ECON 555 - Game Theory in Economics (3 Credits)
Game theory as used to understand decision making in business, economics, politics and other real-world environments. Topics covered include: basic terminology; strategic, extensive, and combinatorial models; and equilibrium strategy.
Prerequisites: ECON 321 or MATH 141 and STAT 201 or C or higher in STAT 206.

ECON 562 - Public Finance (3 Credits)
Theory and practice of taxation: public revenue, expenditure, and debt.
Prerequisites: C or higher in ECON 321.

ECON 589 - Topics in Economics (1-3 Credits)
Individual topics to be announced with title.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 594 - Introduction to Econometrics (3 Credits)
Statistical and economic tools applied to analysis of business and economic problems with the aid of computers.
Prerequisites: ECON 221 and ECON 222, or ECON 224; MGSC 291 or STAT 201, MATH 122 or MATH 141.

ECON 621 - Survey of Contemporary Economic Theory (3 Credits)
Neo-classical value and distribution theory combined with income and employment theory.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 690 - Quantitative Foundations for Business and Economics I (3 Credits)
Calculus and classical optimization methods applied to problems in business and economic analysis; matrices, derivatives, and integrals in the analysis of both univariate and multivariate business and economic models.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 691 - Quantitative Foundations for Business and Economics II (3 Credits)
Statistics and probability theory applied to problems of business and economic analysis.
Prerequisites: ECON 221 and ECON 222, or ECON 224; MGSC 690 or ECON 690.

ECON 692 - Quantitative Methods I (3 Credits)
Probability and statistics necessary for graduate study in economics and business administration; estimation, hypothesis testing, regression, analysis of variance, and nonparametric methods.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

ECON 694 - Quantitative Methods II (3 Credits)
A study of decision models useful in business administration. Topics covered include linear programming, sensitivity analysis and duality, network models, integer programming, determinate and stochastic dynamic programming, inventory, and queues.
Prerequisites: ECON 221 and ECON 222, or ECON 224; ECON 692, mathematics and computer portion of Fundamental Business Skills or equivalent.

Edu Foundations & Inq (EDFI)

EDFI 300 - Schools in Communities (3 Credits)
Social, political, and historical aspects of diverse educational institutions in American culture with an emphasis on families, schools, and communities. Sophomore standing.
Graduation with Leadership Distinction: GLD: Community Service

EDFI 321 - Dynamics of American Public Education (3 Credits)
Extensive treatment of the social, political, economic, and philosophical influences that have shaped public education. Analysis of the financial, organizational, and legal aspects of education. Library assignments provide a working knowledge of professional standard references and journals. Junior or higher standing.

EDFI 350 - Antiracist Education (3 Credits)
Basic concepts, issues, and practices of antiracist education. Topics include individual and institutional racism, overt and covert racism, curriculum, textbooks, power relationships, teacher-student relationships, and privacy.
Cross-listed course: AFAM 350
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

EDFI 357 - Sociology of Education (3 Credits)
Analysis of educational institutions, organizations, processes, and their effects in contemporary society.
Prerequisites: SOCY 101.

Cross-listed course: SOCY 357
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

**EDUC 592 - Historical Foundations of American Educational Thought (3 Credits)**
A survey of the history, philosophy, administration, and legal bases of American education.

**EDUC 643 - Southern Educational History (3 Credits)**
Development of educational institutions in Southern society with special attention given to South Carolina.

**EDUC 690 - Independent Study (1-3 Credits)**

**EDUC 634 - Field Problems in Education III (1-3 Credits)**
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

**EDUC 635 - Field Problems in Education IV (1-3 Credits)**
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

**GLD: Global Learning**
Graduation with Leadership Distinction: GLD: Global Learning

**EDUC 610 - USC Teaching Fellows Leadership Seminar (0 Credits)**
A resource for members of the Teaching Fellows Program to successfully complete yearly program requirements. Topics include: qualities of an effective teacher, how to give constructive classroom feedback, students' needs decision making, leadership styles, valuing diversity, and factors that influence/contribute to effective teacher leadership. Restricted to students enrolled in the USC Teaching Fellows Program. Instructor permission only.

**EDUC 630 - Global and Multicultural Perspectives on Education in International Settings (3 Credits)**
Study abroad course in which students apply social science knowledge and analytical methods to understand the ways in which culture, society, politics, and global forces affect education and schooling in diverse international settings. May be repeated as content varies by destination.

**Carolina Core: GSS**
Graduation with Leadership Distinction: GLD: Global Learning

**EDUC 610 - Case Study in Classroom Management (3 Credits)**
Case study in the clinical application of pedagogy and methods related to classroom management, including relational, procedural and instructional aspects of a classroom management approach.

**EDUC 632 - Field Problems in Education I (1-3 Credits)**
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

**EDUC 633 - Field Problems in Education II (1-3 Credits)**
Selected educational problems will be identified and explored, and probable solutions developed. Emphasis will be on providing practicing school personnel an opportunity to work cooperatively, under supervision, toward solutions to those problems which are of immediate concern to them. Activities will include seminars, review of literature, observations, case studies, materials development, and other applicable approaches. Emphasis will be placed on the development of a comprehensive proposal designed to alleviate or solve the problems identified.

**EDPY 333 - Introduction to Child Growth and Development (3 Credits)**
Basic course designed to familiarize the prospective teacher with the psychology of learning and development. Special attention given to South Carolina.
EDPY 644 - Free-Choice Learning and Informal Learning Environments (3 Credits)
Examines free-choice (or informal) learning and the characteristics of settings and activities outside of formal schooling that effectively promote learning and development.

EDPY 690 - Independent Study (3-15 Credits)

Educational Technology (EDET)

EDET 603 - Design and Development Tools I (3 Credits)
Study of multimedia elements (e.g., graphics, animation, audio, and video) including the creation and editing of materials. Instructional applications, copyright issues, and technology limitations will be explored.

EDET 650 - Internship in Educational Technology (3 Credits)
Supervised field-based experiences in the design, development, evaluation, and implementation of technology-based instructional and training projects.
Prerequisites: EDET 603, EDET 703, and EDET 722.

EDET 652 - Design and Evaluation of Games and Simulations (3 Credits)
Application of instructional design criteria to computer and noncomputer interactions. Analyses include requisite cognitive processes, affective outcomes, and ethical standards. Design and formative testing of interactive exercises.

Electrical Engineering (ELCT)

ELCT 101 - Electrical and Electronics Engineering (3 Credits)
Introductions to: the profession of electrical engineering; the wide range of sub-disciplines that make electrical engineering so valuable in improving the human condition; the role of electrical engineers in society; and the role of electrical engineering students in the university.

ELCT 102 - Electrical Science (3 Credits)
Fundamentals of electrical and electronic components. Basic network laws. Mathematical and computer tools for network analysis. Cannot earn credit for ELCT 102 after earning credit for either ELCT 220 or ELCT 221.
Prerequisite or Corequisite: MATH 141.

ELCT 201 - Introductory Electrical Engineering Laboratory (3 Credits)
Laboratory procedures, instrumentation and measurements, report writing, computer use in system design, testing, and troubleshooting. Integrative project-based learning environment including passive, active, electronic and electromechanical systems.
Prerequisites: C or better in ENGL 102 and C or better in CSCE 211.
Prerequisite or Corequisite: ELCT 222.

ELCT 220 - Electrical Engineering for Non-Majors (3 Credits)
Fundamentals of electrical engineering for mechanical, chemical, or other engineering disciplines, including electric circuits, measurements, data acquisition, sensors, motors, and controllers.
Prerequisites: MATH 142.

ELCT 221 - Circuits (3 Credits)
Analysis of linear ac circuits using complex variables. Nodal and mesh analysis, Thevenin and Norton transformations, linearity, superposition, use of math solvers, circuit simulators, and computer-interfaced instrumentation.
Prerequisites: C or better in MATH 142; C or better in ELCT 102; or C or better in AESP 265; or D or better in ELCT 220.

ELCT 222 - Signals and Systems (3 Credits)
Analysis of continuous-time signals and systems in time and frequency domains, Fourier series and transforms, Laplace transforms; introduction to discrete-time signals.
Prerequisites: C or better in ELCT 221 and in MATH 242.

ELCT 301 - Electronics Laboratory (3 Credits)
Design and implementation of analog and digital electronic circuits, with emphasis on developing deep individual understanding of curriculum-spanning concepts.
Prerequisites: D or better in ELCT 201.
Prerequisite or Corequisite: D or better in ELCT 371.

ELCT 302 - Real Time Systems Laboratory (3 Credits)
Real-time design and development on an unmanned ground vehicle platform.
Prerequisites: ELCT 301.
Prerequisite or Corequisite: ELCT 331.

ELCT 321 - Digital Signal Processing (3 Credits)
An introduction to analysis, design and applications of discrete time systems; z- and discrete Fourier transforms; frequency and impulse responses, FIR and IIR filters.
Prerequisites: C or better in ELCT 222.

ELCT 331 - Control Systems (3 Credits)
Prerequisites: C or better in ELCT 222.

ELCT 332 - Fundamentals of Communication Systems (3 Credits)
Introduction to communication systems, sampling theorem, modulation theory, multiplexing, phase-lock loops, and related topics.
Prerequisite or Corequisite: ELCT 321 and STAT 509.

ELCT 350 - Computer Modeling of Electrical Systems (3 Credits)
Formulation of physics-based dynamic models of electrical or electromechanical systems. Solving dynamic equations of electrical systems in discrete time. Use of object oriented programming language (e.g., C++) and computer tools (e.g. MATLAB, virtual test bed) for solving dynamic equations of electrical systems.
Prerequisites: C or better in ELCT 222, C or better in CSCE 145.

ELCT 361 - Electromagnetics (3 Credits)
Basic concepts of electric and magnetic fields, including electrostatics, magnetostatics, and quasi-statics with computer applications.
Prerequisites: PHYS 212 and MATH 241.
ELCT 363 - Introduction to Microelectronics (3 Credits)
Properties and characteristics of semiconductor materials, p-n and semiconductor-metal junctions. Basic properties, characteristics and operation of diodes and transistors.
Prerequisites: C or better in CHEM 111, C or better in PHYS 212, C or better in MATH 241.

ELCT 371 - Electronics (3 Credits)
Introduction to design and analysis of electronic circuits and systems. Applications of amplifiers, op-amps, diodes, bipolar and field-effect transistors in analog and digital circuits.
Prerequisites: C or better in ELCT 222.

ELCT 403 - Capstone Design Project I (3 Credits)
Planning, preliminary design, and prototyping. Analysis and specification of system and subsystem requirements, measures of performance, analysis of alternatives, effective team work. Project management and scheduling. Prototype implementation and characterization. This course should be taken during student's penultimate semester.
Prerequisites: D or better in ELCT 302.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ELCT 404 - Capstone Design Project II (3 Credits)
Continuation of Capstone Design Project I. Final design and implementation including design iteration, design for reliability, system integration and characterization, business case development.
Prerequisites: D or better in ELCT 403.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research
Experiential Learning: Experiential Learning Opportunity

ELCT 499 - Special Problems (1-3 Credits)
Individual investigation or studies of special topics. A maximum of 3 credits total may be applied toward a degree. Advanced approval of project proposal by instructor and department advisor.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

ELCT 510 - Photovoltaic Materials and Devices (3 Credits)
Fundamentals of photovoltaic solar cell technologies. Design and operation of solar cells, including efficiency analysis and cost benefit. Applications to green and sustainable energy systems.
Prerequisites: C or better in ELCT 363.

ELCT 521 - Introduction to Microwaves (3 Credits)
Introduction to plane electromagnetic wave propagation, transmission lines, transmission line equations, input impedance, waveguides and cavities, antennas and antenna arrays, microwave modeling.
Prerequisites: ELCT 361 or PHYS 504.

ELCT 530 - Industrial Controls (3 Credits)
The embedded electronics and software used in data acquisition, and process and instrument control in an industrial or manufacturing environment.
Prerequisites: ELCT 331.

ELCT 531 - Digital Control Systems (3 Credits)
Analysis and design of discrete-time control systems, implementation of control systems using digital electronic systems. Applications to electrical systems.
Prerequisites: ELCT 331.

ELCT 533 - System Health Management (3 Credits)
Sensing, data acquisition, and data processing for evaluation of performance and system health. Integration and implementation of health management systems.
Prerequisites: ELCT 321 or equivalent.

ELCT 541 - Sensors for Biomedicine (3 Credits)
Operating principles and design of bioelectric sensors and sensor systems for medical applications.
Prerequisites: C or better in ELCT 361, ELCT 363 and ELCT 371.

ELCT 551 - Power Systems Design and Analysis (3 Credits)
Transmission line design, load flow, and short circuit analysis of power systems.
Prerequisites: ELCT 331.

ELCT 553 - Electromechanical Energy Conversion (3 Credits)
Analysis and design of electromechanical energy conversion systems, including electrical machines and electronic drives.
Prerequisites: ELCT 331, ELCT 361.

ELCT 554 - Integration of Photovoltaics in Modern Power Systems (3 Credits)
Analysis and design of power systems in presence of photovoltaic generation with focus on protection systems, control, power quality.
Prerequisites: ELCT 551.

ELCT 559 - Special Topics in Distributed Energy Resources for Electric Energy Systems (3 Credits)
Special topics in distributed energy resources for modern electrical energy systems. Course content varies and will be announced in the schedule of classes by title. May be repeated as topics vary.
Prerequisite or Corequisite: ELCT 551.

ELCT 562 - Wireless Communications (3 Credits)
Fourier techniques and stochastic processes review, multiple access & cellular techniques, signal space representations for signals and noise, baseband modulations and optimal receivers in additive white Gaussian noise, bandpass and higher-order modulations, mobile & wireless propagation channel characteristics, effects of bandlimiting & distortion mitigation, diversity techniques.
Prerequisites: ELCT 332, ELCT 361.

ELCT 563 - Semiconductor Electronic Devices (3 Credits)
Basic semiconductor material properties. Principles and characteristics of semiconductor p-n junction and Schottky diodes, field-effect transistors (JFETs, MESFETs, and MOSFETs), and bipolar junction transistors.
Prerequisites: ELCT 363 or equivalent.

ELCT 564 - RF Circuit Design for Wireless Communications (3 Credits)
RF design fundamentals, lumped elements, transmission line theory, transmission lines and waveguides, S-parameters, impedance matching, microwave resonators.
Prerequisites: ELCT 361.

ELCT 566 - Semiconductor Optoelectronics (3 Credits)
Basic semiconductor material optical properties. Principles and structures of semiconductor lasers, Light Emitting Diodes, and photodetectors.
Prerequisites: ELCT 363 or equivalent.
ELCT 572 - Power Electronics (3 Credits)
Basic analysis and design of solid-state power electronic devices and circuitry.
Prerequisites: ELCT 371, ELCT 331.

ELCT 574 - Semiconductor Materials and Device Characterization (3 Credits)
Semiconductor material and device characterization; resistivity, carrier and doping density, contact resistance, Schottky barriers, series resistance, defects, trapped charges, and carrier lifetime.
Prerequisites: ELCT 363 or equivalent.

ELCT 582 - Semiconductor Laboratory (3 Credits)
Prerequisite: ELCT 363.

Elementary Education (EDEL)

EDEL 305 - Nature and Management of Elementary Classrooms (3 Credits)
The learning environment to include diversity of students, instructional materials, classroom management, and communication patterns.
Prerequisites: EDPY 401, EDET 201.

EDEL 306 - Culturally Sustaining Pedagogy for the Elementary Classrooms (3 Credits)
Theoretical and pedagogical approaches to Culturally Sustaining Pedagogy (CSP) — curriculum design tools and instructional strategies that reflect the diversity of students’ cultural backgrounds and languages in elementary classrooms.

EDEL 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

EDEL 405P - Practicum in Elementary Education (1 Credit)
Sequence of supervised field experiences in an assigned school setting.
Prerequisites: EDEL 301.

EDEL 440 - Elementary Mathematics Instruction (3 Credits)
Approaches, materials, and methods for teaching mathematics in elementary grades. Restricted to students in the B.A. program in elementary education.
Prerequisites: Admission to the professional program and MATH 221.

EDEL 441 - Introductory Elementary Internship (3 Credits)
Field experience requiring students to gradually assume the responsibilities of teaching in an assigned classroom under the guidance of an experienced teacher.
Corequisite: EDRD 430.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDEL 450 - Elementary Science Instruction (3 Credits)
Instructional approaches and methods for teaching science in elementary grades.
Prerequisites: Admission to the professional program.

EDEL 460 - Elementary Social Studies Instruction (3 Credits)
Instructional approaches, materials, and methods for teaching social studies in elementary grades. Restricted to students in the B.A. program in Elementary Education.

EDEL 470 - Directed Teaching in the Elementary and or Middle Schools (3 Credits)
Teaching and related experiences, including seminars and workshops. Admission to professional teacher certification program and completion of the elementary education core.
Prerequisites: EDRD 420.

EDEL 471 - Internship in Environments, Planning, and Motivation for Teaching and Learning (6 Credits)
Internship for practice in classrooms appropriate to elementary education related to curriculum design and assessment. Field experiences emphasize planning lessons that actively engage students in learning.
Prerequisites: Admission to the internship in elementary education.

EDEL 490 - Internship in Elementary Education (12 Credits)
Internship for practice in elementary classrooms (grades 2-6) related to curriculum design, assessment, interactive teaching, and professional roles.
Prerequisites: Admission to Internship II in Elementary Education.
Corequisite: EDEL 491.

Experiential Learning: Experiential Learning Opportunity

EDEL 490A - Internship in Curriculum and Assessment (4 Credits)
Internship for practice in elementary classrooms (grades 2-6) related to curriculum design and assessment.
Prerequisites: Admission to Internship II in Elementary Education.
Corequisite: EDEL 490B and EDEL 490C.

EDEL 490B - Internship in Teaching (4 Credits)
Internship for practice in elementary classrooms (grades 2-6) related to interactive teaching.
Prerequisites: Admission to Internship II in Elementary Education.
Corequisite: EDEL 490A and EDEL 490C.

EDEL 490C - Internship in Professional Roles (4 Credits)
Internship for practice in elementary classrooms (grade 2-6) related to professional roles.
Prerequisites: Admission to Internship II in Elementary Education.
Corequisite: EDEL 490A and EDEL 490B.

EDEL 491 - Seminar on Teaching (3 Credits)
Exploration of the principles and theories about teaching and learning as they apply to the field of practice in the context of schools in democratic societies.
Prerequisites: Admission to Internship in Elementary Education.
Corequisite: EDEL 490A, EDEL 490B, and EDEL 490C.

EDEL 505P - Inquiry Practicum: The Elementary School (1 Credit)
Identifying and understanding the various components of the elementary environment through the practice of inquiry through field-based experiences.
Corequisite: EDEL 305.

EDEL 506 - Integrated Curriculum in Elementary Schools (3 Credits)
Examining and practicing a variety of approaches that connect the content of different elementary school subjects.
EDEL 506P - Inquiry Practicum: Roles of Elementary Teachers (1 Credit)
Identifying and understanding the roles of elementary teachers through the practice of inquiry through field-based experiences.
Corequisite: EDEL 506.

EDEL 510 - Teaching Second Languages to Young Children (3 Credits)
To assist prospective teachers of young children in the development of a second language and multicultural learning activities. Practicum sessions are an integral part.
Prerequisites: 210 level of a foreign language or its equivalent.
Cross-listed course: FORL 510
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDEL 515 - Science in the Elementary School (3 Credits)
Reinforces the science background of prospective and practicing elementary teachers. Innovations are examined. Emphasis is placed on methods, materials, community resources, and evaluation procedures.

EDEL 544 - Modern Approaches to Mathematics Teaching (3 Credits)
Curriculum and pedagogy for mathematics topics taught in grades 3 through 8.

EDEL 548 - Field Problems: Teaching Mathematics Using Manipulative Materials, Grades 4-6 (3 Credits)
Instructional approaches and materials for teaching elementary school mathematics, grades 4-6. This course cannot be applied to a graduate degree in the elementary education program.

EDEL 560 - Social Studies in the Elementary/Middle School (3 Credits)
Fundamentals of social studies education in the elementary/middle school.

EDEL 570 - Internship in Environments for Teaching and Learning (3 Credits)
Internship for practice in classrooms appropriate to elementary education related to curriculum design and assessment.
Prerequisites: Admission to the internship in elementary education.

EDEL 571 - Internship in Planning and Motivation (3 Credits)
Field experience that emphasizes planning lessons that actively engage students in learning.
Prerequisites: Admission to the internship in elementary education.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDEL 642 - Teaching Mathematics to Young Children (3 Credits)
Analysis of a developmental approach to teaching children under the age of 9.

EDEL 645 - Diagnostic Teaching of Arithmetic (3 Credits)
Analysis of the concepts and skills of arithmetic in the school mathematics curriculum; exploration of diagnostic-prescriptive teaching methods.

EDEL 670 - Language Arts in the Elementary and Middle School (3 Credits)
Examine the content, goals, and methods of teaching language arts in elementary and middle school.

EDEL 690 - Independent Study (1-3 Credits)
ENFS 097 - Special Topics in Graduate Communication B (3 Credits)
Integrated English for Specific Purposes for graduate students in the Masters Accelerator Program; part two of a two-part subject-specific course sequence; IELTS 6.0 or equivalent language proficiency is required. Restricted to Graduate Students in the International Accelerator Program. ENFS 096 and ENFS 097 are normally taken in the same semester as consecutive 8-week courses.
Prerequisite or Corequisite: ENFS 096.

ENFS 098 - Topics in Advanced English for Specific Purposes (3 Credits)
Advanced, field-specific, Integrated English for Specific Purposes for graduate students in the Masters Accelerator Program; IELTS 6.5 or equivalent language proficiency is required. Restricted to Graduate Students in the International Accelerator Program.

Engl as a Sec Language (ENSL)
ENSL 355 - Service Learning through English to Speakers of Other Languages (3 Credits)
Active youth or adult ESOL education service learning experience. Includes application of ESOL principles, exploration of the immigrant experience, and reflective writing addressing the intersection of course concepts and service experiences. International service component may be an option.

English (ENGL)
ENGL 101 - Critical Reading and Composition (3 Credits)
Instruction in strategies for critically reading and analyzing literature and non-literary texts; structured, sustained practice in composing expository and analytical essays.
Carolina Core: CMW

ENGL 102 - Rhetoric and Composition (3 Credits)
Instruction and intensive practice in researching, analyzing, and composing written arguments about academic and public issues.
Prerequisites: C or better in ENGL 101 or equivalent credit.
Carolina Core: CMW, INF

ENGL 200 - Creative Writing, Voice, and Community (3 Credits)
Workshop course on creative writing with a focus on values, ethics, and social responsibility.
Prerequisites: ENGL 101 and ENGL 102.
Carolina Core: AIU, VSR

ENGL 270 - World Literature (3 Credits)
Selected masterpieces of world literature from antiquity to present.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.
Cross-listed course: CPLT 270
Carolina Core: AIU

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 280 - Literature and Society (3 Credits)
Fiction, poetry, drama and other cultural texts engaged with questions of values, ethics and social responsibility.
Prerequisites: ENGL 101 and ENGL 102.
Carolina Core: AIU, VSR

ENGL 282 - Special Topics in Fiction (3 Credits)
Special topics in fiction from several countries and historical periods, illustrating the nature of the genre. May be repeated for credit. Content varies by title and semester.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.
Carolina Core: AIU

ENGL 283 - Special Topics in British Literature (3 Credits)
Special topics in British literature exemplifying persistent themes of British culture. May be repeated for credit. Content varies by title and semester.
Prerequisites: ENGL 101 and 102 or equivalent.
Carolina Core: AIU

Graduation with Leadership Distinction: GLD: Global Learning

ENGL 284 - Drama (3 Credits)
Drama from several countries and historical periods, illustrating the nature of the genre.
Prerequisites: ENGL 101 and 102 or equivalent.
Carolina Core: AIU

ENGL 285 - Special Topics in American Literature (3 Credits)
Special topics in American literature exemplifying persistent themes of American culture. May be repeated for credit. Content varies by title and semester.
Prerequisites: ENGL 101 and 102 or equivalent.
Carolina Core: AIU

ENGL 286 - Poetry (3 Credits)
Poetry from several countries and historical periods, illustrating the nature of the genre.
Prerequisites: ENGL 101 and 102 or equivalent.
Carolina Core: AIU

ENGL 287 - American Literature (3 Credits)
An introduction to American literary history, emphasizing the analysis of literary texts, the development of literary traditions over time, the emergence of new genres and forms, and the writing of successful essays about literature. Designed for English majors.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.
Carolina Core: AIU

ENGL 288 - English Literature (3 Credits)
An introduction to English literary history, emphasizing the analysis of literary texts, the development of literary traditions over time, the emergence of new genres and forms, and the writing of successful essays about literature. Designed for English majors.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.
Carolina Core: AIU

ENGL 289 - Teaching Writing in One-to-One Sessions (3 Credits)
The study of theories and pedagogy of individualized writing instruction with intensive writing practice including hands-on one-on-one sessions. Recommended for prospective writing teachers.
Prerequisites: ENGL 101 and ENGL 102 or equivalent.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
ENGL 340 - Literature and Law (3 Credits)
Introduction to the interdisciplinary study of literature and law.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 341 - Literature and Medicine (3 Credits)
Introduction to the interdisciplinary study of literature and medicine.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 350 - Introduction to Comics Studies (3 Credits)
Scholarly study of the formal and aesthetic evolutions of graphic novels, comic books, and other related forms.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: FAMS 350

ENGL 360 - Creative Writing (3 Credits)
Workshop course on writing original fiction, poetry, drama, and creative nonfiction.
Prerequisites: ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Community Service

ENGL 363 - Introduction to Professional Writing (3 Credits)
Overview of concepts, contexts, and genres used in professional communication. Intensive practice in analyzing, emulating, and creating textual and multimedia documents for a variety of professional, non-academic purposes (including commercial, informative, persuasive, and technical).
Prerequisite or Corequisite: C or higher in both ENGL 101 and ENGL 102.

ENGL 370 - Language in the USA (3 Credits)
Linguistic examination of the structure, history, and use of language varieties in the U.S., with a particular focus on regional and sociocultural variation and relevant sociolinguistic issues.
Prerequisites: ENGL 101; ENGL 102.

Cross-listed course: LING 345
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ENGL 380 - Epic to Romance (3 Credits)
Comprehensive exploration of medieval and other pre-Renaissance literature using texts representative of the evolution of dominant literary forms.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 380

ENGL 381 - The Renaissance (3 Credits)
Literature of the Renaissance, in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 381

ENGL 382 - The Enlightenment (3 Credits)
Literature of the Enlightenment in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 382

ENGL 383 - Romanticism (3 Credits)
Literature of Romanticism, in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 383

ENGL 384 - Realism (3 Credits)
Literature of Realism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 384

ENGL 385 - Modernism (3 Credits)
Literature of Modernism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 385

ENGL 386 - Postmodernism (3 Credits)
Literature of Postmodernism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: CPLT 386

ENGL 387 - Introduction to Rhetoric (3 Credits)
Theories of human communication useful for understanding and informing the everyday work of writers. Emphasis on intensive analysis and writing.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: SPCH 387
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ENGL 388 - History of Literary Criticism and Theory (3 Credits)
Representative theories of literature from Plato through the 20th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 389 - The English Language (3 Credits)
Introduction to the field of linguistics with an emphasis on English. Covers the English sound system, word structure, and grammar. Explores history of English, American dialects, social registers, and style.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: LING 301

ENGL 390 - Great Books of the Western World I (3 Credits)
European masterpieces from antiquity to the beginning of the Renaissance.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

Cross-listed course: CPLT 301
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 391 - Great Books of the Western World II (3 Credits)
European masterpieces from the Renaissance to the present.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

Cross-listed course: CPLT 302
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences
ENGL 392 - Great Books of the Eastern World (3 Credits)
Classical and contemporary poetry and prose of the Middle and Far East.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

Cross-listed course: CPLT 303
Graduation with Leadership Distinction: GLD: Global Learning

ENGL 393 - Postcolonialism (3 Credits)
Literature of Postcolonialism in its cultural contexts, explored through representative works.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 395 - Classical Drama (3 Credits)
Representative plays by Greek and Roman dramatists.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Prerequisites: ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Research

ENGL 400 - Early English Literature (3 Credits)
Major works of Old and Middle English literature (excluding Chaucer).
Prerequisites: ENGL 101 and ENGL 102.

ENGL 401 - Chaucer (3 Credits)
Chaucer’s works, with special attention to The Canterbury Tales.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 402 - Tudor Literature (3 Credits)
English non-dramatic poetry and prose of the 16th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 403 - The 17th Century (3 Credits)
Poetry and prose of major 17th-century writers (excluding Milton).
Prerequisites: ENGL 101 and ENGL 102.

ENGL 404 - English Drama to 1660 (3 Credits)
Drama in England, from the Middle Ages to the Restoration (excluding Shakespeare).
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 405 - Shakespeare’s Tragedies (3 Credits)
Prerequisite: ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 406 - Shakespeare’s Comedies and Histories (3 Credits)
Note: All Literature Courses 300 and above require ENGL 101, ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 407 - Milton (3 Credits)
Milton’s works, with special attention to Paradise Lost.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 410 - The Restoration and 18th Century (3 Credits)
Poetry and prose from 1660 to the later 18th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 411 - British Romantic Literature (3 Credits)
Poetry and prose of the English Romantic period.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 412 - Victorian Literature (3 Credits)
Poetry and prose from the 1830s to the end of the century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 413 - Modern English Literature (3 Credits)
Poetry and prose of the 20th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 414 - English Drama Since 1660 (3 Credits)
Major dramatists from the Restoration to the present.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 415 - The English Novel I (3 Credits)
A study of the novel from the beginnings through Walter Scott.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 416 - The English Novel II (3 Credits)
A study of the novel from Walter Scott into the 20th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 419 - Topics in English Literature (3 Credits)
Intensive study of selected topics. May be repeated for credit under a different title. Course can be taken 2 times for credit. 6 is the maximum number of credit hours if course can be taken multiple times.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 420 - American Literature to 1830 (3 Credits)
Colonial, Revolutionary, and early Romantic poetry and prose.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 421 - American Literature 1830-1860 (3 Credits)
Poetry and prose of the American Romantic period.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 422 - American Literature 1860-1910 (3 Credits)
Poetry and prose from the Civil War to the early modern era.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 423 - Modern American Literature (3 Credits)
Poetry and prose of the 20th century.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 424 - American Drama (3 Credits)
Representative plays from the 18th century to the present.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 425A - The American Novel to 1914 (3 Credits)
Representative novels from the 18th century to World War I.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 425B - The American Novel Since 1914 (3 Credits)
Representative novels from 1914 to the present.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 426 - American Poetry (3 Credits)
Representative works from the 17th century to the present.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 427 - Southern Literature (3 Credits)
Representative works of Southern writers.
Prerequisites: ENGL 101 and ENGL 102.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 428A</td>
<td>African-American Literature I: to 1903</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Representative works of African-American writers to 1903.</td>
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<td>Cross-listed course: AFAM 428A</td>
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<td>Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences</td>
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<tr>
<td>ENGL 428B</td>
<td>African-American Literature II: 1903 – Present</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Representative works of African-American writers from 1903 to the present.</td>
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<tr>
<td>ENGL 429</td>
<td>Topics in American Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Intensive study of selected topics. May be repeated for credit under a different title.</td>
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<tr>
<td>ENGL 430</td>
<td>Topics in African American Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
</tr>
<tr>
<td></td>
<td>Intensive study of selected topics. May be repeated for credit under a different title.</td>
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<tr>
<td>ENGL 431A</td>
<td>Children's Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Literature written for children in a variety of historical periods and geographical regions, illustrating the nature of the genre.</td>
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<tr>
<td>ENGL 431B</td>
<td>Picture Books</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
</tr>
<tr>
<td></td>
<td>Literature written for children and young adults that communicates through interdependent visual and verbal modes.</td>
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<tr>
<td>ENGL 432</td>
<td>Young Adult Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Post-World War II literature in a variety of genres whose primary audience is young adults.</td>
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<tr>
<td>ENGL 433</td>
<td>Special Topics in Children's and Young Adult Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Intensive study of a genre, historical period, geographical regions, author, or theme in Children's or Young Adult Literature. May be repeated as content varies by title.</td>
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<tr>
<td>ENGL 434</td>
<td>Environmental Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Literature of the natural environment and of human interactions with nature, along with critical theories about human/nature interactions.</td>
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<tr>
<td>ENGL 435</td>
<td>The Short Story</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>The characteristics of the short story and its historical development in America and Europe.</td>
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<tr>
<td>ENGL 436</td>
<td>Science Fiction Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Representative masterworks of science fiction from the beginnings of the genre to the present.</td>
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<tr>
<td>ENGL 437</td>
<td>Women Writers</td>
<td>3</td>
<td>C or higher in both ENGL 101 and ENGL 102.</td>
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<tr>
<td></td>
<td>Representative works written by women.</td>
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<td>Cross-listed course: WGST 437</td>
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<td>Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences</td>
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<td>ENGL 438A</td>
<td>South Carolina Writers</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<td>Authors and literary forms representative of South Carolina.</td>
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<td>ENGL 438B</td>
<td>Scottish Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<td>Authors and literary forms representative of Scotland.</td>
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<td>ENGL 438C</td>
<td>Irish Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<td>Authors and literary forms representative of Ireland.</td>
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<td>ENGL 438D</td>
<td>African Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<td>Authors and literary forms representative of Africa.</td>
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<td>ENGL 439</td>
<td>Selected Topics</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<td>Intensive study of selected themes, topics, currents of thought, or interdisciplinary concerns. May be repeated for credit under a different course title.</td>
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<td>ENGL 440</td>
<td>Principles of Modern Literary Theory</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<td>Major 20th-century approaches to texts, from New Criticism to the present.</td>
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<td>ENGL 441</td>
<td>Global Contemporary Literature</td>
<td>3</td>
<td>ENGL 101 and ENGL 102.</td>
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<td>Cross-listed course: WGST 441</td>
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<td>ENGL 445</td>
<td>LGBTQ+ Literature</td>
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<td>ENGL 101 and ENGL 102.</td>
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<td>This course will examine LGBTQ+ (lesbian, gay, bisexual, trans, queer, and other nonnormative sexual identities) literatures and cultures.</td>
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<td>Cross-listed course: WGST 445</td>
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<td>ENGL 449</td>
<td>Special Topics in Theory</td>
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<td>ENGL 101 and ENGL 102.</td>
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<td>Approaches to criticism, such as feminism, Marxism, semiology, deconstruction, New Historicism, cultural materialism, and others; or genre, such as narrative, poetry, drama, and others.</td>
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<td>Cross-listed course: WGST 449</td>
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<td>Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences</td>
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Notes:
- ENGL 101 and ENGL 102.
- C or better in ENGL 101 and ENGL 102.
- C or higher in both ENGL 101 and ENGL 102.
- C or better in ENGL 101 and ENGL 102.
ENGL 450 - English Grammar (3 Credits)
Major structures of English morphology and syntax; role of language history and social and regional variation in understanding contemporary English.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: LING 421

ENGL 453 - Development of the English Language (3 Credits)
History of English from the earliest Old English texts through Middle English to Contemporary English. No previous knowledge of Old or Middle English is required.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: LING 431

ENGL 455 - Language in Society (3 Credits)
Patterns in language use as a reflection of social group memberships or the negotiation of interpersonal relationships; special attention to social dialects and stylistic differences in American English.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: LING 440

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 457 - African-American English (3 Credits)
Linguistic examination of the structure, history, and use of African-American English, as well as literary presentations, language attitudes, and issues relating to education and the acquisition of Standard English.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

Cross-listed course: AFAM 442, ANTH 442, LING 442
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 460 - Advanced Writing (3 Credits)
Extensive practice in different types of nonfiction writing.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 461 - The Teaching of Writing (3 Credits)
Theory and methods of teaching composition and extensive practice in various kinds of writing. Recommended for prospective writing teachers.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 462 - Technical Writing (3 Credits)
Preparation for and practice in types of writing important to scientists, engineers, and computer scientists, from brief technical letters to formal articles and reports.
Prerequisites: ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ENGL 463 - Business Writing (3 Credits)
Extensive practice in different types of business writing, from brief letters to formal articles and reports.
Prerequisites: ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

ENGL 464 - Poetry Workshop (3 Credits)
Workshop in writing poetry.
Prerequisites: C or better in ENGL 101 and ENGL 102 or equivalent.

ENGL 465 - Fiction Workshop (3 Credits)
Workshop in writing fiction.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 466 - Internship (1-3 Credits)
Supervised professional experience writing in a workplace or community agency, including analysis and production of documents. Internship contract and department permission required. 6 is the Maximum number of credit hours if course can be taken multiple times.
Prerequisites: ENGL 101 and ENGL 102. Internship contract and department permission required.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ENGL 467 - Topics in Rhetoric (3 Credits)
Intensive study of selected topics. May be repeated for credit under a different title.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 468 - Digital Writing (3 Credits)
Emphasis on writing in digital environments, exploring critically and creatively what it means to compose in emerging genres and media. Students will create multimedia texts that may include digital video, audio podcasts, social networks, and/or blogs and wikis, among other digital modes of expression.

ENGL 469 - Creative Nonfiction (3 Credits)
Explores the various subgenres and techniques of creative nonfiction, such as collage, memoir and literary journalism by reading polished examples and by responding to writing exercises designed to prompt ideas and hone skills.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 470 - Rhetoric of Science and Technology (3 Credits)
Rhetorical study of science and technology in contemporary culture, emphasizing the ways scientific texts and technologies make their persuasive appeals.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: SPCH 470

ENGL 471 - Rhetoric and the Ancient Roots of Modern Life (3 Credits)
Classical rhetoric and its ongoing influence in the modern world, emphasizing how the study and use of language in ancient Greece and Rome continue to shape modern communication.
Cross-listed course: CLAS 471, SPCH 471

ENGL 472 - Rhetoric and Popular Culture (3 Credits)
Rhetorical study of popular culture, using the methods and theories of cultural analysis to examine how various popular cultural forms work as persuasion.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: SPCH 472

ENGL 473 - Film and Media Theory and Criticism (3 Credits)
Theory and criticism of film and media from the 1910s to the present. Considers a range of critical approaches to analyzing what different forms of audio-visual media do to and for the audiences they address and the worlds they depict.
Prerequisites: FAMS 240.
ENGL 474 - History of Cinema I (3 Credits)
Survey of the international cinema from its inception until 1945.
Prerequisites: ENGL 101, ENGL 102, and one course between ENGL 270 - ENGL 292.

ENGL 475 - History of Cinema II (3 Credits)
Survey of the international cinema from 1945 to the present.
Prerequisites: ENGL 101 and 102 or equivalent; ARTH 366.

ENGL 485 - Women's Rhetoric (3 Credits)
Study of rhetoric by and about women as manifested in speeches, essays, and other rhetorical artifacts.
Prerequisites: ENGL 101 and ENGL 102.
Cross-listed course: SPCH 485, WGST 485
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 486 - African-American Rhetoric (3 Credits)
African-American rhetoric as manifested in speeches, essays, and other rhetorical artifacts.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.
Cross-listed course: AFAM 486, SPCH 486
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 487 - Black Women Writers (3 Credits)
An examination of literature by and about black women, including fiction, poetry, drama, and autobiography. This study will focus on issues that emerge from the creative representations of black women and the intersections of race, gender, sexuality, and class that interrogate what is both particular and universal experiences.
Prerequisites: ENGL 101 and ENGL 102.
Cross-listed course: AFAM 487, WGST 487
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ENGL 490 - Topics in Advanced Study (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as topics vary.
Prerequisites: ENGL 101 and ENGL 102; English major, junior or senior standing, or consent of instructor.

ENGL 491 - Advanced Poetry Workshop (3 Credits)
Students will study poetry writing at an advanced undergraduate level through close readings of professional poetry, composition of original work, and regular practice in the evaluation of peer work.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 492 - Advanced Fiction Workshop (3 Credits)
Students will study the art and craft of writing literary fiction at an advanced level through close readings and the composition of original short stories.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 493 - Advanced Creative Non-Fiction (3 Credits)
The art and craft of writing creative nonfiction at the advanced level.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 494 - Advanced Professional Writing Workshop (3 Credits)
An advanced workshop on the genres, practices, and contexts of professional writing for experienced writers.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

ENGL 499 - Thesis (3 Credits)
Directed research resulting in a project of substantial length. Upper-level English majors; permission of undergraduate director and supervising faculty member.

ENGL 550 - Language of the Professions (3 Credits)
Practical survey of the syntactic structures of English; usage, social and regional variation emphasis on data.
Prerequisites: ENGL 450, LING 421 or ENGL 680, LING 600.

ENGL 565 - African American Theatre (3 Credits)
The major movements, figures, plays, and critical strategies that have marked the development of African American theatre in the 19th, 20th, and 21st centuries.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.
Cross-listed course: AFAM 565, THEA 565
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

ENGL 566 - Special Topics in U.S. Film and Media (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.
Cross-listed course: MART 593

ENGL 600 - Seminar in Verse Composition (3 Credits)
First half of a year-long course in the writing of poetry taught by a contemporary poet. Limited to 15 students.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 601 - Seminar in Verse Composition (3 Credits)
Second half of a year-long course in the writing of poetry taught by a contemporary poet. Limited to 15 students.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 602 - Fiction Workshop: Short Story (3 Credits)
Instruction in the writing of short fiction taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 603 - Non-Fiction Prose Workshop (3 Credits)
Instruction in the writing of the nonfiction essay taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 604 - Seminar in Composition for the Visual Media (3 Credits)
Writing for the visual arts, the student will write a treatment (prospectus) and one or more multimedia scripts; or one or more teleplays; or a feature-length screenplay. Limited to 15 students.
Prerequisites: ENGL 101 and ENGL 102 or equivalent; ENGL 565 or equivalent experience in film as determined by the instructor.
ENGL 605 - Seminar in Composition for the Visual Media (3 Credits)
Writing for the visual arts, the student will write a treatment (prospectus) and one or more multimedia scripts; or one or more teleplays; or a feature-length screenplay. Limited to 15 students.
Prerequisites: ENGL 101 and ENGL 102 or equivalent; ENGL 565 or equivalent experience in film as determined by the instructor.

ENGL 606 - Playwriting Workshop (3 Credits)
Instruction in playwriting taught by a contemporary playwright. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 610 - Fiction Workshop: Book-Length Manuscript (3 Credits)
Instruction in the writing of book-length manuscripts taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 611 - Writing the Longer Nonfiction Project (3 Credits)
Instruction in the writing of a book-length nonfiction memoir or literary journalism project taught by a contemporary prose writer. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 612 - Writing Poetry: Traditional and Modern Forms (3 Credits)
The writing of traditional and modern poetic forms. Exercises will give practice in composing metered and free verse. Representative masterpieces of traditional and modern poetry will also be studied.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 613 - Writing the Full-Length Play (3 Credits)
Instruction in the writing of a full-length, two-act play for publication or production. May be repeated once for credit.
Prerequisites: graduate status in the English department, or permission of instructor for undergraduates.

ENGL 615 - Academic and Professional Writing (3 Credits)
A workshop course in the development and revision of writing for academic and professional audiences.
Prerequisites: ENGL 101 and ENGL 102, and one course between ENGL 270-ENGL 292.

ENGL 616 - Writing Children's and Young Adult Literature (3 Credits)
Critical study and practical crafting of literature for children and/or young adults, exploring the demands of these genres both through the reading of representative works and relevant secondary sources and through the writing of creative works. Undergraduate students must receive permission of instructor.

ENGL 620 - Computer Methods for Humanistic Problems (3 Credits)
Introduction to data processing concepts suitable for research interests in non-numerical areas such as the humanities.

ENGL 620P - Laboratory for Computer Methods for Humanistic Problems (1 Credit)
Broad but intensive introduction to computer systems and programming for students in the humanities. No mathematical or scientific background is presumed. Laboratory experience with data-processing equipment; introduction to elementary digital computer programming in an appropriate language.
Corequisite: ENGL 620.

ENGL 650 - Special Topics in Literature (1-3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated for credit as topics vary.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 660 - Survey of Linguistics (3 Credits)
Survey of core areas of linguistics and extensions to closely related disciplines. Introduction to the linguistic component of human cognition. Formal description and analysis of the general properties of speech and language, the organization of language in the mind/brain, and cross-linguistic typology and universals.
Cross-listed course: ANTH 600, LING 600

ENGL 670 - Special Topics in Composition (3 Credits)
Course content varies and will be announced in the schedule of classes by title.
Prerequisites: ENGL 101 and ENGL 102.

ENGL 680 - Teaching of Literature in College (2 Credits)
Introduction to the methods of teaching literature, with emphasis on current pedagogical practice and theory and applications of electronic media. The course meets during the first seven weeks of the term and provides supervision of graduate students teaching English 101.

ENGL 680 - Teaching of Composition in College (1 Credit)
Introduction to the methods of teaching composition, with emphasis on current pedagogical practice and theory and applications of electronic media. The course meets during the first seven weeks of the term and provides supervision of graduate students teaching English 102.

Engr and Computing (ENCP)

ENCP 101 - Introduction to Engineering I (3 Credits)
Engineering problem solving using computers and other engineering tools.

ENCP 102 - Introduction to Engineering II (3 Credits)
Principles and practice of visualization and graphical representation using modern computer-aided design tools.

ENCP 103 - Exploratory Topics in Engineering and Computing (0-6 Credits)
Introduction to new, contemporary, and emerging issues in engineering and computing that are not regularly included in lower division courses. Course content varies and will be announced in the schedule of classes.

ENCP 105 - Professional Development and Ethics in Engineering and Computing (1 Credit)
Introduction to the field of engineering and computing in a seminar format. Open to first-year students only.

ENCP 200 - Statics (3 Credits)
Introduction to the principles of mechanics. Equilibrium of particles and rigid bodies. Distributed forces, centroids, and centers of gravity. Moments of inertia of areas. Analysis of simple structures and machines. A study of various types of friction.
Prerequisites: MATH 141.
ENCP 201 - Introduction to Applied Numerical Methods (3 Credits)
Introduction and application of linear algebra and numerical methods to the solution of physical and engineering problems. Techniques include iterative solution techniques, methods of solving systems of equations, and numerical integration and differentiation.
**Prerequisites:** MATH 141.

**Corequisite:** MATH 142.

**Cross-listed course:** EMCH 201, PHYS 311

ENCP 210 - Dynamics (3 Credits)
Kinematics of particles and rigid bodies. Kinetics of particles with emphasis on Newton's second law; energy and momentum methods for the solution of problems. Applications of plane motion of rigid bodies.
**Prerequisites:** ENCP 200 or ECIV 200 or EMCH 200.

ENCP 260 - Introduction to the Mechanics of Solids (3 Credits)
Concepts of stress and strain; stress analysis of basic structural members; consideration of combined stress, including Mohr's circle; introductory analysis of deflection; buckling of columns.
**Prerequisites:** ENCP 200 or ECIV 200 or EMCH 200, MATH 241.

ENCP 290 - Thermodynamic Fundamentals (3 Credits)
Definitions, work, heat, and energy. First law analyses of systems and control volumes. Second law analysis.
**Prerequisites:** MATH 241.

ENCP 330 - Introduction to Vibrations (3 Credits)
Theoretical and experimental analysis of systems involving one degree of freedom, including measurement methods. Introduction to free vibrations in systems with two degrees of freedom.
**Prerequisites:** ENCP 210 or ECIV 210 or EMCH 310, MATH 242.

ENCP 360 - Fluid Mechanics (3 Credits)
Basic principles of fluid statics and dynamics; conservation laws of mass, momentum, and energy developed in the context of the control volume formulation; application of dimensional analysis, dynamic similitude, steady-state laminar viscous flow, and turbulent flow.
**Prerequisites:** D or better in ENCP 200 or ECIV 200 or EMCH 200 or BMEN 212 or BMEN 260 or BMEN 263 or ECHE 300; D or better in PHYS 211.

ENCP 399 - Independent Study (1-3 Credits)
ENCP 440 - Sustainable Development in Engineering (3 Credits)
An examination of political, social, technical, and economic issues associated with sustainable development.

ENCP 460 - Special Topics in Engineering and Computing (1-6 Credits)
Emerging topics in engineering and computing. Course content varies and will be announced in the schedule of classes by title. May be repeated up to 8 hours as topic varies.

ENCP 481 - Project Management (1 Credit)
Estimating project time and resources, scheduling, Gantt and pert charts, budgeting, monitoring and tracking results. Upper-division standing.
**Graduation with Leadership Distinction:** GLD: Research

ENCP 491 - Capstone Design Project I (3 Credits)
Major team-based design project to be undertaken in a student's final year of study; project planning. Consent of advisor and instructor.
**Prerequisite or Corequisite:** ENCP 481 or ECIV 405.

**Graduation with Leadership Distinction:** GLD: Research

ENCP 492 - Capstone Design Project II (3 Credits)
System implementation, testing, verification and validation of results. Written reports and oral presentations in a technical setting. Consent of instructor.
**Prerequisites:** ENCP 491.

**Graduation with Leadership Distinction:** GLD: Research

ENCP 499 - Interdisciplinary Technical Elective (1-3 Credits)
Investigation or studies or special topics, typically in an interdisciplinary team-based environment. A maximum of three credits may be applied toward a degree. Advance approval of proposed project by instructor and academic advisor.

**Graduation with Leadership Distinction:** GLD: Research

ENCP 540 - Environmentally Conscious Manufacturing (3 Credits)
Design for the environment; life cycle analysis; environmental economics and global competitiveness; legal and regulatory affairs; and management of technological change. Interdisciplinary collaboration of engineering, science, math, and business majors. Graduate student standing or consent of instructor.

ENCP 602 - Introduction to Engineering Design for Teachers (3 Credits)
An introduction to computer-aided design with solid modeling for pre-service and in-service teachers. Design process, professional communication and collaboration methods, design ethics, and technical documentation. Non-engineering and computing majors only.
**Prerequisites:** usite: college algebra with trigonometry.

ENCP 603 - Gateway to Technology for Teachers (3 Credits)
Addresses the development of knowledge, skills, and understanding of modern technology. For pre-service and in-service teachers. College of Engineering and Computing majors are excluded.
**Prerequisites:** MATH 112 or MATH 115.

ENCP 605 - Principles of Engineering for Teachers (3 Credits)
Introduces technological processes employed in engineering and engineering technology for K-12 teachers. For pre-service and in-service teachers. College of Engineering and Computing majors are excluded.
**Prerequisites:** MATH 112 or MATH 115.

Environment (ENVR)

ENVR 101 - Introduction to the Environment (3 Credits)
Analysis of environmental issues and the role of science in their identification and resolution.
**Carolina Core:** SCI

ENVR 101L - Introduction to the Environment Lab (1 Credit)
Demonstrations, field trips, data analyses, and discussion relating to environmental issues, such as sustainability, resource management, and pollution control.
**Prerequisite or Corequisite:** ENVR 101.
**Carolina Core:** SCI

ENVR 121 - Green Explorations (3 Credits)
Interdisciplinary seminar combining the intellectual exploration of ecological perspectives with the physical exploration of the local environment. First-year students only.
**Cross-listed course:** POLI 121
ENVR 122 - Green Engagements (3 Credits)
Interdisciplinary seminar on designing, researching, and implementing collaborative projects to promote ecological sustainability. First-year students only.
Cross-listed course: POLI 122
Graduation with Leadership Distinction: GLD: Community Service, GLD: Research

ENVR 200 - Natural History of South Carolina (4 Credits)
General review of plants, animals, and geological features of South Carolina, with an emphasis on connections to the natural world.
Carolina Core: SCI

ENVR 201 - Environmental Science and Policy I (4 Credits)
Introduction to interdisciplinary and multidisciplinary perspectives on environmental issues. Required for majors in the Environment and Sustainability Program. Integrative case studies address ways of understanding nature. Sophomore Standing.

ENVR 202 - Environmental Science and Policy II (4 Credits)
Continuing interdisciplinary and multidisciplinary exploration of relations between environment and society for majors in the Environment and Sustainability Program. Case studies raise issues, challenges, and strategies to achieving sustainability. Sophomore standing.
Prerequisites: ENVR 201.

ENVR 231 - Introduction to Sustainability Management and Leadership (3-4 Credits)
Introduction to development, establishment, and implementation of sustainability management systems and organizational leadership for achieving environmental, social, and economic goals.

ENVR 295 - Green Technology in Germany (3 Credits)
Examination of roots and culture of environmentalism and related technological innovation in Germany. Comparison of green practices around the world to practices within Europe and U.S.
Cross-listed course: GERM 295
Graduation with Leadership Distinction: GLD: Community Service

ENVR 321 - Environmental Pollution and Health (3 Credits)
A survey of pollution (chemical, biological, physical) effects on environmental quality and public health with emphases on how each pollutant class behaves and affects individual and community health over acute to chronic exposure periods.
Cross-listed course: ENHS 321

ENVR 322 - Environmental Ethics (3 Credits)
Examination of principles and arguments surrounding moral issues involving the environment.
Cross-listed course: PHIL 322
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

ENVR 323 - Global Environmental Health (3 Credits)
Concerns in global environmental health, with a focus on toxic pollution and disease burden in developing countries. Investigation of international treaties, corresponding environmental pollution processes, and human health effects.
Cross-listed course: ENHS 323

ENVR 331 - Integrating Sustainability (3 Credits)
Multidisciplinary approach to interrelated environmental, economic and social problems facing humans at local, regional and global scales.

ENVR 342 - Environmental Anthropology: Cross-cultural Perspectives on Environmental Change (3 Credits)
Cross-cultural perspectives on environmental issues.
Cross-listed course: ANTH 342

ENVR 348 - Environmental Racism and Justice (3 Credits)
History of the environmental justice movement and the unequal distribution of environmental harms on low income, minority, and historically marginalized groups.
Cross-listed course: AFAM 348

ENVR 352 - Energy, Society and Sustainability (3 Credits)
The role of energy in shaping society and geographic settings, as well as how energy production and consumption are shaped by the societal values and norms in which it is extracted, produced, and consumed.

ENVR 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and dean of the School of the Environment is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

ENVR 460 - Congaree National Park: Field Investigations in Environmental Science (4 Credits)
Field research practices and analysis techniques in environmental science. Combines inquiry-based field investigations at Congaree National Park and laboratory sample analysis with integration of data and public policy concepts. Daily field trips required.
Prerequisites: ENVR 201 and ENVR 202.

ENVR 490 - Special Topics in Sustainability and the Environment (1-4 Credits)
Current developments in sustainability and global environmental issues selected to meet faculty and student interests. May be repeated as content varies.

ENVR 499 - Research in Environmental Science (1-3 Credits)
Independent student research in collaboration with faculty mentors. Contract approved by instructor, advisor, and department chair is required.
Graduation with Leadership Distinction: GLD: Research

ENVR 500 - Environmental Practicum (3 Credits)
Multidisciplinary research projects related to University or community environmental problems (e.g., energy, water conservation, solid waste, recycling).

ENVR 501 - Special Topics in the Environment (3 Credits)
An in-depth analysis course of a specific interdisciplinary environmental topic. Course content varies and will be announced in the schedule of classes by title.
Prerequisites: ENVR 101 or ENVR 201.

ENVR 531 - Sustainability Management and Leadership Strategies (3-4 Credits)
Integrated management system principles and advanced leadership strategies to create sustainable development initiatives.

ENVR 533 - Sustainability Projects Course (3 Credits)
Research, development and implementation of sustainability projects throughout the campus and community.

ENVR 538 - Global Food Politics (3 Credits)
Political, social, and cultural landscapes of food and farming around the world; issues of agricultural production, trade, consumption, and food security.
Cross-listed course: GEOG 538
ENVR 540 - Decolonizing the Environment: Race, Nature, Power (3 Credits)
Critical examination of the ways ideas about nature and racial difference are conceptually and materially entwined with the production of social and environmental inequalities.

ENVR 548 - Environmental Economics (3 Credits)
An analysis of the economics aspects of environmental decay, pollution control, and natural resource use. Analysis of the ability of the market system to allocate resources efficiently when economic activity is accompanied by environmental damage. Discussion of alternative public policy approaches to pollution control and natural resource conservation.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

Cross-listed course: ECON 548

ENVR 571 - Conservation Biology (3 Credits)
Principles of conservation biology. Importance of biodiversity, causes of decline and extinction, and restoration and conversation policy in terrestrial and aquatic ecosystems.
Prerequisites: BIOL 301.

Cross-listed course: BIOL 571

ENVR 572 - Freshwater Ecology (3 Credits)
Quantitative study of the population, community and evolutionary ecology of freshwater habitats (lakes, ponds, rivers, streams, wetlands). Includes mandatory fieldtrips.
Prerequisites: BIOL 301.

Cross-listed course: BIOL 572

ENVR 590 - Environmental Issues Seminar (3 Credits)
Collaborative study of a contemporary environmental issue. Field trips may be required. Restricted to Environmental Science and Environmental Studies majors.
Prerequisites: BIOL 301.

Cross-listed course: BIOL 531, EPID 661

Environmental Hlth Sci (ENHS)

ENHS 223 - Introduction to Global Environmental Health (3 Credits)
Introduction to global environmental health, with a focus on toxic pollution and disease burden in developing countries. Investigation of international treaties, corresponding environmental pollution processes, and human health effects.

ENHS 321 - Environmental Pollution and Health (3 Credits)
A survey of pollution (chemical, biological, physical) effects on environmental quality and public health with emphases on how each pollutant class behaves and affects individual and community health over acute to chronic exposure periods.
Cross-listed course: ENVR 321

ENHS 322 - Global Environmental Health (3 Credits)
Concerns in global environmental health, with a focus on toxic pollution and disease burden in developing countries. Investigation of international treaties, corresponding environmental pollution processes, and human health effects.
Cross-listed course: ENVR 323

ENHS 324 - Environment and Obesity (3 Credits)
Role of the built environment and environmental toxins in the development and progression of obesity and metabolic syndrome from a public health perspective.

ENHS 450 - Introduction to Public Health Microbiology (3 Credits)
Public health microbiology and the intersection between microbial disease, the environment, and health, with a particular focus on critical public health issues in the 21st century.

ENHS 490 - Independent Study (1-3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor. May be repeated.

Graduation with Leadership Distinction: GLD: Research

ENHS 492 - Special Topics in Environmental Health Sciences (3 Credits)
Issues and emerging themes in environmental health. May be repeated for a total of 9 credit hours as content varies by title.

ENHS 515 - Introduction to Public Health and Emergency Preparedness and Response (3 Credits)
Introduction to emergency preparedness and response in relation to environmental and public health. Historical context for the emergence of public health emergency preparedness and demonstration of articulation with community response partner agencies in the post-9/11 era.

ENHS 592 - Advanced Special Topics in Environmental Health (1-3 Credits)
Emerging issues and topics concerning environmental health. May be repeated as content varies by title up to a total of 9 credit hours.

ENHS 625 - Medical Mycology (3 Credits)
Advanced study of infectious diseases caused by fungi. Etiology, symptoms, and treatment of fungi related illnesses.
Cross-listed course: BIOL 625

ENHS 660 - Concepts of Environmental Health Science (3 Credits)
Environmental health sciences presenting the earth as a complex system in which people, plants, animals, and non-living physical-chemical components interact.

ENHS 661 - Parasitology (4 Credits)
Parasites of biological, economic, and public health importance.
Prerequisites: 300 level Biology course or equivalent.

Cross-listed course: BIOL 531, EPID 661

ENHS 662 - Industrial Health Programs (3 Credits)
Analysis, planning, and implementation of programs to protect workers' health in industry, legislative and regulatory background.

ENHS 664 - Environmental Genomics (3 Credits)
"State of the art" molecular techniques that elucidate mechanisms of environmental contaminants in model systems.

ENHS 665 - Biofilms in Environmental Health and Disease (3 Credits)
Effect of bacterial biofilm process on many diverse areas. Recognition, prevention, and control of biofilm-related problems in the environment, health care, industry, and engineering.

ENHS 666 - Metals and Human Health (3 Credits)
Trace metal(loids), their fate and transport in the environment and their potential impacts on human health.
Prerequisites: BIOL 101 or BIOL 110, CHEM 101 and CHEM 102, or equivalent.

ENHS 670 - Environmental Pollutants and Human Health (3 Credits)
Overview of environmental pollutants and their impact on human health; case studies of environmental catastrophes; principles of ecotoxicology; air, water, and land pollution associated with neurotoxicity, toxicology, and carcinogenesis.
Prerequisites: BIOL 101 or BIOL 110, CHEM 101 and CHEM 102.
ENHS 671 - From Air to Alveoli: Exposure Scienceq (3 Credits)
A receptor-oriented approach for assessing human exposure to environmental contaminants by inhalation, dermal and ingestion routes. Covers methods for estimating exposures to protect health and well-being, to relate adverse effects to exposures, and to comply with regulations and guidelines.

ENHS 675 - Infectious Disease Ecology (3 Credits)
Ecological theories as the basis for environmental change and the (re)emergence of infectious agents that ultimately impact human and ecosystem health.

ENHS 681 - Occupational Ergonomics I (3 Credits)
Introduction to ergonomics: hazards identification and analysis; solution design and implementation; human musculoskeletal characteristics, injuries; effects of work on performance, safety, and health. Application to manufacturing and office environments.

Epidemiology (EPID)

EPID 394 - Special Topics in Epidemiology (1-3 Credits)
Novel and emerging themes in epidemiology. Content varies by instructor and title. May be repeated for a total of 9 credit hours.

EPID 410 - Principles of Epidemiology (3 Credits)
Introduction to descriptive and analytical epidemiology. Topics will include the distribution and determinants of disease, surveillance, outbreak investigations, measures of association, screening tests, bias, and causal reasoning.

Prerequisite or Corequisite: STAT 201 or STAT 205.

Graduation with Leadership Distinction: GLD: Research

EPID 490 - Independent Study (1-3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor. May be repeated.

Prerequisites: Instructor Permission.

Graduation with Leadership Distinction: GLD: Research

EPID 594 - Special Topics in Epidemiology (1-6 Credits)
This course will introduce epidemiologic concepts and methods using cases studies examining current global health challenges. Students will gain an understanding of the role of epidemiology in understanding the distribution of disease and risk factors, and developing, implementing and evaluating public health interventions globally.

EPID 661 - Parasitology (4 Credits)
Parasites of biological, economic, and public health importance. Three lecture and three laboratory hours per week.

Prerequisites: 300 level Biology course or equivalent.

Cross-listed course: BIOL 531, ENHS 661

European Studies (EURO)

EURO 300 - Introduction to European Studies (3 Credits)
Team-taught interdisciplinary seminars, lectures, and readings with guest lecturers.

Graduation with Leadership Distinction: GLD: Global Learning

EURO 490 - Senior Seminar (3 Credits)
Topics in contemporary European studies. Applicable to EURO major only.

Graduation with Leadership Distinction: GLD: Research

EURO 499 - Senior Thesis (3 Credits)
Approval of topic by EURO advisor(s).

Graduation with Leadership Distinction: GLD: Research

Exceptional Children (EDEX)

EDEX 205 - Understanding the Foundations of Disability (3 Credits)
The role of historical events, politics, media, race, gender, and other issues in shaping how disability is viewed. A critical framework for understanding how disability is viewed in Western culture and the effects of those views on individuals with disabilities.

Carolina Core: GSS

EDEX 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

EDEX 491 - Introduction to Inclusion of Students with Mild Disabilities (2 Credits)
Inclusion strategies and accommodation planning for students with mild disabilities in general education classrooms.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

EDEX 523 - Introduction to Exceptional Children (3 Credits)
Overview of the field of education for exceptional children. Basic course for those entering the field of special education.

EDEX 525 - The Nature of Orthopedic and Special Health Problems (3 Credits)
Symptomatology, behavioral manifestations, and resources for care and treatment of orthopedic conditions and other types of health problems in children and youth.

EDEX 530 - Introduction to Early Childhood Special Education (3 Credits)
An overview of early childhood special education for young children with disabilities and their families.

EDEX 531 - Nature of Students with Specific Learning Disabilities (3 Credits)
Children with average/above average intelligence and specific learning impairments; diagnostic and remedial techniques. (Offered by both the College of Education and the Department of Psychology).

Prerequisites: EDEX 523 or PSYC 528.

Cross-listed course: PSYC 529

EDEX 540 - Nature and Needs of the Gifted and Talented (3 Credits)
Types and characteristics of the gifted and talented.

Prerequisites: EDEX 523 or PSYC 518.

EDEX 580 - Direct Instruction in Reading for At-Risk Learners (3 Credits)
A study of the skills and knowledge required to implement direct instruction procedures when teaching reading, with opportunity for application of skills. Research and theoretical foundations will also be evaluated.

Prerequisites: EDEX 523.

EDEX 581 - Teaching Reading in the Content Area to Adolescents with Reading Disabilities (3 Credits)
Research, theory, and instructional practices related to providing reading instruction in content areas for youth with disabilities, with a focus on developing disciplinary literacy in inclusive settings.
EDEX 582 - Teaching Mathematics to Students at Risk (3 Credits)
Research, theory, and instructional practices related to mathematical readiness and instruction for children and youth at risk for mathematical difficulties.
Prerequisites: EDEX 523 or EDEX 491.

EDEX 610 - Instruction of Students with Severe and Multiple Disabilities (3 Credits)
Data-based instruction for teaching students with significant disabilities: task and developmental analysis, individualizing instruction, and preparing and implementing instructional programs.
Prerequisites: EDEX 523 or PSYC 528.

EDEX 615 - Curriculum and Language Instruction for Students with Severe and Multiple Disabilities (3 Credits)
Design, development, adaptation, and implementation of curriculum, language and communication instruction for students with significant disabilities.
Prerequisites: EDEX 523 or PSYC 528.

EDEX 616 - Instruction of Students with Specific Learning Disabilities (3 Credits)
Theory and application of current evidence-based procedures for teaching children with specific learning disabilities.
Prerequisites: EDEX 523, EDEX 531, or EDEX 632 or equivalent.

EDEX 619 - Nature of Students with Intellectual Disabilities (3 Credits)
Nature and causes of intellectual disabilities, behavior, and potentialities of persons with intellectual disabilities.
Prerequisites: a course in the areas of child psychology or child development.

EDEX 630 - Educational Procedures for Early Childhood Special Education (3 Credits)
An initial course in educational procedures focusing on intervention strategies for serving young children with disabilities in inclusive environments.
Prerequisites: EDEX 530.

EDEX 632 - Nature of Students with Emotional and Behavior Disabilities (3 Credits)
Characteristics, etiology, and major theoretical models for children experiencing emotional and/or behavioral problems in school; special education curriculum, programming alternatives, assessment, and issues concerning this population.
Prerequisites: EDEX 523 or PSYC 528.

EDEX 640 - Managing Problem Behavior in the Classroom (3 Credits)
The development of a workable approach to classroom management through an examination of a research-based synthesis of current knowledge in classroom and behavior management.

EDEX 643 - Social/Emotional Development and Guidance for Young Children with Developmental Delays (3 Credits)
Prerequisites: EDEX 523.

EDEX 646 - Advanced Procedures for Assessment in Early Childhood Special Education (ECSE) (3 Credits)
Advanced assessment methods for serving young children with and without developmental delays and their families.
Prerequisites: EDEX 530.

EDEX 670 - Nature of Students with Multi-categorical Disabilities (3 Credits)
Personal, social, and educational implications of a mild to moderate multi-categorical disability (emotional/behavioral, intellectual, and learning disabilities) throughout the lifespan of an individual.
Prerequisites: C or better in EDEX 523.

EDEX 671 - Instruction of Students with Multi-categorical Disabilities (3 Credits)
Theory and application of current evidence-based procedures for teaching children with mild to moderate multi-categorical disabilities.
Prerequisite or Corequisite: C or better in EDEX 670.

EDEX 682 - Introduction to Braille (3 Credits)
Basic course for mastery of the literary braille code. Transcription of instructional materials in literary braille.

EDEX 685 - Nature of Students with Visual Disabilities (3 Credits)
The psychological, social, and educational implications for persons with visual disabilities; definitions, incidence, characteristics of, and rehabilitative and educational programs for persons with visual disabilities.

EDEX 686 - Introduction to Deafness (3 Credits)
Educational implications of philosophy, theory, and research about deafness.
Prerequisites: EDEX 523 or equivalent.

EDEX 687 - Communication Systems for Students who are Deaf or Hearing Impaired (3 Credits)
Knowledge and basic skills of finger-spelling and sign forms for communication.

EDEX 690 - Independent Study (1-3 Credits)

EDEX 691 - Collaborative Partnerships in PK-12 Special Education (3 Credits)
Communication and collaboration skills and strategies for creating and maintaining effective partnerships with a variety of stakeholders involved in educating students with disabilities in PK-12 settings.
Prerequisites: EDEX 523 or PSYC 528.

EDEX 692 - Partnerships in Early Childhood Special Education (3 Credits)
Strategies for collaborating and communicating with families and other professionals as members of multidisciplinary teams in Early Intervention and Early childhood Special Education.
Prerequisites: EDEX 523.

Exercise Science (EXSC)

EXSC 191 - Physical Activity and Health (3 Credits)
Concepts of exercise, nutrition, behavior changes, and skills to promote lifelong physical activity and health.

EXSC 200 - Introduction to Sports Medicine and Athletic Training (3 Credits)
Examination of careers and specific practices within sports medicine, specifically athletic training.
Prerequisites: C or better in EXSC 223 and EXSC 223L.

EXSC 201 - Foundations of Physical Therapy (3 Credits)
Introduction to the profession and practice of physical therapy detailing the functions, disorders, and therapies of the major organ systems in applied context.
EXSC 223 - Anatomy and Physiology I (3 Credits)
The structure and functions of the human body: tissues, integument, skeletal, muscular, respiratory, and reproductive systems, and regulation of eating and metabolism.
**Prerequisites:** ENGL 102; BIOL 102; CHEM 111; MATH 122 or MATH 141.

EXSC 223L - Anatomy and Physiology I Laboratory (1 Credit)
Hands-on activities covering micro- and macroscopic anatomical topics including identification of tissues, bones and markings of the skeletal system, the joints, and the skeletal muscles of the body.
**Prerequisites:** ENGL 102; BIOL 102, CHEM 111; MATH 122 or MATH 141.

**Prerequisite or Corequisite:** EXSC 223.

EXSC 224 - Anatomy and Physiology II (3 Credits)
The structure and functions of the human body: nervous, cardiovascular, digestive, immune, urinary, and endocrine systems.
**Prerequisites:** C or better in EXSC 223 and EXSC 223L.

EXSC 224L - Anatomy and Physiology II Lab (1 Credit)
Hands-on activities covering the gross anatomy nervous, cardiovascular, digestive, and muscular systems.
**Prerequisites:** C or better in both EXSC 223 and EXSC 223L.

EXSC 275 - Functional Musculoskeletal Anatomy (2 Credits)
Human anatomy for allied health professions. Focus on anatomy relevant to providing health services; knowledge and skills of orthopedic anatomy relative to muscle, ligament, and tendon; muscle origins, insertions, innervations, and actions pertaining to joint motion.
**Prerequisites:** EXSC 223 and EXSC 223L.

**Corequisite:** EXSC 275L.

EXSC 275L - Functional Musculoskeletal Anatomy Lab (1 Credit)
Clinical application of human anatomy for allied health care professions using discussion, models, and charts. Anatomy relevant to providing health care to individuals.
**Prerequisites:** EXSC 223 and EXSC 223L.

**Corequisite:** EXSC 275.

EXSC 303 - Perceptual-Motor Development (3 Credits)
Theoretical foundations and observation of growth and motor development of children, age birth to 10 years. Observation will be provided via video and live subjects provided by the instructor.
**Prerequisites:** C or higher in both EXSC 224 and EXSC 224L.

EXSC 330 - Exercise Physiology (3 Credits)
The individual and combined roles of the major organ systems of the body in maintaining homeostasis during muscular exercise.
**Prerequisites:** C or better in EXSC 224 and EXSC 224L.

**Corequisite:** EXSC 330L.

EXSC 330L - Exercise Physiology Lab (1 Credit)
Laboratory procedures in exercise physiology; measurement of physical fitness components.
**Prerequisites:** EXSC 224 and EXSC 224L.

**Corequisite:** EXSC 330.

EXSC 335 - Biomechanics of Human Movement (3 Credits)
Kinetic and kinematic principles governing efficient human movement. Selected methods of analyzing human movement will be reviewed.
**Prerequisites:** C or better in EXSC 224, EXSC 224L, PHYS 201 and PHYS 201L.

EXSC 341A - Health Fitness Practicum (1 Credit)
First hour of a supervised practicum in a clinical setting for the Health Fitness Track.
**Prerequisites:** EXSC 223, EXSC 224.

**Cross-listed course:** EXSC 341B, EXSC 341C

EXSC 341B - Health Fitness Practicum (1 Credit)
Second hour of a supervised practicum in a clinical setting for the Health Fitness Track.
**Prerequisites:** EXSC 223, EXSC 224, EXSC 341A.

**Cross-listed course:** EXSC 341A, EXSC 341C

EXSC 341C - Health Fitness Practicum (1 Credit)
Third hour of a supervised practicum in a clinical setting for the Health Fitness Track.
**Prerequisites:** EXSC 223, EXSC 224, EXSC 341A, EXSC 341B.

EXSC 342A - Practicum in Life-Span Motor Development (2 Credits)
Part I of a supervised practicum in a clinical setting in life-span motor development.
**Prerequisites:** EXSC 223, EXSC 224, EXSC 303.

**Cross-listed course:** EXSC 342B

EXSC 342B - Practicum in Life-Span Motor Development (2 Credits)
Part II of a supervised practicum in a clinical setting in a life-span motor development.
**Prerequisites:** EXSC 223, EXSC 224, EXSC 303, EXSC 342A.

**Cross-listed course:** EXSC 342A

**Graduation with Leadership Distinction:** GLD: Research

EXSC 343 - Practicum in Exercise Science (1-3 Credits)
Supervised practicum in a research or clinical setting for scientific-foundations track. Departmental special permission required.
**Prerequisites:** EXSC 223, EXSC 224.

EXSC 351 - Acquisition of Motor Skills (3 Credits)
Scientific and behavioral foundation of the learning and performance of motor skills.
**Prerequisites:** EXSC 223, EXSC 224.

**Graduation with Leadership Distinction:** GLD: Research

EXSC 355 - Special Topics in Exercise Science (1-3 Credits)
Novel and emerging themes in exercise science. Content varies by instructor and title. May be repeated for a total of 6 credit hours as content varies by title.

EXSC 395 - Research Seminar in Exercise Science (3 Credits)
The research process in exercise science; participation in, presentation and discussion of current research.
**Prerequisites:** EXSC 223, EXSC 224.

**Graduation with Leadership Distinction:** GLD: Research

EXSC 401 - Practicum Preparation (1 Credit)
Integration of major program of study and general education; issues of transition into senior practicum - EXSC 444.
**Prerequisites:** EXSC 330.
EXSC 410 - Psychology of Physical Activity (3 Credits)
Introduction to psychosocial factors in physical activity. Topics include mental health effects of exercise, behavior change theories applied to physical activity, and physical activity determinants and interventions.
Prerequisites: PSYC 101.

EXSC 444 - Exercise Science Practicum (6 Credits)
Supervised experience in a field, clinical, or research setting. EXSC majors only.
Prerequisites: EXSC 401.

EXSC 454 - Health/Fitness Programs (3 Credits)
Design and implementation of health/fitness programs.
Prerequisites: EXSC 223, EXSC 224.

EXSC 464 - Conditioning Methods in Athletic Performance (3 Credits)
Students will learn how to perform pre-exercise assessments, develop appropriate exercise training programs based on these assessments, as well as lead and demonstrate safe and effective methods of exercise by the application of the primary theories and principles of exercise science.
Prerequisites: C or better in both EXSC 224 and EXSC 224L.

EXSC 481 - Practicum in Community Fitness Programs (9 Credits)
Supervised experience in the administration of community-based fitness programs. Concurrent seminar with the supervising instructor.
Prerequisites: EXSC 223, EXSC 224, EXSC 341, EXSC 330, EXSC 330L, EXSC 531.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EXSC 482 - Internship in Life-Span Motor Development (9 Credits)
Supervised practical experience in clinical and/or field setting; individualized program and activity planning, and evaluation of neuromuscular abilities.
Prerequisites: EXSC 223, EXSC 224, EXSC 303, EXSC 342, EXSC 342B.

EXSC 483 - Internship in Scientific Foundations (3 Credits)
Supervised experience in a clinical, field, or research setting. Restricted to Exercise Science Majors; Junior and Senior Level Standing.
Prerequisites: EXSC 223, EXSC 224.

EXSC 499 - Independent Study (1-3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor.
Prerequisites: EXSC 223, EXSC 224.

Graduation with Leadership Distinction: GLD: Research

EXSC 507 - Exercise, Sport, and Nutrition (3 Credits)
The relationship between exercise, sport performance, and nutrient metabolism.
Prerequisites: EXSC 223, EXSC 224, EXSC 330, EXSC 330L.

EXSC 531 - Clinical Exercise Physiology (3 Credits)
Scientific bases of clinical exercise programming. The fitness instructor's role in encouraging changes in exercise behavior.
Prerequisites: EXSC 223, EXSC 224, EXSC 330, EXSC 330L.
Corequisite: EXSC 531L.

EXSC 531L - Clinical Exercise Physiology Lab (0 Credits)
Prerequisite: EXSC 223, EXSC 224, EXSC 330, EXSC 330L.

EXSC 541 - Physiological Basis for Strength and Conditioning (3 Credits)
Investigation on the physiological basis for strength and conditioning. Principles of strength and conditioning through lecture based learning, demonstrations, and through laboratory activities.
Prerequisites: C or better in EXSC 330.

EXSC 555 - Current Topics in Exercise Science (1-3 Credits)
Content varies by title. Course may be repeated for a total of 6 credit hours.

EXSC 562 - Impairments of the Human Motor System (3 Credits)
Role of motor development in the growth and development of individuals exhibiting impaired motor control.
Prerequisites: biology, anatomy, physiology, or the equivalent.

EXSC 563 - Physical Activity and the Physical Dimensions of Aging (3 Credits)
The effects of age and physical activity on physical and motor functions of elderly individuals.
Prerequisites: EXSC 223, EXSC 224, EXSC 351, EXSC 330, EXSC 330L.

EXSC 585 - Women’s Health and Physical Activity (3 Credits)
Sex differences in diseases, physiological function of sex hormones, hormonal changes in a woman’s life, specific women's health issues, and role of physical activity and exercise in prevention and treatment of conditions and diseases specific to women or related to sex hormones. Restricted to 30 students, Special Permission by Instructor.

EXSC 608 - Apps, Wearables and Technology for Lifestyle Behavior Change and Weight Loss (3 Credits)
The course will increase students’ understanding of the theoretical foundations, scientific evidence and practical application of technology-assisted lifestyle interventions, with an emphasis on behavioral weight control for adults.
Prerequisites: C or better in EXSC 410.

EXSC 620 - Nutrition and Immunology (3 Credits)
Examination of the interrelationships that link human nutrition to the immune system in health and disease. Topics will include basic immunology, overview of nutritional sources, deficiencies and excesses, and the impact on public health issues such as exercise, disease and aging.
Prerequisites: EXSC 330.

EXSC 626 - Cardiorespiratory Exercise Physiology (3 Credits)
Examination of the anatomy and function of the cardiovascular and respiratory systems of the exercising human organism, including acute adjustments and chronic adaptations to the systems.
Prerequisites: EXSC 330.

EXSC 666 - Cardiorespiratory Exercise Physiology (3 Credits)
Examination of the anatomy and function of the cardiovascular and respiratory systems of the exercising human organism, including acute adjustments and chronic adaptations to the systems.
Prerequisites: EXSC 330.

EXSC 669 - Skeletal Muscle Physiology: Form and Function (3 Credits)
Skeletal muscle physiology and exercise through select laboratory experiences and discussion of related research literature.
Prerequisites: C or better in both EXSC 330 and EXSC 330L.
EXSC 695 - Writing and Presenting in Research (3 Credits)
The research process in Exercise Science through participation, presentation, and discussion of current research.  
Prerequisites: EXSC 224.

Film and Media Studies (FAMS)

FAMS 110 - Media Culture (3 Credits)
Introduction to the critical study of film, video, photography, audio, and new media.  
Cross-listed course: MART 110  
Carolina Core: AIU

FAMS 180 - Film Culture (3 Credits)
How the film industry developed and the impact the movies have had on global popular culture. Does not count toward the film studies major.  
Carolina Core: AIU

FAMS 240 - Film and Media Analysis (3 Credits)
Introduction to the critical study of film and media. Students will closely analyze moving images and develop written arguments about film and media.  
Carolina Core: AIU

FAMS 300 - Film and Media History (3 Credits)
Surveys the development of cinema and related media from the 1820s to the present. Attention to the relations among key technological, cultural, and industrial changes, their causes, and consequences.  
Carolina Core: GHS

FAMS 301 - Media, Power & Everyday Life (3 Credits)
Foundational approaches to media as a means of defining and distributing social power in everyday life.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 308 - Global Media Industries (3 Credits)
Provides the foundation for the study of globalized film and media industries.  
Cross-listed course: GLST 308

FAMS 310 - Special Topics In Popular Media (3 Credits)
Intensive study of a specific topic in popular film and media. May be repeated up to three times for a total of nine credit hours as content varies by title.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 311 - Classical Hollywood Cinema (3 Credits)
Survey of Classical Hollywood Cinema in aesthetic, cultural, political, and economic contexts.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 316 - Music and the Hollywood Film (3 Credits)
Examination of how music guides audience interpretation and shapes Hollywood film style.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 325 - Superheroes across Media (3 Credits)
Examination of the superhero within and across media, industries, and eras addressing topics such as genre, style, seriality, remediation, franchising, and fandom.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 350, or ENGL 350.

FAMS 328 - The Blockbuster (3 Credits)
Examination of the post-1975 blockbuster film phenomenon with an emphasis on marketing, finance, and reception.  
Prerequisite or Corequisite: C or better in FAMS 308.

FAMS 330 - Special Topics in Non-Film Media (3 Credits)
Intensive study of a specific topic concerning a medium or mediums other than film. May be repeated up to three times for a total of nine credit hours as content varies by title.  
Prerequisites: C or better in FAMS 240 or FAMS 300.

FAMS 332 - American Television (3 Credits)
Examination of American television as an industry, art form, medium of social representation, and set of viewer practices.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 338 - Contemporary British Television Industry (3 Credits)
Examination of industrial structures, network histories, production cultures, and regulation contexts of contemporary British television.  
Prerequisite or Corequisite: C or better in FAMS 308.

FAMS 350 - Introduction to Comics Studies (3 Credits)
Scholarly study of the formal and aesthetic evolutions of graphic novels, comic books, and other related forms.  
Cross-listed course: ENGL 350

FAMS 360 - Special Topics in Global Media (3 Credits)
Intensive study of a specific topic in film and media centered outside the U.S. May be repeated up to three times for a total of nine credit hours as content varies by title.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 361 - Middle East on Screen (3 Credits)
Examines representations of the Middle East on screen within multiple media-making traditions and considers their aesthetic, political, and ethical dimensions.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 363 - Hong Kong Action Cinema (3 Credits)
Survey of the transnational history of Hong Kong action cinema and introduction to critical approaches through which it has been studied.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 365 - Screening China (3 Credits)
Survey of Chinese language cinema. Chinese film history and vocabulary with which to discuss film texts. Covers classic leftwing cinema, Hong Kong martial arts films, as well as the Hong Kong, Taiwan, and PRC New Waves. Taught in English. Films subtitled.  
Cross-listed course: CHIN 365

FAMS 380 - Special Topics in Alternative Media (3 Credits)
Intensive study of a specific topic concerning film and media forms and/or practices outside the commercial mainstream. May be repeated as many as three times for a total of nine credit hours as content varies by title.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 381 - History of Experimental Film (3 Credits)
Survey of key examples and tendencies in the history of experimental film.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.

FAMS 383 - Documentary Studies (3 Credits)
History, theory, and practices of documentary film and media.  
Prerequisite or Corequisite: C or better in FAMS 240 or FAMS 300.
FAMS 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and program director is required.
Graduation with Leadership Distinction: GLD: Research

FAMS 470 - Genre Studies Film & Media (3 Credits)
Critical study of a popular genre (e.g., horror, science fiction, melodrama), or set of genres, in film and media. Course content varies and will be announced in the schedule of courses by title. May be repeated as topics vary.
Prerequisite or Corequisite: C or better in FAMS 308.

FAMS 510 - Topics in Film Media Histories (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

FAMS 511 - Special Topics in Film and Media Studies (3 Credits)
Intensive study of a specific topic in film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: ARTH 551, MART 591

FAMS 566 - Topics in US Film and Media (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

FAMS 581 - Critical Interactives (3 Credits)
Foundational techniques in multidisciplinary software development, specifically of applications designed to present sensitive, sometimes controversial, materials in ways to engender empathetic awareness of the interactor.
Cross-listed course: CSCE 571

FAMS 598 - Special Topics in Global Film and Media (3 Credits)
Intensive study of a specific topic concerning films produced in a country other than the United States. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: FORL 598, MART 594
Graduation with Leadership Distinction: GLD: Global Learning

Finance (FINA)

FINA 101 - Introduction to Personal Finance (1 Credit)
Course will provide a basic framework for student personal financial management while in college. Topics include money management skills, banking, credit cards, creditworthiness, credit reports, students loans, identity theft, and basic taxes.

FINA 301 - Money and Banking (3 Credits)
The role of money in the market economy. Commercial banks, the Federal Reserve System, and monetary policy.
Prerequisites: ECON 221 and ECON 222, or ECON 224.

FINA 333 - Finance and Markets (3 Credits)
In-depth introduction to the world of finance. Interaction of individuals and companies with financial markets.
Prerequisites: ECON 224 or ECON 221 and ECON 222, ACCT 222.

FINA 341 - Management of Risk and Insurance (3 Credits)
Introduction to decision making under uncertainty and overview of how various markets allow individuals and organizations to diversify risk. Includes measurement of risk, behavioral bias in decision making under uncertainty, diversification of risk, the role of capital in ensuring performance, moral hazard, adverse selection, insurance pricing, and applications to public policy issues such as health care, catastrophe risk, and safety regulation.
Prerequisite or Corequisite: FINA 363.

FINA 363 - Introduction to Finance (3 Credits)
Basic concepts of finance related to decision making.
Prerequisites: ECON 221, ACCT 225, and STAT 206.

FINA 364 - Financial Institutions (3 Credits)
A study of the functions and operations of financial institutions and their relationships to the commercial banking system and the general economy. Attention is devoted to savings institutions, insurance companies, rural and urban real estate credit, consumer credit, and associated topics.

FINA 365 - Corporate Financial Analysis (3 Credits)
Analysis of business investment and financing decisions.
Prerequisites: FINA 363.

FINA 366 - Introduction to Real Estate and Urban Development (3 Credits)
Real estate analysis and administration; basic principles, concepts, terminology, and institutional factors related to real estate decisions in the urban environment. This course fulfills a pre-examination requirement of the South Carolina Real Estate licensing law (30-hour approved course).
Prerequisites: FINA 363.

FINA 367 - Real Estate Market Analysis (3 Credits)
Concepts, methodologies, and analytical tools used in urban real estate analysis.
Prerequisites: FINA 366.

FINA 369 - Personal Finance (3 Credits)
Life insurance, health insurance, wills, trusts, Social Security, stocks, bonds, real estate, mutual funds, and other uses of funds.

FINA 442 - Life and Health Insurance (3 Credits)
Individual financial management of economic losses caused by premature death, disability, and old age; functional aspects of life-health insurer management.
Prerequisites: C or better in FINA 341 and FINA 363.

FINA 443 - Property and Liability Insurance (3 Credits)
Functional aspects of property-liability insurer management and operations including detailed treatment of pricing, risk assessment, marketing, investment, contract design, financial statement analysis, and regulation.
Prerequisites: C or better in FINA 341 and FINA 363.

FINA 444 - Corporate Risk Management (3 Credits)
Tools and concepts used by corporations in managing all types of risk with a focus on the use of derivatives and insurance. Analysis of when risk reduction is beneficial.
Prerequisites: C or better in FINA 341, FINA 363, and MGSC 291.
FINA 445 - Employee Benefits (3 Credits)
Management of employer-sponsored benefits, especially group life, health, and retirement plans; emphasis on plan design and administration, cost, funding, regulation, and tax considerations.
Prerequisites: FINA 341.

FINA 446 - Insurance Operations (3 Credits)
Innovative insurance operations to compete in the modern world.
Prerequisites: C or better in FINA 341 and FINA 363.

FINA 463 - Case Studies in Corporate Finance (3 Credits)
Application of financial concepts and tools to corporate decisions.
Prerequisites: FINA 365.

FINA 464 - Financial Innovation (3 Credits)
Explores the history, current environment, and near term outlook of financial innovation (FinTech), focusing on applications of Blockchain technology and Machine Learning tools. The course is designed to provide hands on experience in writing a "smart contract" using a blockchain and in applying machine learning tools.
Prerequisites: C or better in FINA 365 or FINA 465 or FINA 469.

FINA 465 - Commercial Bank Practice and Policy (3 Credits)
Fundamental principles underlying the employment of bank funds. Allocation of funds among the various classes of loans and investments to bank operating costs and to changing bank practices.
Prerequisites: FINA 363.

FINA 466 - Real Estate Investment Fundamentals (3 Credits)
Analysis and decision-making; return and risk; financing; tax implications; pricing and investment strategies.
Prerequisites: FINA 366 or FINA 469.

FINA 467 - Real Estate Finance (3 Credits)
The nature and importance of credit in real estate development and operations; legal framework, sources of mortgage funds, role of public and private financial institutions.
Prerequisites: FINA 366 or FINA 469.

FINA 468 - Real Estate Appraisal (3 Credits)
Traditional appraisal concepts and methodologies; appraisal process, real property analysis.
Prerequisites: FINA 366.

FINA 469 - Investment Analysis and Portfolio Management (3 Credits)
Conceptual and analytical framework for formulating investment policies, analyzing securities, and constructing portfolios.
Prerequisites: C or better in FINA 363 and MGSC 291.

FINA 470 - Financial Statement Analysis (3 Credits)
This course focuses on the analysis of financial statements for profitability and risk assessment and for firm and segment valuation.
Prerequisites: ACCT 225 and ACCT 226 and FINA 363.

Cross-listed course: ACCT 470

FINA 471 - Derivative Securities (3 Credits)
Options, forward and futures contracts, and swap contracts are analyzed, along with their uses in risk management, portfolio management, and corporate financing. Markets where these contracts trade will be examined.
Prerequisites: FINA 469.

FINA 472 - Student-Managed Investments (3 Credits)
Hands-on experience in investment analysis; managing a real portfolio, decision-making in the design of a portfolio management process, asset allocation, security selection, and risk management. Enrollment in this course requires a special permission from the instructor.
Prerequisites: C or better in MGSC 291.

Prerequisite or Corequisite: C or better in FINA 469.

FINA 473 - Corporate Governance and Agency Conflicts (3 Credits)
Exploring conflicts of interest between corporate managers and the providers of capital, and studying various mechanisms to address the misalignment of incentives and therefore restore firm value.
Prerequisites: C or better in FINA 363.

FINA 475 - Fixed Income Securities (3 Credits)
Examine fundamental principles of fixed-income securities and fixed-income valuation models.
Prerequisites: FINA 469.

FINA 476 - Foundations of Capitalism (3 Credits)
Examines the foundations of capitalism and why it has prevailed over alternative systems. Topics include the justification of private property, distribution of wealth, profit motive, source of wealth creation, and others.
Prerequisites: ECON 221 and ECON 222.

FINA 480 - Global Real Estate Capital Markets (3 Credits)
Global institutional investment in real estate; international capital markets viewed from the perspective of real estate investment and finance professionals.
Prerequisites: FINA 366.

FINA 490 - Special Topics in Finance (1-3 Credits)
1-3 credit hours for up to 9 credit hours total.

FINA 666 - Real Estate and Urban Development (3 Credits)
An overview of real estate in both the public and private sectors that serves as the basis for advanced study in the various disciplines of real estate and urban development. No prior knowledge of the field is assumed.

Foreign Languages (FORL)

FORL 398 - Selected Topics (3 Credits)
Studies in language not otherwise taught. May include a cultural and/or linguistic component.

FORL 448 - Teaching Internship in Foreign Languages (3 Credits)
Application of effective teaching techniques and organization of instructional settings in foreign languages for K-12.
Prerequisites: admission to the professional program in education.

Cross-listed course: EDTE 448
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

FORL 472 - Introduction to Technology in Language Education (3 Credits)
Acquaints students with principles and practices concerning the use of technology in foreign language teaching. Explores connection between second language acquisition and the implementation of Internet and multimedia technologies.
Cross-listed course: LING 472
FORL 474 - Directed Teaching in Foreign Languages (15 Credits)
Students apply methods of curriculum and assessment, professionalism, effective teaching, and organization of instructional settings during internship in foreign language classroom.
Prerequisites: admission to the professional program in education.
Cross-listed course: EDTE 474
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
Experiential Learning: Experiential Learning Opportunity

FORL 501 - Spanish for Medical Personnel (3 Credits)
Basic course in health professions. Functional language and lexicon as well as cultural practices for interaction with Hispanic clients.
Prerequisites: 2 semesters of college-level Spanish or equivalent.

FORL 510 - Teaching Second Languages to Young Children (3 Credits)
To assist prospective teachers of young children in the development of a second language and multicultural learning activities. Practicum sessions are an integral part.
Prerequisites: 210 level of a foreign language or its equivalent.
Cross-listed course: EDEL 510
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

FORL 511 - Teaching Foreign Languages in Secondary Schools (3 Credits)
Current methods, techniques, and materials of instruction appropriate for secondary schools.
Prerequisites: 210 level of a foreign language or its equivalent.
Cross-listed course: EDSE 575

FORL 598 - Special Topics in Global Film and Media (3 Credits)
Intensive study of a specific topic concerning films produced in a country other than the United States. May be repeated as content varies by title.
Prerequisites: FAMS 240.
Cross-listed course: FAMS 598, MART 594

French (FREN)

FREN 109 - Beginning French I (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Admission to FREN 109 restricted to those who have never studied French, who have not studied French in the previous five years, or who have a score of F-1 on the placement test.
Carolina Core: GFL

FREN 110 - Beginning French II (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Admission to 110 restricted to those who have completed FREN 109. Credit may be received only for one of the following: FREN 109/FREN 110 or FREN 121.
Prerequisites: FREN 109.
Carolina Core: GFL

FREN 121 - Elementary French (3 Credits)
Grammar and vocabulary necessary for fundamental communication skills. Assumes prior experience in French. Admission to FREN 121 restricted to those who have a score of F-2 on the placement test. Credit may be received for only one of the following: FREN 109/FREN 100 or FREN 121.
Carolina Core: GFL

FREN 122 - Basic Proficiency in French (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: FREN 110, FREN 121 or placement score of F-3.
Carolina Core: GFL

FREN 209 - Reading and Written Expression (3 Credits)
Readings in French; grammar, basic writing, and composition.
Prerequisites: FREN 122 or score of F-5 on placement exam.

FREN 210 - Oral Communication (3 Credits)
Practice in conversation involving authentic listening materials; vocabulary building.
Prerequisites: FREN 122 or score of F-5 on placement exam.

FREN 290 - French Literature in Translation (3 Credits)
Readings and discussion in English, with consideration of the cultural context.
Carolina Core: AIU

FREN 295 - Topics in French Culture (3 Credits)
Intensive one-term study of a particular topic identified by title. Taught in English.
Prerequisites: FREN 110, FREN 121, or equivalent.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

FREN 300 - French Phonetics (3 Credits)
Analysis of and practice in pronunciation and listening comprehension.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam.
Cross-listed course: LING 316

FREN 307 - Advanced Oral Practice (1 Credit)
Development and maintenance of speaking and listening skills at the advanced level. Offered Pass-Fail only. May be repeated.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam.

FREN 309 - Reading French Texts (3 Credits)
Reading, discussion, and written analysis of French texts, both literary and nonliterary.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam.

FREN 310 - Advanced Oral Communication (3 Credits)
Current issues and events presented in French-language media. Discussion and presentations in French provide practice with advanced structures and idiomatic speech.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam. Not open to students with a score of F-7.

FREN 311 - French Composition (3 Credits)
Practice in French composition; intensive review of French grammar.
Prerequisites: Grades of C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam. FREN 309 strongly recommended. Not open to students with score of F-7.
FREN 316 - Introduction to Business French (3 Credits)
Practical oral and written communication in a commercial context; introduction to business terminology and correspondence.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents.

FREN 330 - The French Theatre Experience (3 Credits)
Project work in the production of plays in French. Includes readings in and public performance of French theatre and related materials.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents.

FREN 350 - French Language Study Abroad (1-6 Credits)
Intensive language practice with special attention to oral skills. Classroom instruction by native speakers.

FREN 351 - Service Learning in the French-Speaking World (3 Credits)
Cultural and linguistic service-learning experience in a French-speaking environment. Course may be repeated once in a different location.
Prerequisites: FREN 209 or 210.

FREN 397 - The French Film Experience (3 Credits)
An introduction to the history of the French film, with special emphasis on the aesthetic appreciation of the films in their artistic and cultural context. Films in French, with English subtitles. Taught in English. To be counted towards FREN major or minor.
Prerequisites: C or better in both FREN 209 and FREN 210 are required, and FREN 309 is strongly recommended.

FREN 398 - Selected Topics in French & Francophone Culture (3 Credits)
Intensive study of selected topics of the French-speaking world. May be repeated for credit under a different title. May not be counted for major or minor credit. Note: Taught in English. To be counted towards FREN major or minor.
Prerequisites: C or better in both FREN 209 and FREN 210 are required, and FREN 309 is strongly recommended.

FREN 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-6 on the French language placement exam.

FREN 400 - French Cultural History (3 Credits)
French history and the arts from early times through the Napoleonic era.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 416 - Advanced Business French (3 Credits)
Commercial organizations and businesses in France. Practical business correspondence. Terminology and techniques in commercial transactions with the Certificat Pratique of the Paris Chamber of Commerce in view. Taught in French.
Prerequisites: FREN 316.

FREN 450 - Topics in Literature (3 Credits)
May be repeated for credit.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 451 - French Literature and Culture Before 1800 (3 Credits)
Study and discussion of French works written before 1800 within their cultural and historical contexts.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 452 - French Literature and Culture After 1800 (3 Credits)
Study and discussion of French works written after 1800 within their cultural and historical contexts.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 453 - Francophone Literatures and Cultures (3 Credits)
Study and discussion of works from French-speaking societies outside France, with attention to their cultural contexts and historical contexts.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

Graduation with Leadership Distinction: GLD: Global Learning

FREN 499 - Senior Thesis (3 Credits)
Graduation with Leadership Distinction: GLD: Research

FREN 501 - Contemporary France (3 Credits)
Readings in and discussion of the culture of contemporary France.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 510 - Current Events in the France and the Francophone World (3 Credits)
Development of advanced oral skills in French. Study of linguistic and cultural aspects of French language media.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 511 - Techniques of Literary Analysis (3 Credits)
Texts from standard authors, with emphasis on explication de texte.
Prerequisites: C or better in each of FREN 309, FREN 310, and FREN 311, or equivalents, or a score of F-7 on the French language placement exam.

FREN 515 - Advanced French Stylistics (3 Credits)
Practice in descriptive and narrative composition with special attention to contrastive stylistics; thâ¨me et version.
Prerequisites: C or better in each of FREN 309, FREN 310, and FREN 311, or equivalents, or a score of F-7 on the French language placement exam.

FREN 516 - French Phonology (3 Credits)
The sound system and its functioning in the morphological system of French from the point of view of current phonological theory.
Cross-listed course: LING 512

FREN 517 - French Linguistics (3 Credits)
The structure, morphology, and syntax of modern French.
Cross-listed course: LING 502
FREN 595 - Special Topics in French (3 Credits)
Poetry, prose, theatre, cinema, civilization, language, linguistics. Unique opportunities will be announced by title. May be repeated.
Prerequisites: C or better in both FREN 309 and FREN 310, or equivalents, or a score of F-7 on the French language placement exam. FREN 311 strongly recommended.

FREN 615 - Intensive Readings in French (3 Credits)
Graduate students fulfill their foreign-language reading requirement with successful completion of the course. Undergraduates may take the course as an elective only. Grades S/U for graduates and undergraduates.

Genetic Counseling (HGEN)

HGEN 400 - Genetic Counseling: Career for the Future (1 Credit)
Introduction to the genetic counseling profession including professional literature and online resources. Preparation for graduation education in genetic counseling.

Geography (GEOG)

GEOG 103 - Introduction to Geography (3 Credits)
Carolina Core: GSS

GEOG 104 - Introduction to Physical Geography (3 Credits)
Basic concepts of landform geography, climatology and meteorology, and biogeography.
Carolina Core: SCI

GEOG 105 - The Digital Earth (3 Credits)
Introduction to geographic data; use of digital maps and aerial/satellite images as means of Earth observation; basics of spatial data analysis; location-based Web APPs; digital map services.
Carolina Core: ARP

GEOG 121 - Globalization and World Regions (3 Credits)
Introduction to political, economic, social, and environmental processes of global integration and regional differentiation.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

GEOG 201 - Landform Geography (4 Credits)
Hydrology, soil science, and interpretation of physical features formed by water, wind, and ice, with emphasis on environmental change. Three hours of lecture and one two-hour laboratory per week.
Carolina Core: SCI

GEOG 202 - Weather and Climate (4 Credits)
Processes that influence weather and climate patterns on the earth. Three lectures and one two-hour laboratory per week.
Carolina Core: SCI

GEOG 210 - Peoples, Places, and Environments (3 Credits)
Basic principles of human geography.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

GEOG 221 - Geography of South Carolina (3 Credits)
An intensive regional analysis of South Carolina. Selected phenomena such as urbanization, industrialization, land use, the physical environment, and their interrelationships.
Carolina Core: GSS

GEOG 223 - Geography of Latin America (3 Credits)
Physical and human geography of Latin America.
Cross-listed course: LASP 331
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

GEOG 224 - Geography of North America (3 Credits)
Physical and human geography of North America with emphasis on the United States.
Carolina Core: GSS

GEOG 225 - Geography of Europe (3 Credits)
Physical and human geography of Europe.
Carolina Core: GSS

GEOG 226 - Geography of the Middle East (3 Credits)
A regional geographic approach to the environmental, social, economic, and political aspects of the Middle East (Southwest Asia and north Africa) with emphasis on contemporary problems.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

GEOG 228 - Geography of Sub-Saharan Africa (3 Credits)
A regional approach to the physical, social, economic, and political aspects of Sub-Saharan Africa with emphasis on contemporary problems.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

GEOG 285 - Introduction to Drones for Airborne Spatial Data (3 Credits)
This course is an introduction to the use of small unmanned aerial systems (UAS) in collecting/processing imagery for mapping/information analysis. Course content includes UAS characteristics, small camera considerations, project planning and processing, and legal requirements in the United States and selected European countries.

GEOG 301 - Topics in Geography (3 Credits)
Selected topics of special interest in geography. May be repeated as content varies by title.

GEOG 311 - Cultural Geography (3 Credits)
The temporal-spatial relationship between humans and the natural environment with emphasis on the role through time of human activity in changing the face of the earth.

GEOG 312 - Geography and Global Geopolitics (3 Credits)
Geographic perspectives on problems in international relations. Political geographic analysis of contemporary world problems.
Graduation with Leadership Distinction: GLD: Global Learning

GEOG 313 - Economic Geography (3 Credits)
Spatial interrelation and linking of economic activities and how location affects the nature of economic systems.

GEOG 321 - Sustainable Cities (3 Credits)
Overview of the relationships between urbanization and environmental processes and an exploration of pathways to greater sustainability.

GEOG 324 - Landscapes of the United States (3 Credits)
Geographic change through time in the United States, with emphasis on evolution of the American landscape. Physical environment as modified by human intervention over time within a regional framework.

GEOG 330 - The Geography of Disasters (3 Credits)
The study of disasters, their triggering mechanisms (natural, human, technological), their spatial distributions from local to global scales, and associated human responses.
GEOG 341 - Cartography (3 Credits)
Introduction to the theory and principles of map construction including discussions of equipment and materials, lettering and symbolization, scale and generalization, data manipulation and representation. Presentation of geographic information on maps.

GEOG 343 - Environment and Society (3 Credits)
A geographic consideration of the interactions between environment and society. The ways in which social, economic, and cultural processes interact across local to global scales and influence environmental practices, policies, and patterns of change will be emphasized.

GEOG 344 - Geographies of American Cities (3 Credits)
Overview of the development of American cities from industrial period to the present. Special attention given to the political, economic, social processes that shape urban space and urban ways of life.

GEOG 345 - Interpretation of Aerial Photographs (3 Credits)
Theory and use of basic photo interpretation instruments and methods. Practice in acquiring and interpreting data from aerial photography for use in the physical and social sciences.

GEOG 346 - Climate and Society (3 Credits)
Major theories and methodologies for studying the relationship between climate and society.

GEOG 347 - Water as a Resource (3 Credits)
Introduction to spatial and institutional aspects of water availability, demand, and quality. Water storage/conveyance strategies and facilities. Real and perceived flood, drought hazards.

GEOG 348 - Biogeography (3 Credits)
Spatial distributions of plants and animals as they relate to historical biogeographic patterns and human impact on the biosphere.

GEOG 349 - Cartographic Animation (3 Credits)
Introduction to theories and principles of cartographic animation. Prerequisites: GEOG 341 or GEOG 363.

GEOG 360 - Geography of Wind (3 Credits)
Fundamental principles of wind formation, measurement, and its impacts on the natural and human environment – landscape, human settlement and health, transportation, and energy.

GEOG 363 - Geographic Information Systems (3 Credits)
Introduction to principles and methods of geographic information systems including discussion of computers, spatial data, analysis, and display. Includes discussion of applications and hands-on experience.

GEOG 365 - Hurricanes and Tropical Climatology (3 Credits)

GEOG 370 - America’s National Parks (3 Credits)
Resource, managerial, and recreational-use components of the national park system; contemporary issues, problems, and managerial alternatives.

GEOG 371 - Air Pollution Climatology (3 Credits)
Fundamentals, processes, and issues associated with air pollution. Emphasis is on the role of the atmosphere, how air pollution affects surface climate, and how climate and meteorology influence air quality.

GEOG 378 - World Tourism Geography (3 Credits)
Geographic analysis of tourism in America and selected world regions; demand, supply, transportation, and cultural/environmental impact of tourism and travel.

GEOG 380 - Global Geography of Human Rights (3 Credits)
Geopolitical, historical, cultural, and economic geographies of human rights around the world; issues of development, environment, health, inequality, violence.

GEOG 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

GEOG 495 - Seminar in Geography (3 Credits)
Research methods and projects; restricted to students with at least 15 hours of credit in geography. Restricted to students with at least 15 hours of credit in geography.

Graduation with Leadership Distinction: GLD: Research

Experiential Learning: Experiential Learning Opportunity

GEOG 497 - Special Topics: Service Learning in Geography (1 Credit)
Service learning experience in conjunction with designated Geography courses. Direct, hands-on service experience with an agency, voluntary organization, or community-based project. May be repeated, as content varies by title. Students enrolled in designated Geography courses by Instructor permission.

Corequisite: Must be taken simultaneously with designated Geography courses, levels 200 and above.

Experiential Learning: Experiential Learning Opportunity

GEOG 498 - Undergraduate Research (3 Credits)
Research on a significant geography problem in the local environment. Emphasis will be on the development of relatively individualized experiences in scientific investigation.

Graduation with Leadership Distinction: GLD: Research

GEOG 499 - Senior Thesis (3 Credits)
Senior research thesis on a problem of fundamental geographic significance, supervised by faculty member; must include a written final project report.

Graduation with Leadership Distinction: GLD: Research

GEOG 510 - Special Topics in Geographic Research (3 Credits)
Selected topics of special interest in geography. May be repeated as content varies by title.

GEOG 511 - Planning and Locational Analysis (3 Credits)
Scientific approaches to locational problems in urban and regional planning, including regional growth and decline, land use control, public facility location and provision, and locational efficiency.

GEOG 512 - Migration and Globalization (3 Credits)
A survey of the political, economic, and social causes and consequences of migration. Topics include immigration policy, border control, settlement patterns, transnationalism, multiculturalism, and integration. Selected contemporary and historical cases.

Prerequisites: GEOG 210.

GEOG 515 - Political Geography (3 Credits)
Concepts of space and power and their relationship to politics, elections, geopolitics, identities, law, economics, populations, and civil society.

GEOG 516 - Coastal Zone Management (3 Credits)
Analysis of the competing demands for limited resources in the coastal zone with emphasis on the role of management in the resolution of conflicts over resource use.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
GEOG 521 - Landscapes of South Carolina (3 Credits)
An examination of the factors responsible for creating the contemporary South Carolina cultural landscape.

GEOG 525 - Geographical Analysis of Transportation (3 Credits)
Analysis of transportation systems and the application of geographic tools to transportation planning.

GEOG 530 - Environmental Hazards (3 Credits)
Human and environmental contributions to the generation and management of hazards originating from extreme natural events to technological failures. Contemporary public policy issues at the national and international level.

GEOG 531 - Quantitative Methods in Geographic Research (3 Credits)
A survey of basic quantitative approaches for handling and interpreting geographically related data; univariate and bivariate procedures applicable to a variety of problems.

GEOG 535 - Hazards Analysis and Planning (3 Credits)
Examination of the geo-spatial aspects of hazards analysis and planning with specific reference to disaster preparedness, recover, mitigation, and resilience.
Prerequisites: GEOG 363 and GEOG 530, or equivalents.

GEOG 538 - Global Food Politics (3 Credits)
Political, social, and cultural landscapes of food and farming around the world; issues of agricultural production, trade, consumption, and food security.
Cross-listed course: ENVR 538

GEOG 541 - Advanced Cartography (3 Credits)
Planning, compiling, constructing, and evaluating thematic maps. Theory and practice in scribing, separation and screening, color proofing, and map reproduction. Discussions of the process of map communication and the ways the cartographer can improve that communication.
Prerequisites: GEOG 341.

GEOG 542 - Dynamic Cartography (3 Credits)
Theories and principles of interactive and animated cartographic design.
Prerequisites: GEOG 341.

GEOG 544 - Geography of the City (3 Credits)
The influence of political boundaries, historical forces, settlement patterns, and transportation processes on urban life.

GEOG 545 - Synoptic Meteorology (4 Credits)
Analysis of synoptic-scale circulation using weather maps, soundings, cross sections, thermodynamic diagrams, numerical models, and imagery.
Prerequisites: GEOG 202 or equivalent.

GEOG 546 - Applied Climatology (4 Credits)
Analysis of climate applications in natural and human-modified environments. Content may include water resources, solar energy, urban planning, air quality, agriculture, and tourism. Course work includes lab and field experimentation.

GEOG 547 - Fluvial Geomorphology (3 Credits)
Introduction to landforms and processes associated with flowing water at the earth's surface. Hydrology, sedimentology, and theories of channel formation and drainage basin evolution.

GEOG 549 - Water and Watersheds (3 Credits)
Spatial variation of hydrology, water quality, and water-related hazards, including runoff generation, soil erosion, sedimentation, and flood hazards. Emphasizes a watershed perspective using geographic data and methods.
Prerequisites: GEOG 347, GEOL 371, or ECIV 360.

GEOG 551 - Principles of Remote Sensing (3 Credits)
Introduction to remote sensing. A variety of imaging systems including black and white, color, and high altitude color infrared photographs, LANDSAT, thermal infrared, and active microwave. Use of remote sensing for studying the extra-terrestrial environment and earth weather systems.

GEOG 552 - LiDARgrammetric and Photogrammetric Digital Surface Mapping (3 Credits)
Introduction to fundamental concepts used to map topographic and planimetric Earth surface features using digital LiDAR (LiDARgrammetric) and digital soft-copy photogrammetry (Photogrammetric).
Prerequisites: GEOG 363 or GEOG 341 or GEOG 345 or GEOG 551 or GEOG 563.

GEOG 554 - Spatial Programming (3 Credits)
Computer programming of spatial problems; spatial statistical analysis, interactive graphics, and computer maps.

GEOG 556 - WebGIS (3 Credits)
Web-based Geographic Information Systems (WebGIS), including concepts and principles of WebGIS, web programming fundamentals, web-based mapping techniques, and developing WebGIS applications.
Prerequisites: GEOG 363.

GEOG 560 - Source Materials for Geographic Instruction (3 Credits)
Introduction to selected materials available for all levels of instruction in geography. Emphasis on the substantive nature of the materials.
Cross-listed course: EDSE 505

GEOG 561 - Contemporary Issues in Geography Education (3 Credits)
Key concepts of geography and current approaches to teaching geography with specific attention to classroom materials, curriculum reform, cross-curricular integration, learning theory, and the use of geospatial/instructional technology.

GEOG 562 - Satellite Mapping and the Global Positioning System (3 Credits)
Technology and use of Global Positioning Systems (GPS). GPS space segment, receiver technologies, range observables, and positioning accuracy. Applications to large/medium scale mapping, remote sensing, and aerial photography.
Prerequisites: GEOG 345 or GEOG 363 or GEOG 551.

GEOG 563 - Advanced Geographic Information Systems (3 Credits)
Theory and application of geographic information systems including discussions of automated input, storage, analysis, integration, and display of spatial data. Use of an operational geographic information system.

GEOG 564 - GIS-Based Modeling (3 Credits)
Geographical information systems for modeling physical/human processes in space and time using raster and vector data. Cartographic modeling concepts, embedded models, and GIS-model coupling.

GEOG 565 - Geographic Information System (GIS) Databases and Their Use (3 Credits)
Representation, construction, maintenance, and analysis of spatial data in a geographic information system (GIS) database.
Prerequisites: GEOG 363 or GEOG 341 or GEOG 551 or GEOG 563.
GEOG 566 - Social Aspects of Environmental Planning and Management (3 Credits)
Geographical approach to environmental problems.
Prerequisites: GEOG 343.

GEOG 567 - Long-Term Environmental Change (3 Credits)
Climatic changes of the past and their impact on the physical landscape, with an emphasis on the Quaternary period.
Prerequisites: A 200-level course in physical geography or geology or equivalent.
Cross-listed course: GEOL 567

GEOG 568 - Human Dimensions of Global Environmental Change (3 Credits)
Consequences of increasing anthropogenic changes on environmental systems including the sources of change, regional impacts, and social and policy responses.
Prerequisites: GEOG 343.

GEOG 569 - International Development and the Environment (3 Credits)
Intersections of international development and environmental change; study of general theoretical perspectives balanced with case studies from the Global South.
Cross-listed course: ANTH 569
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

GEOG 570 - Geography of Public Land and Water Policy (3 Credits)
Geography of public land, water, and related public trust resources (wildlife, timber, minerals, fuels, recreation, wetlands, coastal zones, wilderness); historical geography of policy; spatial aspects of current research and management.

GEOG 571 - Microclimatology (4 Credits)
Field techniques and processes in the atmospheric boundary layer including radiation, soil heat fluxes, turbulence, momentum, latent and sensible heat fluxes, moisture, and evaporation.
Prerequisites: GEOG 202.

GEOG 573 - Climatic Change and Variability (3 Credits)
Observations and theories of climatic change and variability as they occur at different space and time scales. Projections of future climates. Techniques used in climatic change research and impact analysis.
Prerequisites: GEOG 202 or equivalent.

GEOG 575 - Digital Techniques and Applications in Remote Sensing (3 Credits)
Introduction to digital image processing techniques and applications. Image correction, enhancement, spatial and spectral transformation. Land use/land cover classification, and change detection.
Prerequisites: GEOG 551 or equivalent.

GEOG 581 - Globalization and Cultural Questions (3 Credits)
This course examines cultural understandings of and responses to globalization, examining topics such as its history and theories, migration, economic integration and inequality, identity, social movements, and the environment.
Cross-listed course: ANTH 581
Graduation with Leadership Distinction: GLD: Global Learning

GEOG 590 - Beach-Dune Interactions (3 Credits)
Influence of wind on coastal systems, with emphasis on nearshore currents, sediment transport and bedforms, aeolian transport, and dunes. Minimum Junior standing required.
Cross-listed course: MSCI 590

GEOG 595 - Internship in Geography (1-6 Credits)
Internship in government agencies, private-sector businesses, and non-profit organizations under the joint supervision of sponsor and departmental. A maximum of three credits may be applied to undergraduate Geography major or to Geography master's degree. May be repeated to a maximum of six credits.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

Geology (GEOL)

GEOL 101 - Introduction to the Earth (4 Credits)
Origin and nature of the earth with emphasis on internal processes and phenomena such as earthquakes, volcanoes, and mountain building; surface processes, including landform evolution. Three lectures and three laboratory hours each week.
Carolina Core: SCI

GEOL 102 - Fossils and the Evolution of Life on Earth (4 Credits)
Basic overview of fossils, including dinosaurs, and their importance for understanding earth history and the evolution of life. Three lectures and three laboratory hours each week.

GEOL 103 - Environment of the Earth (4 Credits)
Analysis of basic energy cycles of the earth. Interaction of human activity with earth processes to affect the environment. Three lectures and three laboratory hours each week. Field trips required.
Carolina Core: SCI

GEOL 110 - Cultural Geology (3 Credits)
The growth of geological concepts, scientific and non-scientific. The impact of geological factors on human affairs. The role of time and evolution (biological and physical). Restricted to non-science majors.
Carolina Core: SCI

GEOL 201 - Observing the Earth (4 Credits)
An introduction to study of the earth through observation of ancient and modern earth systems in a field setting. Field trips required.

GEOL 205 - Earth Resources (3 Credits)
Mineral, energy, and water resources with emphasis on geological processes governing their distribution. Intended for non-science majors. Three lecture hours each week with occasional field trips.
Carolina Core: SCI

GEOL 215 - Coastal Environments of the Southeastern U.S. (3 Credits)
Coastal zones of South Carolina and neighboring states, including geologic history, geomorphology, stratigraphy, hydrogeology, shoreline processes, environmental issues, and effects of man. Not available for geology major credit. Three lecture hours each week plus optional field trips.
Carolina Core: SCI

GEOL 215L - Coastal Environments of the Southeastern U.S. (Laboratory) (1 Credit)
Exercises examining coastal ecology, geomorphology, hydrogeology, shoreline processes, environmental issues, and human impact. Two laboratory hours per week. Scheduled field trips required. Not available for marine science major credit.
Cross-listed course: MSCI 215L
Carolina Core: SCI
GEOL 230 - Geology of the National Parks (3 Credits)
Examination of the geologic setting and scientific significance of selected National Parks. Three lecture hours.
Carolina Core: SCI

GEOL 250 - Continental Drift and Ice Ages (3 Credits)
An introduction to geology and geophysics. The structure of the earth, core, mantle, and crust; problems of facies, plate motions, and their probable influence on climate and evolution. Future prospects.

GEOL 302 - Rocks and Minerals (4 Credits)
Chemical and physical processes of mineral formation in earth systems including an overview of igneous, sedimentary, and metamorphic rock-forming processes. Includes laboratory. Field trips required.
Prerequisites: GEOL 101 or GEOL 103 or GEOL 201; CHEM 111 recommended.

GEOL 305 - Earth Systems through Time (4 Credits)
Survey of earth history, the evolution of continents and oceans, the history of life, and geological dating methods. Includes laboratory and recitation. Required field trips. Taught alternate years.

GEOL 315 - Surface and Near Surface Processes (4 Credits)
Overview of groundwater, surface water hydrology, sediment transport, river systems, and coastal processes. Includes laboratory and recitation. Required field trips.
Prerequisites: PHYS 201 or PHYS 211.

Graduation with Leadership Distinction: GLD: Research
GEOL 318 - Field Studies in Geology (1 Credit)
Directed field studies of extraordinary geological locations in North America. Requires a seven- to nine-day field trip during spring break.
Prerequisites: GEOL 101, GEOL 103, or GEOL 201 and consent of instructor.

Graduation with Leadership Distinction: GLD: Research
GEOL 325 - Stratigraphy and Sedimentary Basins (4 Credits)
Overview of sedimentary basins, sediment transport, sedimentation, depositional environments, stratigraphy, seismic stratigraphy, eustacy, and sedimentary petrology. Includes laboratory and recitation. Required field trips.
Prerequisites: GEOL 302.

GEOL 335 - Processes of Global Environmental Change (4 Credits)
The science of global change, its relation to the hydrosphere, atmosphere, lithosphere, and biosphere. Global system science, biogeochemical cycles, paleoclimatology, glaciation, and eustacy.
Cross-listed course: MSCI 335

GEOL 345 - Igneous and Metamorphic Processes (4 Credits)
Prerequisites: GEOL 302; MATH 122 or MATH 141.

GEOL 355 - Structural Geology and Tectonics (4 Credits)
Geologic structures and deformation of Earth materials. Stress and strain, deformation mechanisms, P-T-t paths, geologic maps, and structural regimes in plate tectonics. Includes laboratory and recitation. Required field trips.
Prerequisites: GEOL 302; PHYS 201 or PHYS 211.

GEOL 371 - A View of the River (3 Credits)
Introduction to terrestrial and tidal river morphology and processes, with case studies of South Carolina. Field trips required.
Prerequisites: GEOL 101 or GEOL 103 or GEOL 201.

GEOL 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research
GEOL 498 - Undergraduate Research (3 Credits)
Student research on problems of regional and fundamental significance, supervised by a faculty member of the student's choice. Emphasis is on the development of critical thinking and lucid scientific report writing.
Graduation with Leadership Distinction: GLD: Research
GEOL 499 - Undergraduate Research (3 Credits)
Student research on problems of regional and fundamental significance, supervised by a faculty member of the student's choice. Emphasis is on the development of critical thinking and lucid scientific report writing.
Graduation with Leadership Distinction: GLD: Research
GEOL 500 - Field Geology (4-6 Credits)
Geological field techniques including the use of field instruments and the preparation of geologic maps. Written and oral reports required.
Prerequisites: GEOL 325 and GEOL 355.

Graduation with Leadership Distinction: GLD: Research
GEOL 501 - Principles of Geomorphology (3 Credits)
The process of earth denudation with emphasis on chemistry of weathering, stream and erosion hydraulics, quantitative analysis of land form evolution.
Prerequisites: GEOL 101 and GEOL 102.

Cross-listed course: MSCI 501
GEOL 502 - Principles of Coastal Geomorphology (4 Credits)
Geological and physical controls on the morphology, development, and stability of coastlines. Analysis of waves and erosional processes, and coastal zone morphodynamics. Several required field trips.
Prerequisite or Corequisite: MATH 122 or MATH 141.

Cross-listed course: MSCI 502
GEOL 503 - Regional Stratigraphy and Biostratigraphy of North America (3 Credits)
Sedimentologic, biostratigraphic, and tectonic history of North America, approached from paleogeographic considerations with emphasis on the Atlantic Coastal Plain and Continental Margin. Three hours lecture and three hours recitation per week. Required field trips.

GEOL 508 - Palynology (3 Credits)
Fundamentals of pollen analysis including morphology of modern and fossil forms, use of pollen and spores for correlation, dating, establishing phylogenetic trends, and reconstruction of ancient environments. Two lectures plus one two-hour lab per week.

GEOL 510 - Organic Sedimentation and Coal Genesis (3 Credits)
Theories of origin of coal deposits and coal-forming ingredients. Basic concepts of coal composition and classification. Practical applications of coal petrographic techniques. Two lectures plus one two-hour lab. Two optional field trips.
GEOL 511 - Advanced Paleontology (3 Credits)
Systematic, ecologic, biogeographic, and evolutionary aspects of paleontology; lectures, practical exercises, field trips.
Prerequisites: GEOL 305.
Cross-listed course: MSCI 511

GEOL 515 - Marine Micropaleontology (4 Credits)
Marine microfossils; distribution, ecology, paleoecology, and biostratigraphy; use of microfossils in marine sediments to study oceanographic history. Three lectures and two laboratory hours per week.
Cross-listed course: MSCI 515

GEOL 516 - Sedimentology (4 Credits)
Modern concepts of sediment composition, sedimentary facies, depositional environments, and stratigraphy. Includes laboratory.
Prerequisites: GEOL 325.

GEOL 518 - Surface to Subsurface Stratigraphy (3 Credits)
Surface to subsurface stratigraphic interpretation and techniques; litho- and biostratigraphy; geophysical log interpretation and subsurface presentation.

GEOL 520 - Isotope Geology and Geochronology (3 Credits)
Dating techniques for Pleistocene deposits, sediments, archaeological materials, igneous and metamorphic rocks.

GEOL 521 - Introduction to Geochemistry (3 Credits)
Investigation of low temperature chemical reactions controlling the geochemistry of the earth's surface. Emphasis on CO2, carbonates, oxidation-reduction, thermodynamics, isotopes, biogeochemistry.
Cross-listed course: MSCI 521

GEOL 524 - Environmental Radioisotope Geochemistry (3 Credits)
Introduction to radioactivity and the use of radionuclides to study environmental processes, including age-dating and biogeochemical cycling in aquatic systems. Two lectures per week.
Prerequisites: CHEM 111, CHEM 112, MATH 141.

GEOL 525 - Igneous Petrology (4 Credits)
Petrography and petrogenesis of igneous rocks; evolution of contrasting petrologic terranes. Three lectures and three laboratory hours per week.
Prerequisites: GEOL 202.

GEOL 527 - Metamorphic Petrology (4 Credits)
Petrography and petrogenesis of metamorphic rocks in orogenic belts. Three lectures and three laboratory hours per week.
Prerequisites: GEOL 202.

GEOL 531 - Plate Tectonics (3 Credits)
Geological and geophysical evidence for plate tectonics, detailed development of the plate tectonics model, and present areas of research, including measurements of plate motion using satellite geodesy.
Prerequisites: Must have passed two GEOL courses numbered 300 or above, or consent of instructor.

GEOL 537 - Field Methods in Geophysics (3 Credits)
Application of two or more geophysical field methods to a current geological problem. Independent study contract required.

GEOL 540 - Earth Science for Teachers I (3 Credits)
Survey of topics related to the origin, internal structure, and internal processes of the earth, including plate tectonics, earthquakes, volcanoes, and mountain building. Required field trips, two lectures, and three lab hours per week. Cannot be used in M.S. or PhD programs in geology.
Cross-listed course: EDSE 548

GEOL 541 - Earth Science for Teachers II (3 Credits)
Surface processes acting on the earth; introduction to weather and climate, weathering, erosion, and sedimentary processes; landform evolution; ocean currents and tides, near-shore geologic processes. Required field trips, two lecture and three lab hours per week. Cannot be used in MS or PhD programs in geology.
Prerequisites: EDSE 548/GEOL 540.
Cross-listed course: EDSE 549

GEOL 542 - Methods in Geoscience Education Research (3 Credits)
Introduction to methods used in discipline-based education research and their application to research questions in the geosciences.
Prerequisites: C or better in least one course in GEOL, ENVR, MSCI or GEOG.

GEOL 545 - Geological Oceanography (3 Credits)
A comprehensive study of the origin and development of the major structural features of the ocean basins and the continental margins. Discussion of the techniques used in obtaining geologic data and the interpretation of sedimentary processes, vulcanism, and the stratigraphy of the ocean basins.
Cross-listed course: MSCI 545

GEOL 546 - Marine Geophysics (3 Credits)
Introduction to the nature and structure of the ocean floor as revealed by geophysical techniques. Two hours lecture and three hours laboratory.

GEOL 548 - Environmental Geophysics (4 Credits)
Practical geophysical techniques for exploring the shallow subsurface. Seismic, resistivity, well log, gravity, magnetic method. Includes lectures and field exercises to collect and analyze data.
Prerequisites: MATH 141 and PHYS 201 or PHYS 211.

GEOL 550 - Sedimentary Simulations and Sequence Stratigraphy (4 Credits)
Problems of sequence stratigraphy resolved with graphic computer simulations. Sedimentary fill of basins by carbonates and/or clastics tracked as a function of rate of sediment accumulation, tectonic behavior, and sea level. Includes laboratory.
Prerequisites: GEOL 325.
Cross-listed course: MSCI 550

GEOL 553 - Marine Sediments (3 Credits)
Marine sedimentary environments; physical/biological factors which control the formation and distribution of modern marine sediments.
Prerequisites: GEOL 516.
Cross-listed course: MSCI 553

GEOL 554 - Applied Seismology (3 Credits)
Theory of seismic wave propagation. Seismic reflection data acquisition, processing, and interpretation.
Prerequisites: MATH 141; PHYS 201 or PHYS 211.

GEOL 555 - Elementary Seismology (3 Credits)
Basic elements of seismology. Mathematical development of seismic wave equations; measurement, description, and interpretation of seismic data.
Prerequisites: MATH 241.
GEOL 556 - Seismic Reflection Interpretation (3 Credits)
The interpretation of geologic structure using seismic sections. Recognition of apparent structure caused by velocity anomalies, multiples, and complex reflector geometry. Application to hydrocarbon exploration.

GEOL 557 - Coastal Processes (3 Credits)
Physical and geological processes controlling the formation and evolution of beach, barrier, and nearshore environments, including discussion of coastal management issues.
Cross-listed course: MSCI 557

GEOL 560 - Earth Resource Management (3 Credits)
An approach to problems of resource management by lecture and seminar using case studies in mineral, energy, hydrogeological, and environmental science.
Graduation with Leadership Distinction: GLD: Research Experiential Learning: Experiential Learning Opportunity

GEOL 561 - Environmental Field Geology (6 Credits)
An introduction to field methods in sedimentology, structural geology, hydrogeology and geophysics with special reference to geological hazards and environmental problems.

GEOL 567 - Long-Term Environmental Change (3 Credits)
Climatic changes of the past and their impact on the physical landscape, with an emphasis on the Quaternary period.
Prerequisites: A 200-level course in physical geography or geology or equivalent.
Cross-listed course: GEOG 567

GEOL 568 - Introduction to Micrometeorology (3 Credits)
Small-scale processes in the atmospheric boundary layer, including energy budget, radiation, soil heat transfer, humidity, viscous flows, turbulence, momentum and heat exchanges, evaporation, and marine atmospheric boundary layer.
Prerequisites: PHYS 201 and MATH 141.
Cross-listed course: MSCI 568

GEOL 570 - Environmental Hydrogeology (3 Credits)
Environmental considerations of the hydrologic cycle, occurrence and movement of ground water, aquifer analysis, and water well emplacement and construction. Water quality, pollution parameters, and the geochemistry of selected natural systems. The effects of environmental problems, waste disposal, and urban development upon the aqueous geochemical regime.
Prerequisites: GEOL 101 and CHEM 111 or their equivalents.

GEOL 571 - Soil Hydrology (4 Credits)
Saturated and unsaturated water flow through soils, pore pressure development, runoff generation, and watershed response to rainfall. Three lecture and three laboratory hours per week.
Prerequisites: PHYS 202 and MATH 142.

GEOL 575 - Numerical Modeling for Earth Science Applications (3 Credits)
Finite difference and finite element methods for solving the diffusion equation and advection-dispersion equation, with applications in hydrogeology, geophysics, geology, and marine science.
Prerequisites: MATH 142; MATH 241 is recommended.

GEOL 579 - Air-Sea Interaction (3 Credits)
The physical mechanism responsible for interaction between the ocean and the atmosphere and the influence of air-sea interaction on atmospheric and oceanic dynamics and thermodynamics on a wide variety of spatial/temporal scales.
Cross-listed course: MSCI 579

GEOL 580 - Satellite Oceanography (3 Credits)
This course provides knowledge of various techniques used in satellite remote sensing of the oceans. Key skills will be developed in satellite data processing, image analysis, and hands-on research.
Cross-listed course: MSCI 580

GEOL 581 - Estuarine Oceanography (3 Credits)
Estuarine kinematics and dynamics; classification of estuaries; estuarine circulation and mixing. Scheduled field trips are required.
Prerequisites: differential equations, PHYS 201 or PHYS 211.
Cross-listed course: MSCI 581

GEOL 582 - Marine Hydrodynamics (3 Credits)
Basic principles of fluid statics and dynamics. Conservation of mass, momentum, and energy; viscosity, vorticity, and boundary layers with examples from the marine environment. Applications to and analysis of ocean currents and waves. Scheduled field trips are required.
Prerequisites: differential equations, PHYS 201 or PHYS 211.
Cross-listed course: MSCI 582

GEOL 583 - Geology and Geochemistry of Salt Marshes (3 Credits)
Geological and geochemical processes in salt marshes. Methods of geological research in marshes, including instrumental techniques, sampling design, and data analysis. Two lectures per week plus four weekends of project-oriented fieldwork and/or equivalent lab work. Scheduled field trips are required.
Cross-listed course: MSCI 583

GEOL 600 - Senior Seminar in Geology and Geophysics (2 Credits)
Advanced research topics in geology and geophysics; critical reading of literature, technical presentations, and written reports. Senior standing.

GEOL 650 - Electron Microscopy and Microanalysis (4 Credits)
SEM, ESEM, TEM, and EMPA, WDS quantitative analysis, EDS semiquantitative analysis, EBSD, methods of sample preparation, and applications in various disciplines. Two lecture and three laboratory hours per week.
Prerequisites: CHEM 111 or equivalent.

GEOL 699 - Senior Thesis (3-6 Credits)
Senior capstone experience, research on a problem on fundamental significance, supervised by faculty member; must include field study component, written final project report, and oral presentation at departmental seminar.

German (GERM)

GERM 109 - Beginning German I (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Restricted to those who have never studied German or who have placed by examination into GERM 109. Credit may be received only for one of the following GERM 109, GERM110; GERM 111; GERM 121. Carolina Core: GFL
GERM 110 - Beginning German II (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Credit may be received only for one of the following: GERM 109; GERM 110; GERM 111; GERM 121.
Carolina Core: GFL

GERM 111 - Intensive Beginning German (6 Credits)
Intensive introduction to grammar and practical vocabulary necessary for fundamental communication skills. Admission only to highly motivated beginning students who obtain permission of the department. Credit may be received only for one of the following: GERM 109 and GERM 110; GERM 111; GERM 121.

GERM 121 - Elementary German (4 Credits)
Grammar and vocabulary necessary for fundamental communication skills. Assumes prior experience in German. Admission only by proficiency examination. Credit may be received for only one of the following: GERM 109; GERM 110; GERM 111; GERM 121.
Carolina Core: GFL

GERM 122 - Basic Proficiency in German (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: Admission either by placement examination or successful completion of GERM 110, GERM 111, or GERM 121.
Carolina Core: GFL

GERM 210 - Intermediate German (3 Credits)
Further development of listening, reading, speaking, and writing skills; discussion of selected literary texts, and current issues; intensive review of basic grammar structures.
Prerequisites: GERM 122, or satisfactory score on Basic Proficiency Phase II placement test.

GERM 211 - Intermediate German (3 Credits)
Reading strategies, a review, and expansion of grammar structures, supplemented with materials concerning current issues.
Prerequisites: GERM 122, or satisfactory score on Basic Proficiency Phase II placement test.
Prerequisite or Corequisite: GERM 210.

GERM 230 - The Idea of Nature in Germany (3 Credits)
The idea of nature in Germany from the 18th century to today. Focus on scientific, philosophical, social and political entanglements that prompt radical shifts in how German thinkers view nature.

GERM 270 - Knights and Ladies (3 Credits)
Survey of medieval romances and love lyrics of Germany. History and culture of the High Middle Ages in Germany, especially courtly society. The function of chivalry and courtly literature in society.

GERM 280 - German Culture and Civilization (3 Credits)
Survey of German cultural history from the Middle Ages to the present. Taught in English.
Carolina Core: GHS
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

GERM 290 - Viking Mythology (3 Credits)
Survey of Germanic mythical and heroic texts of the Viking Age. History and culture of Germanic tribes, especially the Vikings. The function of myth in society.
Carolina Core: AIU

GERM 295 - Green Technology in Germany (3 Credits)
Examination of roots and culture of environmentalism and related technological innovation in Germany. Comparison of green practices around the world to practices within Europe and U.S.
Cross-listed course: ENVR 295
Graduation with Leadership Distinction: GLD: Community Service

GERM 310 - German Conversation (3 Credits)
Continued practice in the four skills with focus on a selected aspect of German culture and society.
Prerequisites: GERM 210 and GERM 211.

GERM 311 - German Conversation and Composition (3 Credits)
Continued practice in the four skills with emphasis on developing writing skills and with focus on a specific aspect of German culture.
Prerequisites: GERM 210 and GERM 211.

GERM 316 - Advanced German for Business and Other Professions I (3 Credits)
Development of advanced language and cultural skills necessary for functioning in the professional world of German-speaking countries.
Prerequisites: C or higher in GERM 210 and GERM 211.

GERM 320 - German Kabaret Production (3 Credits)
Literary-historical analysis and discussion of texts from German Kabaret, including comedic skits, political and social satire, parody, humorous poetry. Semester ends with a public performance in German.
Prerequisites: GERM 310.

GERM 333 - Study of German Abroad (3-6 Credits)
Intensive language practice and cultural studies. May be repeated for credit by permission.

GERM 340 - Readings in German Literature (3 Credits)
An introduction to the literary genres illustrated by masterpieces in German poetry, drama, and prose.
Prerequisites: GERM 310 and GERM 311.

GERM 398 - Selected Topics (3 Credits)
Taught in English. Intensive study of cultural and/or literary movements in German-speaking countries. Course content varies by title.

GERM 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

GERM 401P - Practicum in Teaching German to Young Children (3 Credits)
Introduction to principles of foreign language instruction and field experience planning instruction and teaching German to children in local elementary schools.
Corequisite: GERM 210 or higher.
Graduation with Leadership Distinction: GLD: Community Service Experiential Learning: Experiential Learning Opportunity

GERM 410 - Advanced German Grammar (3 Credits)
Emphasis on advanced grammar structures, with continued development of all four skills (reading, writing, listening, speaking).
Prerequisites: GERM 310 and GERM 311.

GERM 411 - Advanced German Conversation (3 Credits)
Advanced practice in correct spoken idiomatic German with special focus on issues of the 20th century and contemporary culture.
Prerequisites: GERM 310 and GERM 311.
GERM 416 - Advanced German for Business and Other Professions II (3 Credits)
Development of advanced language and cultural skills necessary for functioning in the professional world of German-speaking countries. Preparation for standardized exams.
Prerequisites: C or higher in GERM 310 and GERM 311.

GERM 420 - Medieval German Literature and Culture (3 Credits)
Survey of German literature and culture from the beginnings to 1350, including Germanic mythology and heroic poetry, conversion to Christianity, courtly romance, and love lyric, mystical writings, art and architecture.
Prerequisites: GERM 340.

GERM 430 - The German Enlightenment and its Countercurrents (3 Credits)
German literature and culture of the 18th century with emphasis on the period between 1750 and Weimar Classicism. May include major works by Lessing, Goethe, and Schiller.
Prerequisites: GERM 340.

GERM 440 - German Literature and Culture from 1800-1871 (3 Credits)
German literary, cultural, and intellectual developments from Unification to the end of WWII, including Naturalism, Expressionism, the Weimar Republic, the Third Reich, and the exile period.
Prerequisites: GERM 340.

GERM 450 - German Literature from 1890-1945 (3 Credits)
German literary, cultural, and intellectual developments from 1890 to 1945, including Expressionism, Weimar Republic, the Third Reich, and exile period.
Prerequisites: GERM 340.

GERM 460 - Post-War and Contemporary German Literature (3 Credits)
German literary, cultural, and political developments from Post-War destruction and reconstruction, through the Cold War period of division, with examination of the reunification process.
Prerequisites: GERM 340.

GERM 500 - Survey of German Culture (3 Credits)
Historical survey of the German contribution to the intellectual and cultural life of Europe. Texts and films in German.
Prerequisites: advanced reading ability in German.

GERM 515 - Introduction to German Linguistics (3 Credits)
Structural and descriptive linguistics applied to the German language.
Cross-listed course: LING 503

GERM 516 - History of the German Language (3 Credits)
Development of German in the Germanic, Old High German, Middle High German, and New High German periods. Phonology, morphology, syntax, semantics, and the relationship between dialects and the standard language.
Cross-listed course: LING 733

GERM 517 - Introduction to the Germanic Languages (3 Credits)
Introduction to historical Germanic linguistics including a survey of the Old Germanic languages (Old English, Old Frisian, Old Saxon, Old High German, Old Norse, Gothic); comparative phonology, morphology, and syntax, typology of modern Germanic languages and dialects; and common Germanic in its Indo-European context.
Cross-listed course: LING 533

GERM 518 - German Sociolinguistics (3 Credits)
Introduction to the study of variation in Modern German. Traditional German dialectology and dialect geography, language and society, multilingualism in the German-speaking countries, German in contact with other languages.
Cross-listed course: LING 548

GERM 580 - Topics in German Film (3 Credits)
Examination of recurring themes and issues or of significant periods and influential styles in German film. Course content varies and individual topics will be announced with course title.

GERM 598 - Selected Topics in German (3 Credits)

GERM 615 - Intensive Readings in German (3 Credits)
Intensive reading for non-majors. Graduate students fulfill their foreign-language requirement with successful completion of the course.
Undergraduates may take the course as an elective only by permission of instructor. Grades S/U for graduates and undergraduates.

Global Studies (GLST)

GLST 220 - Introduction to Global Studies Through Literature (3 Credits)
Given that literature represents real policies and practices in the contemporary world and our ethical responsibility as global citizens, the course will focus on literature from different periods, nations, and regions across the world in order to better understand the way human experiences and different cultures relate. All literature will be read and taught in English.

GLST 300 - Introduction to International Development (3 Credits)
Critical, historical, and theoretical introduction to modern development practice. Includes extended discussions of contemporary best practices in the field.

GLST 308 - Global Media Industries (3 Credits)
Provides the foundation for the study of globalized film and media industries.
Cross-listed course: FAMS 308

GLST 369 - History of Capitalism 1: Ancient and Medieval World (3 Credits)
History of “capitalist” economic behavior and culture in various premodern societies: the Ancient Middle East, Classical Greece, the Roman Empire, early Islamic society, medieval Christian and Islamic states, the Mongol period and the era of global expansionism; evaluation of competing theories about premodern economic life and the meaning of “capitalism”

GLST 370 - History of Capitalism From the Industrial Revolution to the Global Economy (3 Credits)
A history of capitalism and its evolving definitions in Europe from the Middle Ages to the 20th Century, including its role in agriculture, mechanical industry, international trade, and colonialism and domination.

GLST 391 - Topics in Global Studies (3 Credits)
Selected topics in Global Studies. May be repeated with a change in topic. May be taken three times for credit.
Greek (GREK)

**GREK 121 - Elementary Ancient Greek I (4 Credits)**
Basic grammar and vocabulary necessary for reading Classical and Koine Greek. Assumes no prior experience in the language.

*Carolina Core: GFL*

**GREK 122 - Elementary Ancient Greek II (4 Credits)**
Additional grammar and vocabulary necessary for reading Classical and Koine Greek.

*Prerequisites: GREK 121.*

*Carnolina Core: GFL*

**GREK 305 - The Greek New Testament (3 Credits)**
Readings in the Gospels and Epistles.

*Prerequisites: GREK 121 and GREK 122.*

**GREK 321 - Plato (3 Credits)**
The life of Socrates based on the reading of Plato's Apology and Crito in Greek. Supplementary reading in English from Xenophon's Memorabilia and Aristophanes' Clouds.

*Prerequisites: GREK 121 and GREK 122.*

**GREK 322 - Homer (3 Credits)**
Readings from the Iliad and the Odyssey in Greek. Discussion of the language, background, and composition of the poems.

*Prerequisites: GREK 121 and GREK 122.*

**GREK 399 - Independent Study (3-6 Credits)**
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

*Graduation with Leadership Distinction: GLD: Research*

**GREK 501 - Herodotus (3 Credits)**
Readings from the Histories.

**GREK 502 - Thucydides (3 Credits)**
Readings from the History of the Peloponnesian War.

**GREK 533 - Sophocles (3 Credits)**
Selected plays.

**GREK 534 - Euripides (3 Credits)**
Selected plays.

**GREK 543 - Hesiod and the Homeric Hymns (3 Credits)**
Readings from the Works and Days, the Theogony, and the Homeric Hymns.

**GREK 550 - Greek Seminar (3 Credits)**
Authors and topics not covered in other Greek language courses, chosen to meet the needs of individual students. May be repeated with the approval of the department.

**GREK 560 - Independent Study (1-3 Credits)**
Special projects for independent study and research.

**GREK 561 - Independent Study (1-3 Credits)**
Special projects for independent study and research.

**GREK 614 - Intensive Grammar Review of Ancient Attic Greek (3 Credits)**
Intensive review for nonmajors designed to prepare them for GREK 615.

**GREK 615 - Intensive Readings in Ancient Attic Greek (3 Credits)**
Intensive reading for nonmajors. A review of grammar and syntax with reading of passages from Plato's Apology. Primarily for graduate students to fulfill the foreign-language reading requirement.

*Prerequisites: GREK 614.*

Hebrew (HEBR)

**HEBR 121 - Elementary Hebrew (4 Credits)**
Grammar and practical vocabulary for fundamental communication skills. Assumes no prior experience in the language.

**HEBR 122 - Basic Proficiency in Hebrew (4 Credits)**
Practice and further development of essential listening, reading, speaking, and writing skills. Offered only in spring.

*Prerequisites: HEBR 121.*

**HEBR 201 - Intermediate Hebrew (3 Credits)**
Review of the basic principles of grammar, with emphasis on reading, oral skills, and writing.

**HEBR 202 - Intermediate Hebrew (3 Credits)**
Review of the basic principles of grammar, with emphasis on reading, oral skills, and writing.

**HEBR 310 - Conversation and Composition (3 Credits)**
Practical training in the spoken and written language.

*Prerequisites: HEBR 202 or equivalent.*

**HEBR 398 - Selected Topics (3 Credits)**
Intensive study in selected and cultural topics related to Judaism. May be repeated for credit under different titles. Taught in English.

**HEBR 399 - Independent Study (3-6 Credits)**
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

*Graduation with Leadership Distinction: GLD: Research*

Higher Education (EDHE)

**EDHE 600 - Special Problems in Higher Education and Student Affairs (1-3 Credits)**
The course is designed to provide opportunities for the study of special topics in higher education and student affairs administration.

History (HIST)

**HIST 101 - European Civilization from Ancient Times to the Mid-17th Century (3 Credits)**
The rise and development of European civilization from its Mediterranean origins through the Renaissance and Reformation.

*Carolina Core: GHS*

**HIST 102 - European Civilization from the Mid-17th Century to the Present (3 Credits)**
European development and expansion from the mid-17th century to the present.

*Carolina Core: GHS*

*Graduation with Leadership Distinction: GLD: Global Learning*
HIST 103 - Introduction to South Asian History (3 Credits)
Political, cultural, and economic forces that have conditioned the development of institutions and ideas in South Asia.
Carolina Core: GHS

HIST 104 - Introduction to the Civilization of the Islamic Middle East (3 Credits)
An analysis which treats the major cultural elements of traditional Islamic civilization and then concentrates upon the reactions of the Arabs, Turks, and Iranians to the problems of adjusting to the modern world.
Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 105 - Introduction to East Asian Civilization (3 Credits)
The evolution of social, political, and cultural patterns in East Asia, with emphasis on the development of philosophical, religious, and political institutions and their relationship to literary and artistic forms in China and Japan.
Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 106 - Introduction to African History (3 Credits)
An examination of several traditional sub-Saharan African societies and of their political and economic transformation in the modern, colonial, and post-independence periods.
Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 107 - Introduction to Ancient Near Eastern Civilization (3 Credits)
The political, social, religious, economic, military, and intellectual development of Ancient Egypt, Mesopotamia, and adjoining areas from the origins of civilization until the seventh century A.D.

HIST 108 - Science and Technology in World History (3 Credits)
The development of science and technology and their roles in world civilizations from antiquity to the present.
Carolina Core: GHS, VSR

HIST 109 - Introduction to Latin American Civilization (3 Credits)
A discussion of the political, cultural, and economic forces which have conditioned the development of institutions and ideas in Spanish and Portuguese America.
Carolina Core: GHS

Graduation with Leadership Distinction: GLD: Global Learning

HIST 110 - Conquest, Colonization, and Captivity: A Cultural History of the Americas from 1441 to 1888 (3 Credits)
Comparative examination of conquest, colonization, and human captivity in the history, cultural values, and social ethics of European, African, and Indigenous civilizations in the Americas, 1441-1888.
Carolina Core: GHS, VSR

HIST 111 - United States History to 1865 (3 Credits)
A general survey of the United States from the era of discovery to 1865, emphasizing major political, economic, social, and intellectual developments.
Carolina Core: GHS

HIST 112 - United States History since 1865 (3 Credits)
A general survey of the United States from 1865 to the present, emphasizing major political, economic, social, and intellectual developments. Honors sections are available for students in the honors program.
Carolina Core: GHS

HIST 201 - American Founding Documents (3 Credits)
Introduction to Declaration of independence, Constitution, Federalist Papers, Bill of Rights, landmark Supreme Court cases and constitutional amendments; exploration of these texts’ historical context and debates about their meaning.

HIST 211 - Black Experience in the United States to 1865 (3 Credits)
The social, cultural, economic, and political life of black people in the United States to 1865.
Cross-listed course: AFAM 331

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

HIST 212 - Black Experience in the United States since 1865 (3 Credits)
The social, cultural, economic, and political life of black people in the United States since 1865.
Cross-listed course: AFAM 332

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

HIST 213 - History of the American West (3 Credits)
The history and development of an American region, “the West,” through the narratives of its diverse people and the effects of its complex geography.

HIST 214 - The Practice of Public History (3 Credits)
Introduction to the field of public history. Explores the challenges of portraying history in museums, parks, and other public history venues.
Carolina Core: GHS

HIST 215 - History of the Devil (3 Credits)
A survey of the beliefs and practices associated with the demonic and the Devil from c 500 B.C.E. to the 20th century.
Cross-listed course: RELG 206

HIST 300 - Introduction to the History Major: The Historian's Craft (3 Credits)
The nature of historical evidence, the formulation of historical questions, the process of historical research, and the construction of historical arguments using primary sources and secondary materials.
Graduation with Leadership Distinction: GLD: Research

HIST 301 - The Ancient Near East to 323 B.C. (3 Credits)
The formation of ancient Near Eastern cultures, the ultimate synthesis of these cultures and the resulting establishment of the Near East as an historical entity.

HIST 302 - Greek History and Civilization to 146 B.C. (3 Credits)
The origins and development of Greek civilization in its political, economic, social, and cultural aspects with special attention being given to the early and late classical periods and the Hellenistic Age.

HIST 303 - Roman Republic and Early Empire (3 Credits)
The origins of Rome and shaping of its republican government, the spread of Roman rule in Italy and across the Mediterranean, the establishment of the principate and formation of one diverse imperial society and culture.

HIST 304 - Late Antiquity: Imperial Rome to Islam (3 Credits)
Political, social and religious transformation of the Mediterranean world, 2nd to the 8th century, including the rise of Christianity, the decline of Roman power, and the rise of Islam.
HIST 305 - Greece and Rome in Film and Popular Culture (3 Credits)
Representations of antiquity in cinema, television, and other contemporary media, with emphasis on Hollywood’s reception of Greek and Roman history.
Cross-listed course: CLAS 305

HIST 306 - Medieval Europe, ca. 300-1492 (3 Credits)
Topics include the formation of monarchies, the rise of Christianity, learning and universities, knighthood and social orders, and heresy and crusades.

HIST 307 - Family and Society in Europe, c. 1200-1700 (3 Credits)
Explores the concerns and importance of families in pre-modern Europe. Topics include household furnishings and management, social classes, gender roles, family law, marriages, business, children, feuds, and sexuality.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 308 - Magic and Witchcraft in Europe, c. 1200-1700 (3 Credits)
Practices of, reactions against, and ideas surrounding magic and witchcraft during the late Middle Ages and the time of Europe’s “Great Witch Craze”.

HIST 309 - Age of Renaissance (3 Credits)
Social, cultural, and artistic movements in Italy and northern Europe from the Black Death (c. 1350) to religious reforms and revolutions (c. 1520).

HIST 310 - Age of the Reformation (3 Credits)
Religious, social, and political reforms from the rise of local religious protests (c. 1450) to the crisis of the 17th century. The rise of Protestantism and reactions in Catholicism.
Graduation with Leadership Distinction: GLD: Research

HIST 311 - The Age of Absolutism, 1648-1789 (3 Credits)
A survey of European political, economic, and intellectual development from the age of Louis XIV to the eve of the French Revolution.

HIST 312 - French Revolution and Napoleon (3 Credits)
The changes in France and Europe during the revolutionary decade, the rise of Napoleon, and the establishment of French hegemony over the Continent.

HIST 313 - The Enlightenment (3 Credits)
Intellectual and cultural history of the Enlightenment with particular attention to its relationship with the colonial world and its challenges to eighteenth-century states. Readings focused on primary sources.

HIST 314 - Video Games and History (3 Credits)
History in video games; comparison of selected games with historical scholarship, to assess the validity of the games’ presentations of historical developments and the value of games to the understanding of history.

HIST 316 - Nineteenth-Century Europe (3 Credits)
Political, social, economic, and intellectual developments from 1815-1900, which brought European culture to its zenith and contributed to Europe’s global domination.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 317 - Contemporary Europe from World War I to World War II (3 Credits)
The Great War, revolution, and reconstruction; the rise of authoritarian and totalitarian regimes and the coming of World War II.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 318 - Europe from World War II to the Present (3 Credits)
The Second World War and its origins; the Cold War; European recovery; a divided continent and Europe in the Global Era.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 320 - The History of Great Britain (3 Credits)
A survey of the political, social, economic, and cultural development of the British Isles from Anglo-Saxon times to the present. First semester: to the Restoration of 1660; second semester: since 1660.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 321 - The History of Great Britain (3 Credits)
A survey of the political, social, economic, and cultural development of the British Isles from Anglo-Saxon times to the present. First semester: to the Restoration of 1660; second semester: since 1660.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 323 - The British Empire (3 Credits)
Examination of the British Empire, tracing various historical themes as regions of world fell under British control, with particular attention to Ireland, India, and sub-Saharan Africa (especially South Africa) in the 17th Century-20th Century.

HIST 324 - Slavery and Freedom in the Ancient and Medieval World (3 Credits)
Exploration of varied forms of servitude in the ancient and medieval Mediterranean; examination of human bondage in the Hebrew Bible, ancient Greece, Roman society, late antique religious teachings, and medieval Christian and Islamic societies; study of ancient slavery in modern political debates, historians’ writings, and television and film.

HIST 325 - Byzantine History: 4th to 11th Centuries (3 Credits)
The political, religious, and military developments within the Eastern Empire including its influence on Western and Slavonic Europe and Islam.

HIST 326 - Byzantine History: 11th to 15th Centuries (3 Credits)
The political and military developments within the Eastern Empire from the invasion of the Seljuk Turks to its final destruction by the Ottoman Turks.

HIST 327 - The Crusades (3 Credits)
Holy war and realpolitik in Mediterranean East-West relations from the 10th through the 15th centuries with emphasis on the role of the crusades in the cultural formation, development, and international relations of East and West.

HIST 328 - Nineteenth-Century Britain (3 Credits)
The political, economic, and social developments in Great Britain and Ireland during the Victorian Age.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 329 - Modern and Contemporary Britain (3 Credits)
The political, economic, and social developments in Great Britain and Ireland during the 20th century.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 331 - France Since 1815 (3 Credits)
A political and social history from the Bourbon Restoration to the present.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 334 - The History of Russia from the Earliest Times to the Mid-19th Century (3 Credits)
The earliest life on the steppe, the Kievan State, the foundations of Moscow, and the Russian empire to the reign of Nicholas I.

HIST 335 - The History of Modern Russia and the Soviet Union (3 Credits)
The decline of Imperial Russia, the Revolution of 1917, Lenin, Stalin, and the Soviet Union since Stalin.

HIST 336 - Russian and Soviet Diplomatic History (3 Credits)
Imperial and Soviet foreign and military policies in the 19th and 20th centuries.
HIST 338 - Modern Germany (3 Credits)  
A survey of German history including political, cultural, social, and economic developments from unification in 1871 to the present.  
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 342 - The Slavs in History (3 Credits)  
An introductory survey of the civilization of the Slavic peoples. The historical traditions and culture of the peoples that occupy much of the Eurasian continent.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 343 - The Fall of the Eastern European Empires (3 Credits)  
Nineteenth-century eastern European states and peoples; the political and social forces leading to World War I.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 344 - Eastern Europe Since WWI (3 Credits)  
Survey of states in East-central and Southeastern Europe. Problems of national identity, modernization, and small state politics. Impact of WWII, the Cold War, the fall of communism, and the return to pluralism.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 347 - The Middle East in Modern Times (3 Credits)  
The impact of modern civilization upon the Middle East, including the history of the Arab, Turkish, Islamic, and Israeli segments of the Middle East during the 19th and 20th centuries.  
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 348 - North Africa from Colonialism to Revolution: 1830-1962 (3 Credits)  
A survey of French North Africa (Morocco, Algeria, and Tunisia) and Libya under colonial rule. The creation, development, and triumph of the nationalist movements, with particular attention to Algeria and its revolution.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 349 - The Contemporary Middle East and North Africa (3 Credits)  
Political, social, and economic history of the Middle East and North Africa in the years since World War II.  
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 350 - Saving Africa: Development and Humanitarianism in Historical Perspective (3 Credits)  
Exploration of how and why Africa is often represented as helpless, the colonial origins of common patterns of development and humanitarianism, and other possible models for these processes.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 351 - Africa to 1800 (3 Credits)  
Social, cultural, economic, and political developments, focusing on internally and externally generated changes.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 352 - Africa since 1800 (3 Credits)  
Commercial and religious revolutions of the 19th century, imposition and ending of formal colonial rule, and post-colonial issues.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 353 - Problems in the History of Africa South of the Sahara (3 Credits)  
Independent readings and written papers on appropriate topics.  
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 354 - Modern East Asia (3 Credits)  
Surveys modern development of East Asia from 1800 to the present.  
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 355 - Late Imperial China (3 Credits)  
Political, economic, social, and intellectual transformations of late imperial China from the Ming dynasty (1368-1644) through the last empire of China, the Qing dynasty (1644-1911).  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 356 - China Since 1949 (3 Credits)  
Introduction to the major social, economic, and political changes in China from the Communist Revolution in 1949 to the present.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 357 - Japan to 1800: Aristocrats and Warriors (3 Credits)  
The growth of the ancient state and the evolution of the samurai class and its political authority.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 358 - Japan since 1800 (3 Credits)  
The development of modern Japan: political evolution, industrial growth, social change, war, defeat, and occupation.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 360 - Into the Wild: Global Conservation since 1800 (3 Credits)  
Global and comparative environmental-historical investigation of the ecological, socioeconomic, and cultural significance of wilderness protection, nature conservation, national parks, and nature tourism; field excursions required.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 365 - East Africa and the Indian Ocean World (3 Credits)  
East Africans’ contributions to an Indian ocean World that transcends single nation-states (stretching from Mozambique and Somalia to the Middle East, India and China) from the deep past to the present, including sections on “piracy,” Islam, slavery, race, and gender.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 367 - Gandhi and the Nationalist Movement in India (3 Credits)  
Development of anticolonial thought and political movements in British India from the early nineteenth century onwards. Focuses on Mohandas K. Gandhi, his critics, and Gandhi’s continuing global legacy.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 369 - History of Capitalism 1: Ancient and Medieval Worlds (3 Credits)  
History of “capitalist” economic behavior and culture in various premodern societies: the Ancient Middle East, Classical Greece, the Roman Empire, early Islamic society, medieval Christian and Islamic states, the Mongol period and the era of global expansionism; evaluation of competing theories about premodern economic life and the meaning of “capitalism”  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 370 - History of Capitalism 2: From the Industrial Revolution to the Global Economy (3 Credits)  
A history of capitalism and its evolving definitions in Europe from the Middle Ages to the 20th Century, including its role in agriculture, mechanical industry, international trade, and colonialism and domination.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 371 - History of Airpower (3 Credits)  
The evolution of airpower from the early 20th Century through the early 21st Century. The emphasis is on the development of various theories about the application of aerial force, and how operations in time of war have confirmed or challenged these theories from a multinational perspective.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 372 - History of Modern Sea Power (3 Credits)  
The evolution of sea power through the development of steam navies around the globe, 1860 CE - 2020 CE.  
Graduation with Leadership Distinction: GLD: Global Learning

HIST 374 - Nationalism: Myth and Reality (3 Credits)  
A comparative examination of the origins and development of nationalism and its impact on the modern world.  
Graduation with Leadership Distinction: GLD: Global Learning
HIST 375 - Nazis and Fascists in European History, 1919-1945 (3 Credits)
German and Italian political movements; emphasis on the role of leadership, propaganda, and ideology. Fascist movements in France, Rumania, Hungary, and Great Britain.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 376 - War and European Society, 1914-1945 (3 Credits)
Thematic examination of the nature and impact of total war on European society; emphasis on socio-economic, cultural, and military aspects.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 377 - Business in Historical Perspective (3 Credits)
Capitalism in the Western world; the rise of modern corporate enterprise in Europe and America since 1850.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 378 - Urban Experience in Modern Europe (3 Credits)
Social and cultural impact of urbanization in Europe since 1789 through a comparison of major cities such as London, Paris, Vienna, and Berlin.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 379 - Women in Modern Europe (3 Credits)
Survey of women in European history from the eighteenth to the twenty-first century. Focus on women's citizenship beginning with Enlightenment ideas of rights through developments in modern feminism.
Cross-listed course: WGST 379
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 380 - History of the Holocaust (3 Credits)
Introduction to Nazi Germany's systematic mass-murder of Europe's Jews and other minorities during World War II. Examination of forces that led to the Holocaust, including scientific racism, Nazi policy implementation, and dynamics of annihilation during war.
Cross-listed course: JSTU 492

HIST 381 - The Nobel Peace Prize: Peace, War, and Politics (3 Credits)
Modern history through the lens of the Nobel Peace Prize. Limitations of the Nobel as encouragement to peace.

HIST 382 - History of Medicine: Antiquity to the Scientific Revolution (3 Credits)
A survey of the history of premodern medicine. How Western cultures of the past approached health and illness; anatomy; nutrition; sexuality; disease and plague; mental and emotional health; and more. From ancient Greece, through medieval and early modern Islamic, Jewish, and Christian approaches to medicine and the body.

HIST 383 - Jewish History I: Late Antiquity to 1500 (3 Credits)
The religious, cultural, social, and political conditions that shaped the Jewish experience in the Near East and Europe from late antiquity to 1500.
Cross-listed course: JSTU 381, RELG 381

HIST 384 - Jewish History II: 1500 to the Present (3 Credits)
Case studies of Jewish history in Europe, America, and the land of Israel, 1500 to the present.
Cross-listed course: JSTU 382, RELG 382

HIST 385 - The Expansion of Christianity (3 Credits)
Critical epochs in the spread of Christianity. Consideration of the great crises that shaped the structure and form of Christianity during the last 20 centuries: the Hellenistic world; the medieval syntheses; the breakup of Western Christian unity; the transition to worldwide mission activity in the industrial age.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 386 - Islamic Institutions and Traditions (3 Credits)
The religious, political, social and economic institutions and intellectual and scholarly traditions developed by Muslim societies throughout Afro-Eurasia from late antiquity to the present.
Cross-listed course: RELG 354
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 387 - Messiahs, Mystics and Rebels in the Islamic World (3 Credits)
Representative messianic movements, millenarian visionaries and apocalyptic imaginings in the Islamic world from the 7th century to the present, with attention to related developments in the Jewish and Christian traditions over the last two millennia.
Cross-listed course: RELG 368

HIST 388 - Kabbalah: Science, Religion and Nature in Western History (3 Credits)
Historical investigation of kabbalah, a philosophical system and mystical current common to Judaism, Islam and Christianity, from the medieval period to the present; focus on its formative role in early modern Western cosmology and science, and its ecological implications today.
Cross-listed course: JSTU 388, RELG 388

HIST 389 - Science, Magic and Religion (3 Credits)
Occultism as a link between science and religion and its central role in Western intellectual and cultural history; the historical development of the science-magic-religion continuum in the Islamo-Christian world from late antiquity to present.
Cross-listed course: RELG 362

HIST 390 - Engineering in History (3 Credits)
History of engineering practices, professions, and sciences, as well as development of engineered artifacts from the Middle Ages to the present.

HIST 391 - Information Technology: Past and Present (3 Credits)
The history of the computer; how it acquired various forms through the 20th century; how information, as defined by computers, had shaped the world over the past century.

HIST 392 - Making Modern Science: The Physical Sciences (3 Credits)
The history of physics, chemistry, geology, and related sciences since the Scientific Revolution.

HIST 393 - Making Modern Science: The Life Sciences (3 Credits)
The study of the life from antiquity to the present. Investigates the origins of modern biology and medicine and how life has shaped scientific, political, and economic thought.

HIST 394 - History of the Automobile (3 Credits)
Evolution of the automobile from a conceptual idea through the present-day. Emphasis on analysis of the automobile's impact on culture, economics, the environment, politics, science and technology, and society.

HIST 395 - Plagues and Societies in World History (3 Credits)
A survey of biopolitical, social, economic, and cultural aspects of epidemic diseases throughout world history.

HIST 396 - Evolution of Warfare I (3 Credits)
A history of tactics, strategy, weapons, and logistics from 500 B.C. to A.D. 1400.

HIST 397 - Evolution of Warfare II (3 Credits)
A history of tactics, strategy, weapons, and logistics from A.D. 1400 to the present.
HIST 398 - Sustainability in World History from Early Times to the Anthropocene (3 Credits)
An interdisciplinary examination of sustainability around the world from social, environmental, technological, and economic perspectives from early times to the present.

HIST 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

HIST 400 - Urban America in the Modern Age, 19th Century-present (3 Credits)
Survey of the urban history of the United States from the 19th Century through today.

HIST 401 - The Development of the American People to 1789 (3 Credits)
The founding of the English colonies, their developing maturity, the events leading to the Revolution, and the creation of a new nation.

HIST 402 - The New Nation, 1789-1828 (3 Credits)
The new republic and the developing democratic spirit in politics and culture.

HIST 403 - The Sections and the Nation, 1828-1860 (3 Credits)
The three cultures of East, South, and West; their interactions and the events leading to the Civil War.

HIST 404 - Civil War and Reconstruction, 1860-1877 (3 Credits)
The political, military, and social history of the War and the reorganization which followed.

HIST 405 - The Rise of Industrial America, 1877-1917 (3 Credits)
A survey of recent United States history with emphasis on the economic, social, and literary developments from 1877 to 1917.

HIST 406 - The United States and a World at War, 1917-1945 (3 Credits)
The United States and a World at War, 1917-1945.

HIST 407 - United States History Since 1945 (3 Credits)
A survey of the political, economic, social, and cultural developments in the period after World War II.

HIST 409 - The History of South Carolina, 1670-1865 (3 Credits)
A study of South Carolina origins and developments.

HIST 410 - History of South Carolina Since 1865 (3 Credits)
A survey of recent South Carolina history with emphasis on social and institutional development.

HIST 413 - History of Canada (3 Credits)
A survey of Canadian development from colony to modern nation.

HIST 415 - Voices of America: U.S. History Through Biography (3 Credits)
Historical exploration of the daily lives and personal stories of Americans through biographies and ethnographies.

HIST 416 - Histories of Native America (3 Credits)
Experiences of Native people in North America from the period before European colonization through the 21st Century.

HIST 420 - Colonial Latin America (3 Credits)
The establishment and consolidation of the Spanish and Portuguese empires in the Western hemisphere; interaction of Indians, Africans, and Iberians, and the formation of social, economic, and political traditions in Latin America; political independence.

Cross-listed course: LASP 341

HIST 421 - Modern Latin America (3 Credits)
Traditional society in the area and problems arising from social, economic, and political changes since independence; comparative studies of national responses to these problems.

Cross-listed course: LASP 342

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

HIST 422 - Social and Economic History of Latin America (3 Credits)
The evolution of social groups and changes in economic patterns in Latin America from pre-Columbian times to the present.

Cross-listed course: LASP 441

HIST 423 - History of Mexico (3 Credits)
Mexico from the pre-conquest period to the present, with an emphasis on modern Mexico.

Cross-listed course: LASP 442

HIST 425 - Caribbean Race and Slavery, 1500-1900 (3 Credits)
The roles race and slavery played in shaping Colonial Caribbean History from the pre-Columbian Civilizations to the end of the 19th century.

HIST 434 - Everyday Life in Colonial America (3 Credits)
The customs, mores, attitudes, and living conditions of men and women of the 17th and 18th centuries. Emphasis on the common people of the American colonies.

HIST 435 - The American Revolution (3 Credits)
The causes of the Revolution; the events of the period and their implications.

HIST 442 - The Old South (3 Credits)
Development of Southern society and of the forces that made the South a distinctive section of the United States.

HIST 443 - The New South (3 Credits)
Reconstruction, the Bourbon era, agrarian revolt, industrial revolution, racial problems, and the changes resulting from the impact of two world wars and the New Deal (1865-1946).

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HIST 444 - The Civil War in American History (3 Credits)
The causes, events, and results of the Civil War.

HIST 445 - The Reconstruction of the Nation (3 Credits)
The events and results of the attempt to reorder the American nation after the Civil War.

HIST 446 - Immigration and Ethnicity in America (3 Credits)
Issues of immigration, assimilation and nativism in the United States, 1840 to 1930.

HIST 447 - American Empire: Policy, Society, and Culture (3 Credits)
HIST 447 examines the full sweep of American history through the lens of empire, covering especially the linkages between U.S. foreign policy and American domestic culture.

HIST 448 - American Environmental History (3 Credits)
Interaction of cultural values, economic interests, public policy, and technology with the physical environment over time.

HIST 449 - American Popular Culture Since 1890 (3 Credits)
A history of the contributions of the popular aspects of American culture and their interactions with American institutions.

HIST 451 - The History of American Medicine (3 Credits)
The development of the art and science of medicine as practiced in the United States from colonial times to Medicare. Emphasis on the social history of American medicine.
HIST 452 - The History of Science in America (3 Credits)
The development of science in America from colonial times to the present. Special attention will be given to defining those factors, scientific, economic, and social, which have raised American science to its commanding position in the 20th century.

HIST 453 - Technology and American Society (3 Credits)
The historical development of technologies and technological systems in the American context.

HIST 455 - The American Civil Rights Movement (3 Credits)
Examination of the origins of Jim Crow and the multi-faceted struggle against it, and other forms of racial inequality, in the American South and the rest of the US since the early 20th century.

Cross-listed course: AFAM 335
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

HIST 460 - American Thought to 1865 (3 Credits)
The transfer and adaptation of European ideas to a new environment and the development of new patterns.

HIST 461 - American Thought since 1865 (3 Credits)
The maturation and extension of a national culture.

HIST 462 - Southern Intellectual and Cultural History (3 Credits)
Intellectual and cultural developments characteristic of the Southern region from colonial times to the recent past.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HIST 463 - Jim Crow: Histories & Revivals (3 Credits)
This course critically examines the continuities and discontinuities between Jim Crow and our current historical and political moment.

Cross-listed course: AFAM 463

HIST 464 - History of American Women (3 Credits)
The social, political, and economic roles and changing status of women in America.

Cross-listed course: WGST 464
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

HIST 465 - American Diplomatic History (3 Credits)

HIST 466 - American Diplomatic History (3 Credits)

HIST 468 - American Military Experience (3 Credits)
Transformation of war and of the institutions for waging war from the American Revolution to the present.

Cross-listed course: ARMY 406

HIST 469 - Constitutional History of the United States (3 Credits)
A study of the constitutional development of the United States from the creation of the Articles of Confederation to the Civil War. It deals primarily with problems of governmental organization, judicial interpretation, and sectional politics.

HIST 470 - Constitutional History of the United States (3 Credits)
An analysis of the growth of constitutional power from 1860 to the present, giving special attention to the constitutional problems of the Civil War period, the increasing role of the judiciary in national affairs, and the general extension of constitutional authority in the 20th century.

HIST 471 - American Jewish History (3 Credits)
Examination of experiences of Jews in the United States from Colonial Period to late 20th century, especially Jewish immigration, political behavior, social mobility, religious affiliation, group identity formation, and meaning of Anti-Semitism in American and global contexts.

Cross-listed course: JSTU 471

HIST 475 - Historic Preservation (3 Credits)
Overview of historic preservation as the practice of protecting and conserving places that tell stories about the past.

HIST 476 - Digital History (3 Credits)
Introduction to Digital History that examines ways to engage and adapt the discipline of history to technological trends and explores new approaches and interpretive techniques.

HIST 478 - Material Culture in the Digital Age (3 Credits)
Examination of material culture (objects and artifacts a society produces) as primary sources for historical research; how these sources are transformed when digitized; and the nature of born-digital resources.

HIST 479 - Oral History (3 Credits)
Methodology, application and usage, historic and current literature, identification and examination of available resources.

Graduation with Leadership Distinction: GLD: Research

HIST 480 - Internship in Public History (3 Credits)
Professional practice in museums, archives, preservation organizations, and other agencies involved in historical research, advocacy, and preservation of historical resources and history programming for public audiences.

Experiential Learning: Experiential Learning Opportunity

HIST 492 - Topics in History (3 Credits)
Reading and research on selected historical subjects. Open only to juniors and seniors with permission of the instructor.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Research

HIST 493 - Topics in History (3 Credits)
Reading and research on selected historical subjects. Open only to juniors and seniors with permission of the instructor.

Graduation with Leadership Distinction: GLD: Research

HIST 494 - Topics in History (3 Credits)
Reading and research on selected historical subjects. Open only to juniors and seniors with permission of the instructor.

Graduation with Leadership Distinction: GLD: Research

HIST 497 - Senior Seminar (3 Credits)
Principles of historical research and writing as applied to the seminar topic. Open to history majors or by special permission of instructor.

Prerequisites: HIST 300.

Graduation with Leadership Distinction: GLD: Research

HIST 498 - Senior Seminar (3 Credits)
Principles of historical research and writing as applied to the seminar topic. Open to history majors or by special permission of instructor.

Prerequisites: HIST 300.

Graduation with Leadership Distinction: GLD: Research

HIST 499 - Senior Thesis (3 Credits)
Principles of historical research and writing. A senior year thesis related to one of the advanced courses in the major program.

Prerequisites: HIST 300.

Graduation with Leadership Distinction: GLD: Research
HIST 562 - The Middle East and the United States: 1800 to the Present (3 Credits)
Political, cultural, and economic ties which have linked the Middle East to the United States. Middle Eastern views of these relationships and their impact on modern Middle Eastern history.
Graduation with Leadership Distinction: GLD: Global Learning

HIST 599 - Topics in History (3 Credits)
Reading and research on selected historical topics. Course content varies and will be announced in the schedule of classes by title.

HIST 640 - South Carolina History (3 Credits)
South Carolina since colonization.

HIST 641 - The American South Comes of Age (3 Credits)
Changes in the Southern region since 1940.

HIST 692 - Historic Preservation Field Experience—Charleston, S.C. (3 Credits)
On-site introduction to historic preservation including research, interpretation, management, and economics of preservation. Offered only in Charleston during summer term.

Hlth Promo Educ & Beh (HPEB)

HPEB 300 - Introduction to Health Promotion, Education, and Behavior (3 Credits)
The historical and philosophical basis, current problems, career opportunities, and literature in the health promotion, education, and behavior change professions.

HPEB 301 - Practicum in Health Promotion (1-6 Credits)
Practical experience in applying health promotion principles in the community or organization.
Prerequisites: HPEB 300.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

HPEB 321 - Personal and Community Health (3 Credits)
Psychosocial health, stress management, leading infectious and noninfectious diseases, nutrition, physical fitness, sexuality, consumer health and health care access, environmental health, aging, and death.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HPEB 331 - Health Education for the Elementary School (3 Credits)
Methods and materials for elementary schools. Integration and correlation of materials with school subjects. Sample content developed for primary, intermediate, and upper grades.

HPEB 335 - First Aid and Emergency Preparedness (3 Credits)
Emphasis upon preparing school personnel to act responsibly in emergency situations. Includes the American National Red Cross standard and advanced first aid instruction.

HPEB 399 - Independent Study (1-3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor. Open to sophomores and above.
Graduation with Leadership Distinction: GLD: Research

HPEB 434 - Health Education (3 Credits)
Methods of teaching health in school and community settings; techniques and strategies.
Prerequisites: HPEB 221, HPEB 223, and HPEB 224.

HPEB 468 - Safety and Safety Education (3 Credits)
Place of safety in modern life. Contributing factors to accidents, developing an awareness of the potential accident situation with special emphasis upon school setting, planning for and conduct of a safety education program.

HPEB 470 - Principles of Global Health (3 Credits)
Examination of major global health topics and approaches used by governmental, non-governmental, international institutions and donor agencies to improve health in low and middle income countries. Critical analysis and generation of intervention strategies to combat health issues in various country settings.
Graduation with Leadership Distinction: GLD: Global Learning

HPEB 471 - Social Determinants of Health (3 Credits)
The social, cultural, economic, and political factors that influence health and its distribution within and between populations. How society helps shape our health beliefs, behaviors, and status.

HPEB 488 - Food Systems (3 Credits)
Multiple dimensions of food systems along multiple dimensions of theory and practice. Restricted to Junior or Senior level standing.
Prerequisites: 12 hours of minor completed and ECON 101.

HPEB 489 - Food Systems Capstone Seminar (3 Credits)
Synthesis and application of content and competencies of the minor in nutrition and food systems in a practical setting with emphasis on student identified areas for professional growth. Restricted to Senior level standing.
Prerequisites: HPEB 488.

HPEB 492 - Special Topics in Health Promotion, Education, and Behavior (3 Credits)
A study of special topics in health promotion, education, and behavior. Individual topics to be announced in master schedule by title.

HPEB 501 - Human Sexuality Education (3 Credits)
Planning, implementation and evaluation of effective sexuality education programs. Includes strategies for educating about a variety of sexuality topics (e.g., reproductive biology, relationships, HIV/AIDS, sexual orientation, pregnancy, childbirth, and parenting).

HPEB 502 - Applied Aspects of Human Nutrition (3 Credits)
Application of nutrition principles including functions of food and nutrients in health and disease prevention throughout the life cycle. Applied topics include weight management, food safety, and other contemporary issues.
Graduation with Leadership Distinction: GLD: Community Service

HPEB 511 - Health Problems in a Changing Society (3 Credits)
Current and emerging health problems in society: causes, effects, and prevention.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy

HPEB 512 - Southern Discomfort: Public Health in the American South (3 Credits)
Investigation of the unique health and disease profile of the American South, including regional disparities that remain unresolved despite a public health revolution. Topics range from endemic diseases of the antebellum period to the current HIV/AIDS crisis, and ethics of research.
HPEB 513 - Race, Ethnicity, and Health: Examining Health Inequalities (3 Credits)
A comprehensive overview of race/ethnicity and health. Class discussions will focus on comparing health status and health outcomes of different racial/ethnic groups in the U.S. and discussing possible explanations for inequalities from a behavioral science perspective. 
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HPEB 521 - The Total School Health Program (3 Credits)
A course designed to acquaint the student with the various facets of the modern school health program. Includes school responsibilities for health and safety instruction, school health services, school environmental health problems, school and community relationships, resources for health, and evaluation of programs.

HPEB 540 - Drug Prevention (3 Credits)
Nature of drug actions, motivational factors that influence the use and abuse of drugs, and examination and evaluation of procedures to provide effective drug prevention efforts.

HPEB 542 - Tobacco Prevention and Control in Public Health (3 Credits)
Examines policies and practices for tobacco prevention and control in public health.

HPEB 547 - Consumer Health in Contemporary Society (3 Credits)
An analysis and appraisal of issues related to the production and distribution of products and services as these activities affect consumer health.

HPEB 550 - Behavioral Concepts and Processes for the Health Professional (3 Credits)
The development of interpersonal skills in dealing with health clients in various settings.

HPEB 551 - Medical Anthropology: Field Work (3 Credits)
Application of observation techniques, field notes, informant interviewing, and secondary data analysis to interpreting differential perceptions of health problem solving in the community and clinic.

HPEB 552 - Medical Anthropology (3 Credits)
Socio-cultural factors in health, illness, healing, and in medical systems. Cross-cultural and ethnographic evidence for public health research and program applications. Cross-listed course: ANTH 552
Graduation with Leadership Distinction: GLD: Research

HPEB 553 - Community Health Problems (3 Credits)
Identification and analysis of major community health problems, their causes, the roles of individuals, community agencies, and government in affecting their solutions. Emphasis upon personal involvement and the responsibility for community health.
Graduation with Leadership Distinction: GLD: Community Service

HPEB 555 - Managing Stress (3 Credits)
Conceptualizing the nature of the stress; psychological, emotional, and spiritual aspects of stress; competency in the active management of stress and mobilizing support.

HPEB 560 - Cooking Up a Storm: Food, Globalization, Localization, and Health in the South (3 Credits)
The role of food in defining our relationships to our family, community, nation, and world. How food underlies much of the political, economic, and social struggles throughout the world.

HPEB 560 - Nutrition Through the Life Cycle (3 Credits)
Examination of nutritional concerns, requirements, and metabolism from pre-conception through the aging process; analysis of cultural, environmental, psychosocial, physical, and economic factors affecting nutritional status through the life cycle; and methods for assuring adequate nutrition through dietary selection, promotion of healthy eating throughout the life cycle and nutritional assessment for each state of the life cycle.

HPEB 621 - Maternal and Child Health (3 Credits)
Public health issues, social and behavioral science, policies, programs, and services related to maternal and child health in the United States and other countries. Cross-listed course: WGST 621
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

HPEB 627 - Lesbian, Gay, Bisexual and Transgender (LGBT) Health (3 Credits)
Health status and concerns of lesbian, gay, bisexual, and transgender communities. Includes an examination of measurement issues and methodological considerations in research, as well as intervention efforts targeting LGBT populations.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HPEB 631 - Health Promotion for Elementary and Middle School Teachers (3 Credits)
A multimedia course emphasizing health education strategies for major S.C. health problems, risk factors, and concepts of positive health behavior.

HPEB 640 - Behavioral Economics in Public Health (3 Credits)
The ways behavioral economics can help achieve goals in public health and health care. How behavioral insights can be applied to reach promotion aims ranging from achieving weight loss to medication adherence to appointment attendance.

HPEB 653 - Nutrition Assessment and Counseling (3 Credits)
Assessment of nutritional outcomes and work with research participants/patients. Methods for collection of dietary data, anthropometry, and body composition, including the use of new technologies. Nutrition counseling and interviewing techniques useful in gathering nutrition information.

HPEB 654 - Maternal and Child Nutrition (3 Credits)
A survey of current concepts in clinical and public health nutrition which are unique to infants, children, and pregnant and lactating women.

HPEB 674 - Social Networks, Social Capital, and Health (3 Credits)
Examination of health sciences and sociological research on social networks, social capital, and health. Theoretical and methodological foundations for network analysis of social relationships and health, design of public health interventions, and use of online social networks to promote health. Key constructs include social support, social capital, and social diffusion.

HPEB 679 - Addressing Childhood Obesity through Community Approaches (2 Credits)
Approaches for prevention of childhood obesity, using perspectives from public health, social work, exercise science, pharmacy, medicine, and behavioral nutrition. Training to teach diet/physical activity lessons in elementary school settings. Cross-listed course: SOWK 679
HPEB 680 - Laboratory Techniques in Physiological Measurement (3 Credits)
Practical laboratory skills and theoretical bases of measurements in human physiology; bioelectrical potentials, respiratory physiology, energy expenditure, body composition, temperature regulation, and biochemical assays.

HPEB 683 - Contemporary Topics in Sexual Health (3 Credits)
Comprehensive overview of contemporary topics in sexual health.

HPEB 684 - HIV/STI Prevention (3 Credits)
The role of effective behavioral interventions in preventing the spread of the human immunodeficiency virus (HIV) and other sexually transmitted infections (STI) among diverse populations.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Research

HPEB 690 - Independent Study (1-6 Credits)
Topics to be assigned and approved by advisor and department head.

Hlth Serv Policy Mgmt (HSPM)

HSPM 401 - Independent Study (3 Credits)
Enrollment and topic to be approved in advance by advisor and instructor.
Graduation with Leadership Distinction: GLD: Research

HSPM 412 - Health Economics (3 Credits)
Designed to serve as an introduction to economic principles and applications used in the health sector. The role economics plays in various aspects of health care, demand-side and supply-side factors and issues, how various health care systems are impacted.

HSPM 491 - Special Topics in Health Services Policy and Management (3 Credits)
Emerging issues in Health Services Policy and Management. May be repeated for a total of 6 credit hours as content varies by title.

HSPM 500 - Introduction to Health Care Management and Organization (3 Credits)
Provide students with overview of health services management, management techniques and the different roles and functions of the different health care services. Use of field trips and guest speakers from different health care providers.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

HSPM 509 - Fundamentals of Rural Health (3 Credits)
Overview of the delivery and financing of health care in the rural U.S., with emphasis on vulnerable rural populations and access to care.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

HSPM 510 - Comparative Health Systems and Health System Efficiency, Effectiveness, Sustainability and Equity (3 Credits)
Comparative health systems of the world including health system organization, management, financing, resource use and health outcomes.

HSPM 513 - Issues in Health Care Information Management (3 Credits)
An introduction to data management in healthcare institutions for undergraduate students and non-HSPM major graduate students. Topics include the nature of medical data, legal protections surrounding such information, and basis strategies for managing information technology resources.
Prerequisites: HSPM 500.

HSPM 514 - Introduction to Health Services Delivery and Policy (3 Credits)
Overview of health services delivery in the United States, including organization and financing of health care, health insurance practices, primary and long-term care among other topics.

HSPM 530 - Finance in Health Administration (3 Credits)
Introduction to health care finance. Course will teach reimbursement structures, regulatory mechanisms, cost control, and related factors unique to healthcare organizations.
Prerequisites: BADM 225.

Hosp Retail Sport Mgmt (HRSM)

HRSM 301 - HRSM Professional Development Seminar (3 Credits)
Strategies, tactics, and requisite skills for career success in the hospitality, retail, sport, entertainment, and technology industries. Course must be taken prior to HRSM internship.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Internships

HRSM 491 - Event Production, Evaluation, and Analysis (3 Credits)
This course examines and analyzes the effectiveness and efficiency of events in Hospitality, Tourism, Sport, Entertainment and Fashion and Retail Management industries. Event production, evaluation, and analysis will be conducted. Detailed activities involved in event production, evaluation, and analysis will be discussed and implemented.
Prerequisites: C or better in HRTM 364, and SPTE 203, and RETL 362.

HRSM 495 - Internship (1-6 Credits)
The internship is a supervised work experience in the student’s major area of study.

HRSM 497 - Senior Seminar (3 Credits)
Integration of prior academic work through the examination of problem inquiry, conduct of research, application of a solution development and the completion of a research paper.
Prerequisites: Senior status, and HRSM student (SPTE, HRTM, RETL, or BAIS).

Hotel Rest Tourism Mgmt (HRTM)

HRTM 110 - Introduction to Hospitality Industry (3 Credits)
History, growth, developments, and future opportunities in the hospitality industry.

HRTM 160 - Breads, Pastas and Sauces (1 Credit)
Hands-on training in the basic foundations of breads, pastas, and sauces. Basic bread types, pasta shapes, pasta sauces, food safety, and new techniques to create personalized dishes.

HRTM 161 - Breakfast (1 Credit)
Hands-on training in the basic foundations of meal preparation, simple breakfast staples, egg cookery, alternative breakfasts, basic food safety, and new techniques to create personalized dishes.

HRTM 162 - Cooking for Two (1 Credit)
Hands-on training in the basic foundations of cooking complete dinners for two people. Includes effective purchasing, appetizers, complete meals, proper table set-up, desserts, and special meal ideas.

HRTM 163 - Desserts (1 Credit)
Hands-on training in the basic foundations of meal preparation, staple dessert items, basic food safety, and new techniques to create personalized dishes.
HRTM 164 - Introduction to Healthy Mediterranean Cooking (1 Credit)
Basic elements of the traditional Mediterranean diet, cooking techniques, and how to cook and eat to stay fit and healthy.

HRTM 165 - Introduction to Cooking (1 Credit)
Hands-on training in the basic foundations of meal preparation, cooking basics, simple sauces, complete meals, staple dessert items, basic food safety, and new techniques to create personalized dishes.

HRTM 166 - Simply French (1 Credit)
Hands-on training in the basic foundations of meal preparation, French cooking basics, simple sauces, complete meals, staple dessert items, basic food safety, and new techniques to create personalized dishes.

HRTM 167 - Simply Italian (1 Credit)
Hands-on training in the basic foundations of classical Italian dishes, including sautéing, frying, and braising, basic food safety, and new techniques to create personalized dishes.

HRTM 168 - Tailgating 101 (1 Credit)
Hands-on training in the basic foundations of classic tailgating dishes, including grilling, frying, and braising, basic food safety, and new techniques to create personalized dishes.

HRTM 169 - ServSafe Sanitation (1 Credit)
Food safety and sanitation in a commercial kitchen operation.

HRTM 190 - Special Topics in Culinary Arts (1-3 Credits)
Special topics within the culinary discipline designed to give students a hands-on approach to learning special techniques, cooking styles and preparation, and practical application used in the foodservice industry. Content varies by title. May be repeated.

HRTM 228 - Purchasing and Controls (3 Credits)
A study of the major foods, beverages, and supplies that are purchased in hotels, motels, and food-service establishments as well as techniques on how to control their distribution within the operation.

HRTM 230 - Hospitality Management (3 Credits)
Tools available to management and their utilization in the hospitality industry.

HRTM 250 - Hotel Management (3 Credits)
Management of the lodging phase of the hospitality industry to include front desk, housekeeping, and maintenance areas.

HRTM 270 - Quantity Food Production (3 Credits)
The basics of food production from storeroom to consumer. Various techniques of storage, preparation, merchandising, and menu-planning, as well as the many aspects of service. One lecture and three laboratory hours per week.

HRTM 280 - Foundations of Tourism (3 Credits)
Basic introduction to the social science of tourism in the US and the world, including definitional issues, motivations for travel, factors influencing demand-side and supply-side growth, the tourism product, market segmentation and marketing, socioeconomic, and ecological impacts, and destination life cycle dynamics. May not be used to satisfy Carolina Core requirements for HRTM majors.

Carolina Core: GSS

HRTM 285 - Club Management (3 Credits)
Unique problems and issues associated with private club management.

HRTM 289 - Hospitality and Tourism Practicum (6 Credits)
Supervised full-time work experience in an area of the hospitality and tourism industry, selected by the student and approved by the practicum coordinator. 400 hours required.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

Experiential Learning: Experiential Learning Opportunity

HRTM 304 - Nutrition (3 Credits)
The utilization of food by the body; menu planning and food production for institutions in relation to regular and modified diets.

HRTM 344 - Personnel Organization and Supervision (3 Credits)
Recruitment, selection, utilization, and development of human resources; role of supervisors in management and personnel administration.

Cross-listed course: RETL 344

HRTM 352 - Software Applications for the Hospitality Industry (3 Credits)
Using microcomputer software in various areas of the hospitality industry.

Prerequisites: ITEC 264.

HRTM 355 - Physical Plant Design (3 Credits)
Design, equipment, and maintenance of hospitality facilities.

HRTM 357 - Hotel and Restaurant Law (3 Credits)
A comprehensive overview of laws and regulatory agencies governing the lodging and food services industries.

Prerequisites: ITEC 240.

HRTM 362 - Wedding Planning and Management (3 Credits)
Sociocultural, political, economic, religious, and legal influences on wedding planning and business strategies will be explored as background to practices relevant to successful wedding planning and consultancy for diverse clients.

HRTM 364 - Conference and Meeting Planning (3 Credits)
Planning and managing conferences and meetings in the tourism industry.

HRTM 370 - Restaurant Food Production Management (3 Credits)
Management techniques and operating problems in food service operations. One lecture and five laboratory hours per week.

Prerequisites: HRTM 270.

HRTM 372 - Catering Management (3 Credits)
Management techniques, including planning, production, and performance of off-premise catering.

Prerequisites: HRTM 270.

HRTM 375 - Wine, Beverage and Culture (3 Credits)
This course provides a broad base of knowledge, covering all commercially relevant beverages including origins, tradition and culture.

HRTM 376 - Contract Foodservice Management (3 Credits)
Issues related to the management of contract foodservice accounts.

HRTM 381 - Travel and Destination Management (3 Credits)
Describes role of travel agencies, tour operators, tour guides, transportation providers, and attractions as critical sectors within the travel industry.

Prerequisite or Corequisite: HRTM 280.

HRTM 382 - Travel and Tourism Law (3 Credits)
This course focuses on legal issues affecting the tourism industry, including international travel law, travel litigation, liability, and topics specific to travel agencies, carriers, attractions, and destinations.
HRTM 383 - Ecotourism (3 Credits)
Focuses on tourism that is nature-based and entails a learning component while being managed for environmental, economic, and sociocultural sustainability.
Prerequisite or Corequisite: HRTM 280.

HRTM 384 - Cultural and Heritage Tourism (3 Credits)
The effective presentation, development, management, and marketing of cultural and heritage tourist attractions, including battlefields, plantations, and pilgrimage sites.
Prerequisite or Corequisite: HRTM 280.

HRTM 386 - Tourism Festival Planning and Management (3 Credits)
Planning, marketing, sponsorship, budgeting, management, impacts, and evaluation of successful and sustainable special tourism festivals are discussed from both a theoretical and practical perspective.
Prerequisite or Corequisite: HRTM 280.

HRTM 387 - Cruise Ship Industry (3 Credits)
Organization, market segmentation, marketing, design, anatomy of experience, environmental and social impacts, health and safety, and trends within cruising.
Prerequisite or Corequisite: HRTM 280.

HRTM 388 - Resort Development and Management (3 Credits)
Examines effective practices in the sustainable planning, development, and management of resorts and spas, including host community relations, social effects, design, marketing, operations, finance, and recreation programming.
Prerequisite or Corequisite: HRTM 280.

HRTM 389 - International Tourism Field Experience (3 Credits)
An experiential field trip where students evaluate selected tourism issues and products in an international destination.
Prerequisite or Corequisite: HRTM 280.

HRTM 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

HRTM 410 - HRTM Current Issues (3 Credits)
Issues and problems concerning the hospitality industry.

HRTM 421 - Hospitality Financial Management (3 Credits)
Financial decision making including ratio analysis, asset management, leverage, short, intermediate, and long-term financing in the hospitality industry.
Prerequisites: RETL 262.

HRTM 428 - Sustainable Foodservice Systems (3 Credits)
Factors affecting the food supply in the United States and world. The class will explore the economic, political, legal, and societal forces affecting the distribution system of our food supply.
Prerequisites: HRTM 228.

HRTM 440 - Services Management for Hospitality and Tourism (3 Credits)
Management issues pertinent to quality service delivery in hospitality and tourism organizations.

HRTM 450 - Hospitality and Tourism Marketing (3 Credits)
Application of marketing principles and promotional techniques to the hospitality and travel industry.

HRTM 455 - Hospitality Sales Management (3 Credits)
Basic sales management policies and procedures within the hospitality industry with emphasis on sales planning, preparation, presentations and client contact within hospitality organizations.
Prerequisite or Corequisite: HRTM 260.

HRTM 470 - Current Issues in Nutrition (3 Credits)
Basic nutrition concepts as a foundation to address nutrition, health trends, concerns, and current nutritional issues in the modern world.
Prerequisites: HRTM 340.

HRTM 473 - Club Cuisine and Service (3 Credits)
Advanced topics in the management of production and service techniques for private clubs.
Prerequisites: HRTM 270, HRTM 285.

HRTM 475 - Wines and Spirits in Food Service Establishments (3 Credits)
Management overview and operating problems of beverages in the hospitality industry.

HRTM 476 - Craft Beer (3 Credits)
Study of craft beer through exploration of current trends, countries of origin, beer styles, flavor profiles, food flavor pairings and best business practices. Students must be 21 years old.

HRTM 481 - Analytical Techniques in Tourism and Hospitality (3 Credits)
Examination and application of analytical and research methods to tourism and hospitality problems.
Prerequisites: STAT 201 or equivalent.

Graduation with Leadership Distinction: GLD: Research

HRTM 482 - Sustainable Tourism Planning and Policy (3 Credits)
Principles and practice of tourism planning fostering sustainable tourism development at international, national, state, regional, local and site levels.

HRTM 483 - Tourism Economics (3 Credits)
Macro- and microeconomic dimensions of tourism are considered in relation to the demand and supply of tourism products at the national, state, regional, and local levels.
Prerequisites: ECON 224.

HRTM 484 - Tourism Information Technology Issues (3 Credits)
Information technologies such as e-commerce, e-marketing, and e-research are examined, critiqued, and applied within a tourism context.
Prerequisites: ITEC 264.

HRTM 485 - Sustainable Tourism (3 Credits)
Principles and practices of environmental, economic, and sociocultural sustainability in tourism are described and analyzed.

HRTM 490 - Hospitality Management Strategies (3 Credits)
Contemporary management strategies applied to the hospitality industry.
Prerequisites: MGMT 371.

HRTM 495 - Hospitality and Tourism Internship (6 Credits)
Structured industry practical experience in a hospitality or tourism company. 400 hours required.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity
HRTM 508 - International Managing Hotel and Restaurant Operations (3 Credits)
This course will examine international hotel and restaurant operations with an emphasis on the management of high-quality business operations for a mega golf-tourism event; includes an experiential learning/fieldwork component.
Prerequisites: HRTM 591, HRTM 592.

HRTM 521 - Revenue Management (3 Credits)
Analysis of revenue management in the hospitality industry with an emphasis on the theory and dynamics of revenue management, the implementation of capacity management, forecasting and discounting.
Prerequisites: HRTM 450.
Corequisite: HTRM 421.

HRTM 560 - Advanced Lodging Management (3 Credits)
Advanced principles of the management of hotels and resorts.
Prerequisites: HRTM 260.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
Experiential Learning: Experiential Learning Opportunity

HRTM 564 - Advanced Meeting Management (3 Credits)
Analysis of current issues and problems in the meetings industry with emphasis on planning, organizing, managing, and enhancing meetings.
Prerequisites: HRTM 364.

HRTM 565 - International Lodging Management (3 Credits)
Analysis of the structure of international lodging companies, challenges of marketing U.S. lodging companies abroad, and cultural differences in international management.
Prerequisites: HRTM 260.

HRTM 567 - Multi-Cultural Dimensions of the Hospitality Industry (3 Credits)
Multicultural, multiracial, and multiethnic factors within the hospitality and tourism industry.
Prerequisites: MGMT 371 or RETL 344.

HRTM 580 - Adventure Travel Management (3 Credits)
Analysis of the adventure travel industry throughout the world, with emphasis on the management, marketing, and operation of an adventure travel business.

HRTM 584 - Tourism Information Technology Issues (3 Credits)
Information technologies such as e-commerce, e-marketing, and e-research are examined, critiqued, and applied within a tourism context.
Prerequisites: ITEC 264 or equivalent.

HRTM 585 - Advanced Club Management (3 Credits)
Advanced topics in hospitality management for the club industry.
Prerequisites: HRTM 285.

HRTM 590 - Special Topics in HRTM (3 Credits)
Advanced concepts, issues, and trends in the hospitality and tourism industry. May be taken twice for degree credit.

HRTM 591 - Golf Tourism (3 Credits)
Effective practices used in the planning, development, and promotion of golf tourism. Experiential learning component for evaluating selected issues, problem solving, and participating in the operational performance of a large golf tournament. Employment with a pre-approved golf tournament or permission of instructor.

HRTM 592 - Golf Tourism Consumer Services (1 Credit)
Examines superior customer service in high-quality business operations for a mega golf-tourism event; includes an experiential learning/fieldwork component.
Prerequisites: HRTM 591.

HRTM 593 - Golf Tourism Supervisory Skills (1 Credit)
Examines basic supervisory skills in high-quality business operations for a mega golf-tourism event; includes an experiential learning/fieldwork component.
Prerequisites: HRTM 591, HRTM 592.

HRTM 594 - Golf Tourism Leadership Skills (1 Credit)
Examines management and leadership skills in high-quality business operations for a mega golf-tourism event; includes an experiential learning/fieldwork component.
Prerequisites: HRTM 591, HRTM 592, HRTM 593.

HRTM 597 - Global Travel and Tourism (3 Credits)
Study of the economic, social, cultural, political, and environmental considerations of international tourism management and development.
Prerequisites: HRTM 280.

Instr and Teacher Educ (EDTE)

EDTE 101 - Introduction to Careers in Education (2 Credits)
A survey of professional issues and concerns in education.

EDTE 101P - Practicum in Careers in Education (1 Credit)
Seminars and visits to schools and classrooms.
Prerequisite or Corequisite: EDTE 101.

EDTE 201 - Issues and Trends in Teaching and Learning (3 Credits)
Introduces and examines current issues and trends in teaching and learning.
EDTE 202 - Global Citizenship and Social Responsibility through Education (3 Credits)
Examining the continuing evolution of education and the direct impact on the development of social responsibility, values, and our place as global citizens.
Carolina Core: GSS, VSR

EDTE 218 - Convergence and Divergence in African American and Jewish Relations: Historical and Contemporary (3 Credits)
An examination of African American and Jewish American inter-ethnic, historical and contemporary connections and disconnections. Implications for educational, social, and social settings are considered.
Cross-listed course: AFAM 218, JSTU 218

Carolina Core: GSS, VSR

EDTE 400 - Learning Through Community Service (1 Credit)
Documentation and synthesis of community service activities designed to prepare professional educators.
Corequisite: EDFN 300 and enrollment in an approved community experience.

Graduation with Leadership Distinction: GLD: Community Service

EDTE 448 - Teaching Internship in Foreign Languages (3 Credits)
Application of effective teaching techniques and organization of instructional settings in foreign languages for K-12.
Prerequisite or Corequisite: admission to the professional program of education.
Cross-listed course: FORL 448
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

EDTE 474 - Directed Teaching in Foreign Languages (15 Credits)
Students apply methods of curriculum and assessment, professionalism, effective teaching, and organization of instructional settings during internship in foreign language classrooms.
Prerequisites: admission to the professional program of education.
Cross-listed course: FORL 474
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
Experiential Learning: Experiential Learning Opportunity

EDTE 522 - Integrated Curriculum at the Middle Level (3 Credits)
Constructing, teaching, and assessing an integrated curriculum for students in middle schools. Upper level undergraduate students exploring middle level education.

EDTE 590A - Internship in Curriculum and Assessment (3 Credits)
Internship for practice in classrooms appropriate to the level of certification sought (early childhood or elementary) related to curriculum design and assessment.
Prerequisites: admission to internship II in early childhood or elementary education.
Corequisite: EDTE 590B and EDTE 590C.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDTE 590B - Internship in Teaching (3 Credits)
Internship for practice in classrooms appropriate to the level of certification sought (early childhood or elementary) related to interactive teaching.
Prerequisites: admission to internship II in early childhood or elementary education.
Corequisite: EDTE 590A and EDTE 590C.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDTE 600 - Systematic Effective Teaching (3 Credits)
Application of research-supported effective teaching techniques to the teaching-learning process, including demonstration lessons, observations, and supervisory conferences.

EDTE 605 - Cooperative/Team Learning in Education (3 Credits)
Instructional approaches, materials, and procedures for utilizing cooperative/team learning in education.

EDTE 610 - Integrated Reading and Writing Instruction (3 Credits)
Theoretical bases and techniques for teaching reading and writing in the elementary school, using multiple subject areas.

EDTE 611 - Whole Language: Concepts and Practices (3 Credits)
Development of concepts, materials, and practices to implement a whole language philosophy.

EDTE 620 - Restructuring Schools: Teachers and Classrooms (3 Credits)
Examination of issues related to restructuring schools based on different assumptions about teaching, learning, and assessment.

EDTE 621 - Middle Level School Today (3 Credits)
National trends in the middle level school; emphasis on the relationship of early adolescent developmental characteristics to organization, curriculum, instruction, and teaching.

EDTE 625 - Integrating Character Education into Instructional Programs (3 Credits)
Rationale, processes, and methodologies for integrating character education into school or school district instructional programs.

EDTE 626 - Service Learning for Schools, Community, and Workplace Responsibility (3 Credits)
Assist school personnel in designing academic, personal, civic, and workplace responsibility.

EDTE 631 - Technology to Support Instruction (3 Credits)
Introduction to computers, educational technology, and selected applications for instructional management.

EDTE 671 - Computers in Science Education (3 Credits)
Use of computer technology in teaching and managing science classes and problems in grades K-12.
Integrated Info Tech (ITEC)

ITEC 101 - Thriving in the Tech Age (3 Credits)
Pervasive impact of computers on today's global society; skills and strategies for using technology. How information technologies impact daily life and drive change.

ITEC 143 - Advanced Business Document Preparation (3 Credits)
Emphasis on production and versatility in preparing business documents. Not for TSTM majors. For business teacher certification.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ITEC 204 - Program Design and Development (3 Credits)
Fundamental algorithms and processes used in business information systems. Development and representation of programming logic. Introduction to implementation using a high-level programming language.
Prerequisites: C or better in either CSCE 101, MGSC 290 or ITEC 264.

Cross-listed course: CSCE 204, MGSC 298

ITEC 233 - Introduction to Computer Hardware and Software (3 Credits)
Understanding of current computer hardware and software through computer building, repairing, and troubleshooting.

ITEC 242 - Business Communications (3 Credits)
Theory and processes in written business communications; composing effective business letters and reports.
Prerequisites: C or better in both ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ITEC 243 - Word Processing Concepts and Technology (3 Credits)
Introduction to word processing concepts and applications.
Prerequisites: keyboarding.

ITEC 245 - Introduction to Networking (3 Credits)
Understanding the essential concepts of computer networks, including standards, topologies, security, media, switching, routing, and more.
Prerequisites: C or better in ITEC 233.

ITEC 264 - Computer Applications in Business I (3 Credits)
Survey of core skills and techniques for spreadsheet design and analysis of business problems.

ITEC 265 - Introduction to Databases (3 Credits)
Fundamentals of modern database design and applications.

ITEC 270 - Records Control (3 Credits)
Analysis and control of office records including creation, processing, maintenance, protection, and disposition.
Prerequisites: ITEC 264.

ITEC 293 - Cybersecurity Operations (3 Credits)
Operations in Security Operations Centers (SOC). Securing information systems by monitoring, analyzing, detecting, and responding to security events.
Prerequisites: C or better in ITEC 233 or CSCE 145.

ITEC 301 - Professional Internship Seminar (3 Credits)
Preparation for professional internship.
Prerequisites: C or better in both ITEC 242 and ITEC 370.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ITEC 352 - Software Design (3 Credits)
Survey of core software development principles, application development from pseudocode and flow charting through coding process.
Prerequisites: C or better in CSCE 204 or ITEC 204.

ITEC 362 - Introduction to Web Systems (3 Credits)
Introduction to web based systems, including HTML, CSS, and JavaScript; working with Content Management systems (Wordpress, Joomla); Accessibility, SEO, and web development best practices.
Prerequisites: C or better in either ITEC 101, CSCE 101, or CSCE 102.

ITEC 370 - Database Systems in Information Technology (3 Credits)
Survey of techniques for working with enterprise-level database systems.
Prerequisites: C or better in ITEC 265.

ITEC 390 - Special Topics in Information Technology (1-3 Credits)
Advanced concepts, issues, and trends in information technology. Course content varies and will be announced in the schedule of classes by title. May be taken twice for credit.

ITEC 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

ITEC 444 - Introduction to Human Computer Interaction (3 Credits)
Human computer interaction: human factors of interactive software, methods to develop and assess interfaces, interaction styles, and design considerations.
Prerequisites: C or better in either CSCE 204 or CSCE 145; and C or better in ITEC 362.

Graduation with Leadership Distinction: GLD: Research

ITEC 445 - Advanced Networking (3 Credits)
Advanced administration of client/server networks with major emphasis on network operating system software.
Prerequisites: C or better in ITEC 245.

ITEC 447 - Management of Information Technology (3 Credits)
Overview of current practices and trends in end-user technology and information system management.
Prerequisites: C or better in ITEC 101 and ITEC 245.

ITEC 472 - Directed Teaching in High School (Business Education) (12 Credits)
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

ITEC 475 - Mainframe Systems (3 Credits)
Introduction to the large scale computer systems used by businesses to support thousands of simultaneous users and process millions of transactions.
Prerequisites: C or better in ITEC 352, or C or better in CSCE 146.

Cross-listed course: CSCE 415

ITEC 476 - Job Control Language (3 Credits)
Programming in job control language used to process batch jobs on mainframe computers. Use of standard system utility programs.
Prerequisites: C or better in ITEC 352, or C or better in CSCE 146.

ITEC 493 - Information Technology Security for Managers (3 Credits)
Information technology security from a managerial perspective, including security awareness, risk assessment, and security policy development.
Prerequisites: C or better in ITEC 445.
ITEC 495 - Professional Internship (6 Credits)
Internship coordinated by a faculty member and supervised by an approved business supervisor. Contract approved by instructor, advisor, and department head is required for undergraduate students.
Prerequisites: C or better in ITEC 301.

Experiential Learning: Experiential Learning Opportunity

ITEC 544 - Training Systems (3 Credits)
Theory, design, and implementation of technology-based training systems, including hardware and software solutions.
Prerequisites: C or better in ITEC 444.

ITEC 545 - Telecommunications (3 Credits)
Telecommunications systems, applications, and equipment allowing for the global dissemination of information.
Prerequisites: C or better in ITEC 245.

ITEC 552 - Linux Programming and Administration (3 Credits)
Shell scripting and administration in the Linux operating system.
Prerequisites: C or better in ITEC 204, or C or better in CSCE 145.

ITEC 560 - Project Management Methods (3 Credits)
Project management principles and standard practices, including software applications for project management.
Prerequisites: C or better in ITEC 362; and C or better in either ITEC 264 or MGSC 290.

ITEC 562 - Advanced Web Support Systems (3 Credits)
The development of advanced, dynamic, Web-based information systems, including the integration of back-end database-records management systems.
Prerequisites: C or better in ITEC 362.

ITEC 564 - Capstone Project for Information Technology (3 Credits)
Application of project management software, technologies, and practices to the design and implementation of real-world capstone projects.
Prerequisites: C or better in both ITEC 362 and ITEC 560.

ITEC 570 - Database Management and Administration (3 Credits)
Introduction to database administration and implementation using an enterprise-level Relational Database Management System (RDBMS).
Prerequisites: C or better in ITEC 370.

ITEC 590 - Special Topics in Integrated Information Technology (3 Credits)
Advanced concepts, issues, and trends in technology support and training management. Course content varies and will be announced in the schedule of classes by title. May be repeated twice for credit.

Interdisciplnry Studies (IDST)

IDST 390 - Introduction to Interdisciplinary Inquiry (3 Credits)
A study of the history, philosophy, and theory of and modes of inquiry in interdisciplinary studies.

International Business (IBUS)

IBUS 301 - Introduction to International Business (3 Credits)
Provides an introduction to frameworks, tools, and factual knowledge useful for understanding the institutional and competitive environment and managerial challenges of firms engaged in international business. Restricted to business administration majors. International business majors excluded.
Prerequisites: MKTG 350, FINA 363.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 310 - Globalization and Business (3 Credits)
The business opportunities and threats for individuals, companies, and countries created by the growth of globalization, and how companies must operate in diverse foreign environments and engage in specialized transactions.
Graduation with Leadership Distinction: GLD: Global Learning

IBUS 401 - International Financial Management (3 Credits)
The financial management of a multinational business enterprise.
Prerequisites: ECON 222 and FINA 363.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 402 - International Marketing (3 Credits)
Cultural, legal, political, and economic factors affecting international marketing of products and services. Emphasis on differences in life styles, beliefs, attitudes, etc., and their influences upon marketing decisions.
Prerequisites: MKTG 350.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 403 - International Entrepreneurship (3 Credits)
Develop a business plan for a global startup, integrate international strategy into the business model and financing strategy, analyze the costs of internationalization.
Prerequisites: IBUS 310.

IBUS 405 - International Information Systems (3 Credits)
An examination of the challenges and opportunities associated with the development, management, and use of global information systems.
Cross-listed course: MGSC 405
Graduation with Leadership Distinction: GLD: Global Learning

IBUS 406 - International Human Resource Management (3 Credits)
This course examines how human resources are managed within a global context. It examines how human resources are managed within global firms as well as across different cultural settings.
Prerequisites: MGMT 374.

Cross-listed course: MGMT 406
Graduation with Leadership Distinction: GLD: Global Learning

IBUS 421 - Business Anthropology (3 Credits)
Analyze the relevance of anthropological theory for business, diverse business cultures, and their impact on global business practices.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 422 - Foreign Market Entry and Growth (3 Credits)
International market selection, global market entry, and growth and regional expansion strategies. Topics covered through readings, case studies, and an international marketing simulation game.
Prerequisites: IBUS 310.
IBUS 423 - Cross-Cultural Behavior and Negotiations (3 Credits)
Understanding of cross-cultural differences and their effects on individual behavior and business practices in organizations.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 424 - Exporting and Importing (3 Credits)
The conduct of international trade, including terms of sale (INCOTERMS), financing arrangements, means of payment, credit insurance, shipping and insurance issues, support services, and trade facilitation.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 425 - Competitive Strategies in Developing Countries (3 Credits)
Strategies multinational companies use to compete in developing countries. Topics include management of political risk, impact of culture, and corporate responsibility and ethics.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 426 - Global Competitive Analysis (3 Credits)
The course examines how to leverage the competitive advantage of the firm to another country, access comparative advantages of another location, and link these two to create cross-country advantages.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 427 - Global Stakeholder Management (3 Credits)
Survey of the managerial, political, economic, sociological and psychological foundations of global stakeholder management and engagement through extant theory and case study examples of successful and failed stakeholder management strategies in various industries and multiple countries.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 428 - Islamic Economics and Finance (3 Credits)
Introduction to Islamic economics and financial systems and their relationship to multinational corporations and international business.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 429 - Comparative Innovation Systems (3 Credits)
To analyze how innovation is approached by firms in different institutional climates around the world.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 430 - Research in International Business (3 Credits)
This seminar introduces students to research issues related to conducting studies in a cross-cultural setting. Students also develop an awareness of current international research programs.
Prerequisites: C or better in both IBUS 310, and MGSC 291.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 431 - Intercultural Competencies for Working in International Teams (3 Credits)
How to recruit, lead, and collaborate more effectively in international teams by examining differences related to culture, work-values, economic climate, and career progression.
Prerequisites: IBUS 310.

Cross-listed course: MGMT 431
IBUS 432 - The Business Case for Services Offshoring (3 Credits)
How to formulate and present a professional judgment on a corporate initiative (like services offshoring) with a sound business case based on the elements of cost, benefit, risk, and strategic flexibility.
Prerequisites: IBUS 310.

IBUS 433 - Economic Globalization: Leadership and the Transnational Mindset (3 Credits)
Explore evolving and emerging issues facing international business leaders in the 21st century to develop a greater understanding of economic globalization and the intersection of the public, private, and non-profit sectors and their interrelationship with particular emphasis on security.
Prerequisites: IBUS 310.

IBUS 434 - Social Networks and Global Leadership (3 Credits)
Survey of social network theories and evidence, such that you are able to better identify, build, and navigate the social settings in which your career unfolds. Concepts are applied to several case studies of multinational enterprises to illustrate the network coordination challenges of global business.
Prerequisites: IBUS 310.

IBUS 435 - Market Development and Global Strategy (3 Credits)
Prerequisites: C or better in IBUS 310.

IBUS 436 - Risk Management and Security Strategies in International Business (3 Credits)
An interdisciplinary understanding of how multinational enterprises interact with political, sociocultural and economic environments worldwide and the ability of leaders to develop effective strategies in navigating complex security risks. Prerequisite: FINA 341 for Finance Majors.
Prerequisites: IBUS 310 for IB Majors. FINA 341 for Finance Majors.

IBUS 441 - Business in Latin America (3 Credits)
Discussion of the contemporary business environment of and business practices in the countries of Latin America.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 442 - Business in Asia (3 Credits)
Discussion of business environments and business practices in countries in Asia.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning
IBUS 443 - Business in Europe (3 Credits)
Discussion of business environments and business practices in the countries from Western, Central, and Eastern Europe and Russia.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 444 - Business in Africa (3 Credits)
Discussion of business environments and business practices in the countries of Africa.
Prerequisites: IBUS 310.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 490 - Specialized Study in International Business (0-12 Credits)
Topics in international business. Reading and research on selected topics in the practices in the international business environment. Course content varies and will be announced in the schedule of courses by title.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 519 - Social Networks and Global Leadership (3 Credits)
A survey of social network theories and evidence that provide theoretical, empirical and practical examples of how different social network configurations achieve different function goals. Concepts are applied to case studies of multinational enterprises to illustrate the network coordination challenges of global business.
Prerequisites: C or better in IBUS 310.

IBUS 521 - Ethnographic Methods in International Marketing (3 Credits)
Analyze the relevance of anthropological theory for business, diverse business cultures, and their impact on global business practices.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 541 - Business in Latin America (3 Credits)
Discussion and analysis of business environments and business practices in the countries of Latin America.
Prerequisites: IBUS 310 for Undergraduates.

Prerequisite or Corequisite: DMSB 714 or IBUS 705 or IBUS 707 for Graduate Level.

IBUS 542 - Business in Asia (3 Credits)
Discussion and analysis of business environments and business practices in the countries of Asia.

Prerequisites: IBUS 310 for Undergraduates.

Prerequisite or Corequisite: DMSB 714 or IBUS 705 or IBUS 707 for Graduate Level.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 543 - Business in Europe (3 Credits)
Discussion and analysis of business environments and business practices in the countries of Europe.
Prerequisites: IBUS 310 for Undergraduates.

Prerequisite or Corequisite: DMSB 714 or IBUS 705 or IBUS 707 for Graduate Level.

IBUS 544 - Business in Africa (3 Credits)
Discussion and analysis of business environments and business practices in the countries of Africa.
Prerequisites: IBUS 310 for Undergraduates.

Prerequisite or Corequisite: DMSB 714 or IBUS 705 or IBUS 707 for Graduate Level.

Graduation with Leadership Distinction: GLD: Global Learning

IBUS 590 - Specialized Study in International Business (0-3 Credits)
Topics in international business. Reading and research on selected topics in the practices in the international business environment.
Prerequisites: C or better in IBUS 310.

Italian (ITAL)

ITAL 121 - Elementary Italian (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills.

Carolina Core: GFL

ITAL 122 - Basic Proficiency in Italian (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: ITAL 121.

Carolina Core: GFL

ITAL 130 - Accelerated Basic Proficiency in Italian (6 Credits)
Accelerated development of essential listening, reading, speaking, and writing skills to obtain the Basic Proficiency Level in Italian. Credit may be received only for one of the following: ITAL 121 and ITAL 122, or ITAL 130.

ITAL 221 - Intermediate Proficiency in Italian I (3 Credits)
Practice and rapid development of accurate skills in speaking, listening, reading, and writing. Features BBC television course.

Prerequisites: ITAL 122.

ITAL 222 - Intermediate Proficiency in Italian II (3 Credits)
Practice and further rapid development of accurate skills in speaking, listening, reading, and writing. Features BBC television course.

Prerequisites: ITAL 221.

ITAL 230 - Accelerated Intermediate Italian (6 Credits)
Accelerated development of intermediate level listening, reading, speaking, and writing skills in Italian. Credit may be received only for one of the following: ITAL 221 and ITAL 222, or ITAL 230.

Prerequisites: ITAL 122 or ITAL 130.

ITAL 310 - Italian Conversation (3 Credits)
Oral practice with advanced protocols of Italian conversation, focusing on perfecting rhythms and tonalities, and on a clear presentation of meaning.

ITAL 311 - Writing in Italian (3 Credits)
Introduction to letter, short essay, and creative writing, and to newspaper reports and selected essays as models of self-expression.

Prerequisites: ITAL 222.

ITAL 350 - Advanced Italian Study Abroad (3-6 Credits)
Intensive language practice, emphasizing oral proficiency skills and advanced conversational protocols. Classroom instruction by native speakers, extensive contact with native environment, field trips. May be repeated for credit by permission.

Prerequisites: ITAL 122.
ITAL 398 - Selected Topics (3 Credits)
Intensive study of selected literary and cinematic topics of the Italian world. May be repeated for credit as topic varies by title. Taught in English.

ITAL 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

ITAL 400 - Contemporary Italian Civilization (3 Credits)
Significant values in the Italian cultural heritage, as presented in native print and visual media.
Prerequisites: ITAL 310 and ITAL 311, or ITAL 350.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

ITAL 404 - Twentieth Century Italian Literature (3 Credits)
Selected plays, short stories, novels and poems which characterize quality achievements by Italians, and which promote a better understanding of Italian life.
Prerequisites: ITAL 310 and ITAL 311, or ITAL 350.

ITAL 405 - The Italian Love Lyric (3 Credits)
Italian love poetry, beginning with the "Dolce Stil Nuovo" of the late Middle Ages and ending with post-WWII avant-garde poetry.
Prerequisites: ITAL 310 and ITAL 311, or ITAL 350.

ITAL 406 - Business Readings in Italian (3 Credits)
Selected literature from the Italian business world, such as correspondence, brochures, specialized newspapers and magazines, biographies of businessmen, prospectuses, and annual reports.
Prerequisites: ITAL 310, ITAL 311 and ITAL 312, or ITAL 350.

ITAL 407 - Advanced Conversation and Composition (3 Credits)
Prepares students for making lengthy formal reports in Italian, both written and oral, on topics of importance for success within an Italian environment.
Prerequisites: ITAL 310 and ITAL 311, or ITAL 350.

ITAL 411 - Italian Literature in Translation (3 Credits)
Italian writers, focusing on the works of Dante, Petrarch, and Boccaccio, with additional selections from later authors.

ITAL 412 - Post-World War II Italian Cinema (3 Credits)
Italian films of high esthetic value that present major cultural concerns of post-WWII Italians. Skills in film criticism and analysis. Films are subtitled. Taught in English.

ITAL 499 - Senior Project (3-6 Credits)
Directed independent research project, with a formal presentation and public discussion.

Graduation with Leadership Distinction: GLD: Research

ITAL 560 - Independent Studies in Italian Literature (1-3 Credits)
Special topics in Italian literature.

ITAL 561 - Independent Studies in Italian Literature (1-3 Credits)
Special topics in Italian literature.

ITAL 615 - Intensive Readings in Italian (3 Credits)
Graduate students fulfill their foreign language reading requirement with successful completion of the course. Undergraduates may take the course as an elective only.

Japanese (JAPA)

JAPA 121 - Elementary Japanese (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.
Carolina Core: GFL

JAPA 122 - Basic Proficiency in Japanese (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills. Admission only by successful completion of Japanese 121.
Prerequisites: JAPA 121.

Carolina Core: GFL

JAPA 221 - Intermediate Japanese I (3 Credits)
Review and continuation of fundamentals of the language; development of oral and reading skills.
Prerequisites: JAPA 122 or JAPA 123.

JAPA 222 - Intermediate Japanese II (3 Credits)
Review and continuation of fundamentals of the language; development of written and oral expression.
Prerequisites: JAPA 221.

JAPA 224 - Reading and Writing Japanese (3 Credits)
Acquisition and advancement of kanji literacy and writing skills. Development of foundational skills to review basic kanji and to aid in inferring the meaning of higher level kanji. Covers 250 kanji characters with supplementary instruction through many mediums (brush writing, postcards, meishi).
Prerequisites: JAPA 121 and JAPA 122.

JAPA 240 - Introduction to Japanese Culture (3 Credits)
Introduction to Japanese culture through an examination of cultural elements such as traditions, arts, history, geography, people, society, and religion. Taught in English.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

JAPA 321 - Advanced Japanese I (3 Credits)
Improvement of skills in conversation and composition; advanced reading in modern Japanese materials.
Prerequisites: JAPA 222 or JAPA 223.

JAPA 322 - Advanced Japanese II (3 Credits)
Continuation of JAPA 321, with emphasis on strengthening proficiency in the use of Kanji.
Prerequisites: JAPA 321.

JAPA 331 - Japanese for Business I (3 Credits)
Development of language skills specific to the Japanese business world and its practices.
Prerequisites: JAPA 222 or JAPA 223.

JAPA 332 - Japanese for Business II (3 Credits)
This is a continuation of JAPA 331.
Prerequisites: JAPA 331.

JAPA 340 - Introduction to Japanese Culture and Literature (3 Credits)
Introduction to Japanese literature and its cultural background. Conducted in English, but some background of Japanese is recommended.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
JAPA 341 - Modern Japanese Literature (3 Credits)
Survey of modern Japanese literature and its cultural background up to the present. Conducted in English, but some knowledge of Japanese is required.
Prerequisites: JAPA 340.

JAPA 350 - Japanese Culture and Society through Film (3 Credits)
Examination of Japanese culture and contemporary society using selected films. Taught in English.

JAPA 351 - Japanese Culture and Society through Theatre (3 Credits)
Introduction to Japanese traditional theater and its influences on Japanese culture and society. Taught in English.
Cross-listed course: THEA 369

JAPA 353 - Japanese Culture and Society through Animation (3 Credits)
Examination of Japanese culture and contemporary society through studying of popular animations. Taught in English.

JAPA 398 - Selected Topics (3 Credits)
Intensive study of selected topics in Japanese literature and culture. May be repeated for credit as topic varies by title. Taught in English.

JAPA 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

JAPA 421 - Advanced Japanese III (3 Credits)
Development of proficiency in speaking, reading, and writing through advanced studies of authentic Japanese materials.
Prerequisites: JAPA 322, JAPA 323.

JAPA 422 - Advanced Japanese IV (3 Credits)
Strengthening proficiency in writing and reading.
Prerequisites: JAPA 421.

JAPA 500 - Japanese Language in Society (3 Credits)
Japanese language and communication in its sociocultural context; emphasis on comparison with American English. Taught in English.
Cross-listed course: LING 546

Jewish Studies (JSTU)

JSTU 218 - Convergence and Divergence in African American and Jewish Relations: Historical and Contemporary (3 Credits)
An examination of African American and Jewish American inter-ethnic, historical and contemporary connections and disconnections. Implications for educational, social, and social settings are considered.
Cross-listed course: AFAM 218, EDTE 218
Carolina Core: GSS, VSR

JSTU 230 - Introduction to Judaism (3 Credits)
Overview of Jewish experiences, beliefs, practices from a contextual point of view.
Cross-listed course: RELG 230

JSTU 301 - Hebrew Bible (Old Testament) (3 Credits)
Modern study of the Hebrew Bible from historical, literary, and archeological points of view. Reading and analysis of texts in translation.
Cross-listed course: RELG 301

JSTU 373 - Literature and Film of the Holocaust (3 Credits)
Film, poetry and literature created in response to the Holocaust as the means for a decades long cultural discussion, in European and American societies, of the moral and religious implications of the Holocaust on our self-understandings as religious and moral beings.
Cross-listed course: RELG 373
Graduation with Leadership Distinction: GLD: Global Learning

JSTU 381 - Jewish History I: Late Antiquity to 1500 (3 Credits)
The religious, cultural, social, and political conditions that shaped the Jewish experience in the Near East and Europe from Late Antiquity to 1500.
Cross-listed course: HIST 383, RELG 381

JSTU 382 - Jewish History II: 1500 to the Present (3 Credits)
Case studies of Jewish history in Europe, America, and the land of Israel, 1500 to the present.
Cross-listed course: HIST 384, RELG 382

JSTU 387 - Jews and Muslims (3 Credits)
Jewish-Muslim relations in the Near East and the US; an exploration of Jewish-Muslim encounters, issues of religious law, politics, radical religious ideologies, and their repercussions for today.
Cross-listed course: RELG 387
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

JSTU 388 - Kabbalah: Science, Religion and Nature in Western History (3 Credits)
Historical investigation of kabbalah, a philosophical system and mystical current common to Judaism, Islam, and Christianity, from the medieval period to the present; focus on its formative role in early modern Western cosmology and science, and its ecological implications today.
Cross-listed course: HIST 388, RELG 388

JSTU 471 - American Jewish History (3 Credits)
Examination of experiences of Jews in the United States from Colonial Period to late 20th century, especially Jewish immigration, political behavior, social mobility, religious affiliation, group identity formation, and meaning of Anti-Semitism in American and global contexts.
Cross-listed course: HIST 471

JSTU 475 - Visions of Apocalypse (3 Credits)
Symbolic visions, tours of heaven and hell, cosmic battles, divine judgment, messianic figures, prophecy, or other forms of revelation as found in literature, art, or social movements from diverse geographical and historical locations.
Cross-listed course: RELG 475

JSTU 491 - Special Topics in Jewish Studies (3 Credits)
Intensive study of special topics in Jewish Studies; may emphasize interdisciplinary themes. Maybe be repeated as content varies by title.

JSTU 492 - History of the Holocaust (3 Credits)
Introduction to Nazi Germany's systematic mass-murder of Europe's Jews and other minorities during war. Examination of forces that led to the Holocaust, including scientific racism, Nazi policy implementation, and dynamics of annihilation during war.
Cross-listed course: HIST 380

Journalism (JOUR)

JOUR 101 - Media and Society (3 Credits)
Principles, history, philosophies, theories of the mass media and allied professions and their societal role and impact.
JOUR 201 - Principles of Public Relations (3 Credits)
Methods used by business, government, consumer groups, minorities, environmentalists, and others to influence public attitudes toward their activities.

JOUR 202 - Principles of Advertising and Brand Communications (3 Credits)
An introduction to the advertising and strategic communications industries. Discussion of the structure and history of the business, social impacts and regulation, research, planning, creative, media planning, sales promotion, event promotion and the integrated nature of all promotional communication.

JOUR 203 - Principles of Visual Communications (3 Credits)
Theory and history of visual communication in the mass media emphasizing informational and persuasive messages created by graphic, photographic, and multimedia processes.

JOUR 204 - Principles of Journalism (3 Credits)
Principles and foundations of journalism to reflect both how journalism serves communities and how its techniques are developed to effectively communicate to audiences.

JOUR 205 - History and Philosophy of the Mass Media (3 Credits)
Development of the mass media in the United States from colonial times to the present. The effects of American social, cultural, political, and economic theory on the media.

JOUR 215 - Special Topics in Mass Communications (3 Credits)
Readings, critical review, discussion and analysis addressing significant issues in mass communications. Topics may change from term to term. May be repeated for credit with different course topics.

JOUR 220 - Account Planning: Mining Insights (3 Credits)
Topics include data mining from secondary sources, and use of primary research tools such as surveys, focus groups, ethnography and projective techniques.
Prerequisites: JOUR 101 and STAT 201 or equivalent.

Graduation with Leadership Distinction: GLD: Research

JOUR 244 - Special Topics in Sports Media (3 Credits)
Topics addressing issues in the world of the sports media. Topics may change from term to term. May be repeated for credit with different topics.

JOUR 245 - Live Television Sports Production (3 Credits)
This course is designed to introduce students to all aspects of live television production of various venue sporting events. Through readings, lectures and hands-on experience, students will learn how major broadcast networks produce live sports events.

JOUR 261 - Journalism Trends (3 Credits)
Study and analysis of current and emerging issues in journalism philosophy and practice and how audiences perceive it. Emphases may change as practices evolve and issues emerge.

JOUR 291 - Writing for Mass Communications (3 Credits)
Basic writing skills for all areas of the mass media. Lecture-laboratory.
Prerequisites: C or better in ENGL 101 and ENGL 102.

JOUR 303 - Law and Ethics of Mass Communications (3 Credits)
Examination of First Amendment free speech and press guarantees and limitations, including commercial speech regulation, libel, privacy, copyright, trademark and open records and meetings, and related ethical principles for mass communications professionals.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 304 - Internet and Social Media Law (3 Credits)
Examination of the origins and history of First Amendment and related law and ethics, with an emphasis on how they apply to the Internet and social media.

JOUR 306 - Theories of Mass Communications (3 Credits)
Survey of predominate theories in mass communications including mass media uses, functions, and effects.
Prerequisites: JOUR 201.

JOUR 308 - Media and Youth (3 Credits)
An introduction to media uses and effects research, considering cognitive, affective, and social development as a framework for analyzing media effects on youth.

JOUR 311 - Minorities, Women, and the Mass Media (3 Credits)
The study of the relationship among persons of color, women, and the mass media in the United States.
Cross-listed course: WSST 311
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

JOUR 316 - Toolkit for Brand Communications (3 Credits)
The theories, principles and conventions of powerful brand communications, both visual and verbal.
Prerequisites: JOUR 202 and JOUR 291.
Corequisite: JOUR 316L.

JOUR 316L - Toolkit for Brand Communications Lab (1 Credit)
Project execution related to visual and verbal concepts of brand communications.
Prerequisites: JOUR 202 and JOUR 291.
Corequisite: JOUR 316.

JOUR 329 - A Focused Look at Brand Communications (1 Credit)
Topics in advertising and strategic communications. Individual topics and
Prerequisites: to be announced with title.

JOUR 330 - Advertising and Brand Communications Speakers Series (1 Credit)
Advertising and brand communications industry experts share insights about industry trends, innovative campaigns and careers.
Prerequisites: JOUR 101.

JOUR 331 - Social Media Marketing Strategy (3 Credits)
Instruction on how to align social media with business objectives and overall communication strategies; and exploration of how organizations have incorporated social media into various departmental functions.
Prerequisites: C or better in all of the following JOUR 291; JOUR 201 or JOUR 202.

JOUR 332 - Mass Communications Research (3 Credits)
Fundamentals of mass communications research methods and applications. Survey, observational and experimental research; primary research data-gathering techniques; secondary research sources; data analysis; message, market, competitive and audience research measures.
Prerequisites: JOUR 201 and a course in basic statistics.
JOUR 333 - Public Relations for Nonprofit Organizations (3 Credits)
Theory and practice of developing public relations strategies and messaging for nonprofit organizations with a focus on audience research, donor relations, membership recruitment and fund raising.
Prerequisites: JOUR 291.

Graduation with Leadership Distinction: GLD: Community Service

JOUR 340 - Special Topics in Public Relations (3 Credits)
Special topics course addressing current issues, problems, and/or trends in public relations. Topics may change from term to term. May be repeated for credit with different course topics.

JOUR 343 - Social Media for Sports Media (3 Credits)
Effective social media use in the world of the sports media. Topics relating to advertising, journalism, public relations, visual communications, and mass communications will be discussed. Provides contextual background on various social media and uses exercises to develop best practices.

JOUR 345 - Gender, Sexuality, and Sports Media (3 Credits)
How the sports media culture helps create and maintain, as well as challenge, inequalities based on gender and sexual identity. Students will learn how gender and sexuality are constructed through sports media and how they intersect with race, class, able-bodiedness and nationality.

JOUR 346 - Graphics for Visual Communications (3 Credits)
The personal computer and software related to the design and production of graphic and photographic images for print and onscreen media.
Prerequisites: JOUR 203.

JOUR 347 - Photography for Visual Communications (3 Credits)
Introductory photography that includes digital SLR camera use, multiple lenses, lighting, editing and distribution for web and display. Emphasis is on storytelling images for publication in editorial and persuasive media.
Prerequisites: JOUR 203.

JOUR 348 - Creative Thinking and Problem Solving (3 Credits)
This course introduces the fundamental principles of creative behavior. Theoretical and practical methods of problem-solving as well as discovery, evaluation, and implementation of new ideas.

JOUR 349 - Introductory Reporting and Writing (2 Credits)
Basics of news reporting: Story generation, critical thinking, story development, writing, shooting and editing broadcast stories, writing Web stories, using visual components of still pictures, graphics and video.
Prerequisites: JOUR 291.

JOUR 361L - Introductory Reporting and Writing Lab (1 Credit)
Basics of news reporting: Story generation, critical thinking, story development, writing, shooting and editing broadcast stories, writing Web stories, using visual components of still pictures, graphics and video.
Prerequisites: JOUR 291.

Corequisite: JOUR 361.

JOUR 362 - Editing (3 Credits)
Skills and techniques required in preparing stories for publication. Laboratory work includes editing various kinds of copy and writing headlines.
Prerequisites: JOUR 291.

JOUR 371 - Social Media and Mobile Journalism (3 Credits)
This course provides an introduction on how to use online social platforms and mobile tools following journalistic editorial guidelines. Students will get an overview of the digital-first mindset that informs and enriches their professional preparation.
Prerequisites: C or better in JOUR 204 and JOUR 291.

JOUR 382 - Business Basics for Communications (3 Credits)
Students will gain a fundamental understanding of business and how write about it. Students will learn how various aspects of business, finance and the economy relate to individuals, communities, companies, governments and world events and how to communicate that impact.

JOUR 384 - Professional Perspectives in Business Communications (1 Credit)
These classes focus on specific areas of business communications to either deepen students’ understanding of the subject or improve their ability with a particular skill (reporting, writing, editing, videography, social media, etc.). These topics may change from term to term.
Prerequisites: C or better in JOUR 382.

JOUR 391 - Sports Media and Society (3 Credits)
History of sports media and an analysis of current relationships between the sports industry, athletes, media, social media and the audience.

JOUR 392 - Podcasting and Audio Production (3 Credits)
This course is designed to teach you the fundamentals of audio storytelling, from conception and field gathering skills to writing for the ear and basic non-linear audio production. You will learn to distinguish the ways audio stories differ from those in print, and produce different types of media projects.
Prerequisites: JOUR 291.

JOUR 393 - Digital Signage (3 Credits)
This class is introduces you to what is rapidly becoming the “fifth screen” digital signage, its place in modern communications, some of the issues surrounding it and how to create and evaluate content for it. Students will evaluate the SJMC digital sign system and may create content for it.
Prerequisites: JOUR 291.

JOUR 398 - Diversity Topics in Mass Media (3 Credits)
Topics addressing the intersection of race, gender, sexual orientation, or other forms of diversity or marginality and mass media. Topics may change from term to term. May be repeated for credit with different topics.

JOUR 399 - Special Topics (3 Credits)
Topics in journalism and mass communications. Individual topics and prerequisites; check with student services or the syllabus for the section you are interested in.
Prerequisites: to be announced. Some topics may have; check with student services or the syllabus for the section you are interested in.

JOUR 400 - Digital Media and Big Data Analysis (3 Credits)
Understanding digital media concepts including AI, blockchain, net neutrality, big data, privacy, and network analysis.

JOUR 416 - Creative: Strategy to Execution (3 Credits)
Principles and practices of developing creative and effective brand communications and to acquire proficiency in execution of brand communications.
Prerequisites: JOUR 220 and JOUR 316.
JOUR 419 - Special Topics in Advertising (3 Credits)
Topics addressing contemporary issues in advertising and brand communications. Topics may change from term to term. May be repeated for credit with different topics.

JOUR 421 - Media Analysis (3 Credits)
Research and development of a media plan using integrated communications approach and simulation models.

Prerequisites: JOUR 202.

Graduation with Leadership Distinction: GLD: Research

JOUR 428 - Super Bowl Commercials (3 Credits)
An exploration of how Super Bowl commercials reflect and influence our society. Topics include the way different groups are portrayed, the strategy behind the commercials, and how creative tactics have evolved.

Prerequisites: JOUR 101, JOUR 201, JOUR 291 and JOUR 436.

JOUR 436 - Public Relations Writing (3 Credits)
Special areas of writing for public relations.

Prerequisites: JOUR 201 and JOUR 291.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 437 - Advanced Public Relations Writing (3 Credits)
An applied writing skills laboratory that will review and create advanced types of public relations writing and study applicable theory, models and research methods.

Prerequisites: JOUR 101, JOUR 201, JOUR 291 and JOUR 436.

JOUR 438 - Media Relations (3 Credits)
Planning and writing skills to effectively execute media relations, including how to research reporters and outlets, build a media relations plan, create messaging platforms, identify and prepare spokespeople, manage crisis communications and employ social media.

Prerequisites: JOUR 436.

JOUR 440 - Leadership and Internal Relations Management (3 Credits)
Leadership and communication inside an organization as a component of public relations management; strategy, change management, ethics, employees from executive to labor, and organizational theory applied to engage internal stakeholders.

Prerequisites: C or better in JOUR 201.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 443 - Sports Announcing (3 Credits)
This course is designed to introduce students to various aspects of live sports broadcasting. Students will learn skills and techniques that will prepare them to perform live on-air duties including game play-by-play and color analyst.

Prerequisites: C or better in JOUR 291.

JOUR 446 - Informational Graphics (3 Credits)
Visual presentation of quantitative and spatial information. Examines the planning, design, and preparation of statistical graphs, charts, timelines, diagrams, and maps.

Prerequisites: JOUR 203, JOUR 346 and STAT 110.

JOUR 447 - Photovisual Communications II: Advanced Photography (3 Credits)
Developing professional, portfolio-quality photographic images for use in the mass media.

Prerequisites: JOUR 347.

JOUR 448 - Multimedia for Visual Communications (3 Credits)
Team-based multimedia storytelling with an emphasis on studio and location lighting to produce professional-level photography projects and short videos for use in a variety of applications, including editorial assignments and persuasive communications.

Prerequisites: C or better in JOUR 347 and JOUR 447.

JOUR 449 - Design of Online Content (3 Credits)
Introduction to the skills and processes involved in the design and display of online content such as interactive graphics, animation, and video. Considerations for designing and delivering content on a variety of platforms from personal computers to mobile devices.

Prerequisites: JOUR 346.

JOUR 450 - Studio and Location Lighting for Still Photography (3 Credits)
Still photography lighting techniques for mass media applications. Emphasis on studio and on-location lighting of portraits, fashion, illustrations, food and product photography.

Prerequisites: JOUR 347.

JOUR 451 - Freelancing for Creative Professionals (3 Credits)
The theory and practice of entrepreneurship as they apply to creative professionals interested in starting their own freelance business.

JOUR 452 - Photojournalism (3 Credits)
Immersive course in long-form photojournalism storytelling. Students will spend the semester documenting a topic, with emphasis on gathering images with high technical level and compelling content. Class will edit content and create a presentation for the public compelling content.

Prerequisites: C or better in JOUR 347.

JOUR 455 - Special Topics in Visual Communications (3 Credits)
Introduction to issues surrounding the history, theory, skills and techniques of developing and niche visual communications technologies, topics, skills and concepts. Topics may change from term to term. May be repeated for credit with different topics.

JOUR 461 - Sports Journalism (3 Credits)
This course introduces students to the core principles, values, and best practices that guide the work of professional sports journalists. Students will develop skills that are necessary to function as sports journalists in today's media environment.

Prerequisites: C or better in JOUR 361.

JOUR 471 - Intermediate Reporting and Production (3 Credits)
Continuing development of students' ability to identify, gather, write, edit and present news, responsibly and ethically, across a range of formats, alone and in teams.

Prerequisites: JOUR 204, JOUR 303, JOUR 361.

Graduation with Leadership Distinction: GLD: Research

JOUR 472 - Power Producing (3 Credits)
Examines the art and skill of television news producing, providing students the opportunity to learn about the production process in a real-world, hands-on environment.

Prerequisites: C or better in JOUR 361, JOUR 346, or JOUR 347.
JOUR 475 - Special Topics in Nonfiction Storytelling with Emerging Technologies (3 Credits)
Students produce in-depth journalism projects using a range of storytelling tools and technologies, such as: websites, interactive graphics/maps, HD- and 360-video, drones, AR/VR technology, and podcasting. May be repeated for credit with different topics.
Prerequisites: C or better in JOUR 361 or JOUR 447.
Graduation with Leadership Distinction: GLD: Research

JOUR 480 - Media Management (3 Credits)
This course provides an introduction to and overview of issues and practices in media management. You will steep yourself in and become conversant about economic, industrial and societal forces that influence modern media content curation, production and distribution.

JOUR 482 - Business Reporting and Writing (3 Credits)
This course is designed to build on your basic knowledge of various aspects of business and give you the tools and skills you need to synthesize sometimes complex information and communicate it clearly and accurately to an audience.
Prerequisites: C or better in JOUR 382.

JOUR 483 - Reporting and Writing About the Economy (3 Credits)
This course is designed to build on your basic knowledge of various aspects of the economy and give you the tools and skills you need to synthesize sometimes complex information and communicate it clearly and accurately to an audience.

JOUR 491 - Communication and Information Transfer (3 Credits)
An overview of the communication models, major concepts, trends, and other related issues of information transfer with a focus on information seeking and use in digital age.
Prerequisites: JOUR 101 or SLIS 201.

Cross-listed course: SLIS 420

JOUR 499 - Special Topics (3 Credits)
Topics in journalism and mass communications. Individual topics will vary by title.
Prerequisites: to be announced in class schedule.

Graduation with Leadership Distinction: GLD: Research

JOUR 501 - Freedom, Responsibility, and Ethics of the Mass Media (3 Credits)
Historical development of freedom, responsibility, and ethics in the mass media, including communication theories, pressures, ownership.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

JOUR 504 - International Mass Communications (3 Credits)
A comparative study of world mass communications media, with particular attention to press systems, the sources and flow of international news, and the problems and implications of world communications.

JOUR 506 - Mass Media Criticism (3 Credits)
Development of critical thinking skills for analyzing mass media.
Prerequisites: JOUR 101.

JOUR 507 - Communicating Science, Health and the Environment (3 Credits)
Explores the role of journalism in shaping perceptions of scientific issues and task. Emphasis on methods of effectively communicating about science, health, and the environment.

JOUR 508 - Faith, Values, and the Mass Media (3 Credits)
Faith and values influence the media. An examination of the influence, why it happens, and of religious diversity and the increased public presence of religions, including Hinduism and Islam.
Prerequisites: JOUR 291 and junior or senior standing or consent of instructor
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

JOUR 515 - Mass Communications Capstone Portfolio (3 Credits)
Development of Mass Communications E-portfolio showcasing and reflecting on coursework and experiential learning, with a focus on leadership, as preparation for matriculation in higher education or careers in mass media.
Prerequisites: C or better in JOUR 501, JOUR 506, or JOUR 542.

JOUR 516 - Advanced Creative (3 Credits)
Development of writing styles for print and broadcast advertising.
Prerequisites: JOUR 416.

JOUR 517 - Integrated Campaigns (3 Credits)
The development of a complete, well coordinated integrated communications plan that incorporates research and analysis techniques, critical thinking, team work, creative and tactical skills.
Prerequisites: JOUR 416 and JOUR 421.

Graduation with Leadership Distinction: GLD: Research

JOUR 518 - Brand Communications Practicum/Competitions (3 Credits)
Application of advertising techniques and skills in preparation of full scale campaign.
Prerequisites: JOUR 332, JOUR 416, JOUR 421.

JOUR 521 - Interactive Communication Strategies (3 Credits)
The development of a complete, well-coordinated integrated communications plan that incorporates research and analysis techniques, critical thinking, team work, creative and tactical skills.
Prerequisites: JOUR 202 or MKTG 350.

JOUR 527 - Advertising Management (3 Credits)
The dynamics of leadership and management in the creative industries.
Prerequisites: JOUR 202.

JOUR 530 - Creative Leadership (3 Credits)
Theories of leadership as applied to creative industries. Students will engage and interact with community-based organizations to assess needs, plan communications strategies, lead student teams in developing those ideas, and present to clients. Junior standing or permission of instructor.

JOUR 531 - Public Relations Campaigns (3 Credits)
Development of public relations campaigns for business and social institutions. Case studies of public relations campaigns and programs.
Prerequisites: JOUR 201, JOUR 332, JOUR 436.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Research

JOUR 533 - Public Relations Management (3 Credits)
Researching, programming, staff, budgeting, and planning public-relations programs by business, government, or consulting firms.
Prerequisites: JOUR 201, JOUR 436.
JOUR 534 - Publication Writing and Design (3 Credits)
Publication writing and design as well as internal or constituent communications, specifically focused on an internal audience. Production of InterCom, the College of Mass Communications and Information Studies' alumni magazine.
Prerequisites: JOUR 291.

JOUR 536 - Crisis Communications (3 Credits)
Introduction to crisis communications and management from a strategic, theory-based approach using research from historical and current case studies.
Prerequisites: C or better in JOUR 436.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 537 - The Carolina Agency (3 Credits)
Participation in a functioning communications agency working for actual clients in a student-directed environment. Opportunity to both lead and be part of a team serving the communication needs of various clients.
Prerequisites: JOUR 101; JOUR 201; JOUR 203 or JOUR 202; and JOUR 291.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

JOUR 538 - The Bateman Team (3 Credits)
Self-directed development and implementation of a public relations campaign as part of a national competition: PRSSA's Bateman Competition.
Prerequisites: JOUR 332 and JOUR 436.

JOUR 539 - Ethics in Public Relations and Public Policy (3 Credits)
Review of the analytical process of resolving complex ethical issues and cases in public relations; study of the philosophical approaches to communication ethics.
Prerequisites: JOUR 101.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

JOUR 542 - Public Opinion and Persuasion (3 Credits)
Theory and practice of persuasive communication and the role of persuasion in shaping public opinion.

JOUR 550 - Advanced Magazine Article Writing (3 Credits)
Writing techniques used in the preparation and marketing of major nonfiction articles for national, regional, and local publications.
Prerequisites: JOUR 566.

JOUR 560 - Capstone Portfolio Development (3 Credits)
Advanced techniques of graphic and multimedia design and their application to problem-solving situations in the mass media. Emphasis on portfolio development.
Prerequisites: JOUR 446, JOUR 447, JOUR 449.

JOUR 563P - Public/Civic Journalism (3 Credits)
To gain an understanding of theory and practice of public/civic journalism, seen by its advocates as socially responsible journalism that attempts to build civic participation and empower communities.
Graduation with Leadership Distinction: GLD: Community Service

JOUR 566 - Magazine Article Writing (3 Credits)
Researching, organizing, writing, and marketing articles for publication in general and specialized publications.
Prerequisites: JOUR 361 or JOUR 436.

JOUR 573 - Editorial and Opinion Writing (3 Credits)
Content and style; writing of editorials, analyses, and commentaries.
Prerequisites: JOUR 291.

JOUR 574 - Data Journalism (3 Credits)
Acquiring, analyzing and presenting data using spreadsheets and other tools to uncover stories and provide depth and context to journalism.
Prerequisites: JOUR 291.

JOUR 575 - Broadcast Journalism Practicum (3 Credits)
Production of public affairs programs.
Prerequisites: JOUR 326, JOUR 333, and JOUR 434.
Corequisite: JOUR 502, JOUR 503, and JOUR 526.

JOUR 576 - Reporting Public Affairs (3 Credits)
Concentrated analyses of reporting in special fields, particularly in the South, including coverage of government, business, labor, the arts and sciences.
Prerequisites: JOUR 361.

JOUR 579 - Broadcast Announcing (3 Credits)
Theory and practice of professional broadcast announcing. Lecture-demonstration-laboratory course in principles underlying professional performance before microphones and cameras and the various broadcast performance functions.
Prerequisites: JOUR 325.

JOUR 580 - Advanced Reporting Topics (3 Credits)
Study and application of highly specialized reporting on topics related to current public discourse. May be repeated as content varies by title.
Corequisite: JOUR 587, JOUR 589, and JOUR 590 or JOUR 586, JOUR 588 and JOUR 590.

JOUR 586 - Capstone I - Advanced Reporting - Broadcast and Online Journalism (3 Credits)
Professional practice in meeting daily newscast deadlines through work on the Carolina News television newscast. Focus on polished reporting, performance and production techniques and demonstration of advanced television reporting skills under deadline pressure.
Prerequisites: JOUR 471.
Corequisite: JOUR 588 and JOUR 590.

JOUR 578 - Capstone I - Advanced Reporting - Multimedia Journalism (3 Credits)
Professional practice in shaping daily newscast deadlines through work on the Carolina News television newscast. Focus on polished reporting, performance and production techniques and demonstration of advanced television reporting skills under deadline pressure.
Prerequisites: JOUR 471.
Corequisite: JOUR 589 and JOUR 590.

JOUR 588 - Capstone II - Advanced Broadcast and Online Journalism Production (3 Credits)
Advanced newscast production skills developed in the context of producing daily Carolina News broadcast. Shape and coordinate reporting and production team under deadline pressure in newsroom setting.
Prerequisites: JOUR 471.
Corequisite: JOUR 586 and JOUR 590.
Korean (KORE)

KORE 121 - Elementary Korean (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.

KORE 122 - Basic Proficiency in Korean (4 Credits)
Practice and development of essential listening, reading, speaking, and writing skills.

Prerequisites: KORE 121.

KORE 221 - Intermediate Korean I (3 Credits)
Review and continuation of fundamentals of the language; development of oral and reading skills.

Prerequisites: KORE 122.

KORE 222 - Intermediate Korean II (3 Credits)
Increased emphasis on written and oral expression in Korean.

Prerequisites: KORE 221.

Latin (LATN)

LATN 109 - Beginning Latin I (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental reading skills. Admission to 109 restricted to those who have never studied Latin, who have not studied Latin in the previous five years, or who have a score of L-1 on the placement test.

Carolina Core: GFL

LATN 110 - Beginning Latin II (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental reading skills. Credit may not be received for both LATN 109/LATN 110 and LATN 121.

Prerequisites: LATN 109.

Carolina Core: GFL

LATN 121 - Elementary Latin (4 Credits)
Grammar and vocabulary necessary for fundamental reading skills. Assumes prior experience in Latin. Admission only by proficiency examination. Credit may be received for only one of the following: LATN 109/LATN 110 or LATN 121.

Carolina Core: GFL

LATN 122 - Basic Proficiency in Latin (3 Credits)
Practice and further development of essential reading skills.

Prerequisites: LATN 110 or LATN 121.

Carolina Core: GFL

LATN 301 - Advanced Readings in Latin Literature (3 Credits)
A survey of Latin literature designed for the student who wishes to develop a major or cognate in Latin.

Prerequisites: LATN 122.

LATN 321 - Virgil (3 Credits)
Readings from the Aeneid.

LATN 322 - Latin Literature of the Golden Age (3 Credits)
Selected readings in prose and poetry of representative authors.

LATN 342 - Latin Composition (3 Credits)
A study of Latin syntax in order to translate English prose into Latin. Instruction is individualized.

LATN 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

LATN 501 - Latin Drama (3 Credits)
Selected plays of Plautus and Terence.

LATN 502 - Cicero (3 Credits)
Readings from a variety of Cicero’s works to gain a concept of the man as a humanist.

LATN 504 - Horace (3 Credits)
Readings from the Odes.

LATN 508 - Ovid (3 Credits)
Selected readings from the Metamorphoses.

LATN 513 - Tacitus (3 Credits)
Agricola or selections from the Annales.
LATN 514 - Livy (3 Credits)
Readings from Ab Urbe Condita.

LATN 525 - Roman Satire (3 Credits)
Readings in Horace, Juvenal, and Petronius.

LATN 530 - Latin Erotic Poetry (3 Credits)
Readings from the elegies of Catullus, Tibullus, Propertius, and Ovid.

LATN 537 - Lucretius (3 Credits)
Readings from the De Rerum Natura.

LATN 540 - Renaissance Latin (3 Credits)
An examination of several genres of Latin writing from Europe during the period 1400-1600, emphasizing, but not limited to, Italian writers.

LATN 551 - History of Latin Literature from the Origins to the Golden Age (3 Credits)
Readings from the Twelve Tables to Virgil, supplemented by readings in history and scholarship. Designed to prepare majors and honors students for further study.

LATN 552 - History of Latin Literature in the Silver Age (3 Credits)
Readings from Ovid to Ammianus, supplemented by readings in history and scholarship. Designed to prepare majors and honors students for further study.

LATN 560 - Independent Study (1-3 Credits)
Special projects for independent study and research.

LATN 561 - Independent Study (1-3 Credits)
Special projects for independent study and research.

LATN 580 - Teaching Advanced Latin in Secondary School (3 Credits)
Methods and materials for teaching the Latin Advanced Placement courses in secondary school.

LATN 614 - Intensive Grammar Review in Latin (3 Credits)
Intensive grammar review for non-majors; designed as preparation for LATN 615.

LATN 615 - Intensive Readings in Latin (3 Credits)
Intensive reading for non-majors. Graduate students fulfill their foreign-language reading requirement with successful completion of the course. Undergraduates may take the course as an elective only.

Latin American Studies (LASP)

LASP 201 - Latin American, Caribbean, and Latino/a Cultures through Film (3 Credits)
Interdisciplinary introduction to the diversity of landscapes and political and social issues in Latin America's history. Films, lectures, and readings provide an overall comprehensive perspective. Lectures by faculty in Spanish, Portuguese, anthropology, and history.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

LASP 301 - Interdisciplinary Study of Latin America (3 Credits)
Anthropology, geography, history, politics, language, and culture of Latin America.
Graduation with Leadership Distinction: GLD: Global Learning

LASP 305 - Working with Hispanic Clients (3 Credits)
Crosscultural approaches to interactions with persons of Hispanic origin in a variety of professional settings. Readings, speakers, media. Taught in Spanish. Departmental permission required for transfer students.
Prerequisites: B or better in SPAN 210 or SPAN 211; placement at 300 level on Phase II placement exam.
Cross-listed course: SPAN 305
Graduation with Leadership Distinction: GLD: Community Service, GLD: Global Learning

LASP 311 - Latin American Cultures (3 Credits)
Comparative study of selected Latin American cultures with emphasis on their significance for a broader anthropological theory.
Cross-listed course: ANTH 301
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 315 - South American Indian Cultures (3 Credits)
An examination of ethnographic data on South American Indians, emphasizing methods used to acquire those data and their applications to theoretical considerations.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 322 - Mesoamerican Prehistory (3 Credits)
Cultural development and variation in Mesoamerica from the first arrival of man to the arrival of Europeans. Particular attention to cultural continuities from prehistoric times.
Cross-listed course: ANTH 331

LASP 325 - Prehistoric Civilizations of the New World (3 Credits)
Study of Mesoamerican and South American civilizations, particularly the Mayan, Aztec, and Inca states. Processes of state formation as reflected in archaeological data.
Cross-listed course: ANTH 327

LASP 331 - Geography of Latin America (3 Credits)
Physical and human geography of Latin America.
Cross-listed course: GEOG 223
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning

LASP 341 - Colonial Latin America (3 Credits)
The establishment and consolidation of the Spanish and Portuguese empires in the Western hemisphere; interaction of Indians, Africans, and Iberians, and the formation of social, economic, and political traditions in Latin America; political independence.
Cross-listed course: HIST 420

LASP 342 - Modern Latin America (3 Credits)
Traditional society in the area and problems arising from social, economic, and political changes since independence; comparative studies of national responses to these problems.
Cross-listed course: HIST 421
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 351 - Politics and Governments of Latin America (3 Credits)
The development, principles, political thought, and politics of the several Latin American states.
Cross-listed course: POLI 488
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences
LASP 361 - Spanish American Civilization (3 Credits)
Lectures, readings, and visuals on selected topics of Spanish American civilization and its cultural heritage.

LASP 371 - Literary Tendencies and Masterpieces of Spanish America (3 Credits)
A survey of the masterworks and literary tendencies of Spanish America.
Prerequisites: SPAN 312.

Cross-listed course: SPAN 405

LASP 398 - Special Topics in Latin American Studies (3 Credits)
Selected Topics on Latin America. May be repeated for credit as content varies by title.

LASP 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

LASP 425 - Prehistoric Archaeology of South America (3 Credits)
Prehistoric archaeology of the South American continent.
Cross-listed course: ANTH 534

LASP 441 - Social and Economic History of Latin America (3 Credits)
The evolution of social groups and changes in economic patterns in Latin America from pre-Columbian times to the present.
Cross-listed course: HIST 422

LASP 442 - History of Mexico (3 Credits)
Mexico from the pre-conquest period to the present, with an emphasis on modern Mexico.
Cross-listed course: HIST 423

LASP 451 - International Relations of Latin America (3 Credits)
Contemporary international relations among Latin American states, including economic and political security and relations with the United States.
Cross-listed course: POLI 437
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LASP 471 - Contemporary Spanish-American Literature (3 Credits)
Survey of the most significant work from 1960 to the present.
Cross-listed course: SPAN 557

LASP 496 - Senior Seminar (3 Credits)
Study in depth of a topic on Latin America.
Graduation with Leadership Distinction: GLD: Research

LASP 501 - Contemporary Spanish America (3 Credits)
Analysis and discussion of the 20th-century Spanish American history and the sociocultural forces that have contributed to define this area's national identities. Taught in Spanish.
Cross-listed course: SPAN 501

LASP 541 - Colonial Spanish-American Literature to Neoclassicism (3 Credits)
Survey or pre-Columbian poetry and of texts dating from the time of Columbus to the end of the Colonial period.
Cross-listed course: SPAN 541

Libraries (LIBR)

LIBR 101 - Information Literacy (1 Credit)
Introduction to methods and ethics of information research, with emphasis on analyzing and defining information needs and resources, creating and refining search strategies, evaluating resources, and synthesizing and citing information. Admission restricted to undergraduates.
Carolina Core: INF

Library & Info Science (SLIS)

SLIS 201 - Introduction to Information Science (3 Credits)
Major concepts, principles, theories, issues, and trends in the development of Information Science.

SLIS 202 - Introduction to Information Literacy and Technology (3 Credits)
An introduction to the basic information technologies used in all types of information organizations and the essential concepts and skills needed for information literacy.
Carolina Core: INF

SLIS 220 - Using Information Resources (3 Credits)
Introduction to information services and sources available in print and electronic format. Techniques for locating, evaluating, and using information resources basic to academic work.
Prerequisites: CSCE 101 or equivalent.

SLIS 250 - Introduction to Content Management Systems and Information Design (3 Credits)
Overview of responsive website design, development and basic content management systems. Examine the current tools and standards and learn how they function together in a modern web environment. Emphasis on the myriad of viewing devices and specific reference to the unique needs of information intensive institutions.

SLIS 301 - Information Storage and Retrieval (3 Credits)
Introduction to the concepts, issues, theories, and techniques of information storage and retrieval systems.
Prerequisite or Corequisite: SLIS 201.

SLIS 310 - Research Methods in Information Science (3 Credits)
Overview of major types of research methods and techniques within the field of information science. Methods of data analysis, evaluation of published research, and ethical principles.
Prerequisite or Corequisite: SLIS 201, STAT 110 or STAT 201.

Graduation with Leadership Distinction: GLD: Research

SLIS 315 - Information Policy (3 Credits)
Problems and ethical issues that arise in the development and implementation of information policies in Information Science.
Prerequisites: SLIS 201.

SLIS 325 - Children's Literature (3 Credits)
A study of materials for children from birth through elementary school (age 13) with emphasis on the evaluation, selection, and use of those materials to meet the educational, cultural, and recreational needs of children.
Graduation with Leadership Distinction: GLD: Community Service
SLIS 330 - Introduction to Computer Technology & Applications for Info Env (3 Credits)
The basic information technology concepts and applications relevant to library and related information environments. Unique information technology needs and applications of information-intensive organizations.

SLIS 402 - Introduction to Management Within Information Environments (3 Credits)
History, development, and implementation of theories and practices associated with managing information environments.
Prerequisite or Corequisite: SLIS 201.

SLIS 410 - Knowledge Management (3 Credits)
Introduction to the background, principles, practices, and technologies of knowledge management for library and information professionals.
Prerequisites: SLIS 301.

SLIS 415 - Social Informatics (3 Credits)
Examines the design, uses, and effects of information and communication technologies (ICTs) from the standpoint that society and technology mutually shape one another.

SLIS 420 - Communication and Information Transfer (3 Credits)
An overview of the communication models, major concepts, trends, and other related issues of information transfer with a focus on information seeking and use in digital age.
Prerequisites: SLIS 201 or JOUR 101.

Cross-listed course: JOUR 491

SLIS 429 - Information Management for Journalists (3 Credits)
Online resources specific to mass communications, research strategies, organization and creation of digital information.

SLIS 430 - User-Centered Information Architecture (3 Credits)
Processes and techniques for designing user-centered information systems on the Web. Issues of needs analysis, content development, cognitive models, human-computer interaction, interface design, and usability testing.
Prerequisites: SLIS 202.

SLIS 434 - Introduction to Knowledge Discovery (3 Credits)
The students will review knowledge discovery basics concepts, techniques, tools, and applications. This course is project based and the students will develop new Wikipedia pages by reading papers in a selected domain.
Prerequisites: MATH 122 or MATH 141 or MATH 142 or MATH 170 or MATH 172 or STAT 515 or STAT 201 or STAT 205.

SLIS 435 - Digital Information Infrastructure (3 Credits)
Theoretical and technological foundations of building the digital information infrastructure. Emphasis on technical aspects of managing digital assets for Intranet and Internet use.
Prerequisites: SLIS 202, SLIS 402.

SLIS 440 - Competitive Intelligence (3 Credits)
Strategies and techniques for locating competitive intelligence information.
Prerequisites: SLIS 201, SLIS 202, SLIS 301, SLIS 402.

SLIS 450 - Information Issues in Cultural Heritage Institutions (3 Credits)
Problem of identifying or defining cultural heritage and the issues and problems in preserving, accessing, and managing cultural heritage information. Issues such as copyright/ownership, technical problems of preservation and intellectual access, and the different ways in which libraries, archives, museums, zoos and other cultural heritage institutions operate.

SLIS 480 - Emerging Topics in Information Science (3 Credits)
Examination of selected current and emerging topics in the field of information science. May be repeated once for credit as topics vary.
Prerequisites: SLIS 201, SLIS 202, SLIS 301, SLIS 402.

SLIS 494 - Independent Study in Information Science (3 Credits)
Independent study in an area of information science relevant to the students professional goals. May be repeated once for credit as topics vary.
Prerequisites: SLIS 201, SLIS 202, SLIS 301, SLIS 402.

Graduation with Leadership Distinction: GLD: Research

SLIS 496 - Internship in Information Science (3 Credits)
Supervised field experience in an information agency relevant to students professional goals. Approval of the appropriate internship application must be submitted early in the semester preceding enrollment.
Prerequisites: SLIS 201, SLIS 202, SLIS 301, SLIS 402.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

SLIS 501 - Teaching and Training in Distributed Environments (3 Credits)
Knowledge and skills for applying complementary technologies for learning in distributed learning environments (Pre-K-lifelong) through lecture, demonstration, and discussion.

SLIS 523 - Materials for Early Childhood (3 Credits)
Media resources and techniques for children from birth to 9 years. Reading interests and developmental needs of young children. Authors, illustrators, indexes, bibliographic tools, evaluation sources, and professional literature. Not open to students enrolled in M.L.I.S. program.

SLIS 525 - Materials for Children (3 Credits)
Media resources for children. Reading interests and independent needs for information. Authors, illustrators, indexes, bibliographic tools, and sources of evaluation of materials for children. Techniques and literature for read-aloud programs and storytelling. Not open to students enrolled in M.L.I.S. program.

SLIS 527 - Materials for Adolescents (3 Credits)
Media resources for adolescents. Reading interests of adolescents and their curricular and independent information needs. Study of relationships of media to information needs and critical comparison between classic and contemporary materials for adolescents. Indexes, bibliographic tools, and sources of evaluation of materials. Not open to students enrolled in M.L.I.S. program.

SLIS 529 - Special Topics in Library and Information Studies (3 Credits)
Specific topics of current concern to the library, information, and media professions to be identified by title. Not open to students enrolled in M.L.I.S. program.
SLIS 530 - Applications of Information Technology and the Infrastructure (3 Credits)
Introductory knowledge for school library media specialists, teachers, administrators, parents, and other citizens interested in practical applications of information technology to support learning, decision making, and community building.

SLIS 534 - Knowledge Discovery Techniques (3 Credits)
Knowledge discovery techniques and applications.
Prerequisites: SLIS 434 for Undergraduate Students.

SLIS 560 - Information Visualization (3 Credits)
Foster theoretical insights about information visualization. Prepare small and large-scale datasets for visual representations. Project-based and students will map real datasets and understand the methods to interpret the visualizations.

SLIS 600 - Storytelling: Theory, Practice, and Development (3 Credits)
Storytelling methods, techniques, and materials encompassing heritage, art, literature, and programming.

Linguistics (LING)

LING 101 - Linguistics 1: Introduction to Language (3 Credits)
Introduction to the human capacity for language and to how it is acquired. Investigation of the social and geographical factors that contribute to language variation and change.
Carolina Core: GSS

LING 102 - Integrated Linguistic Skills for Non-Native Speakers 1 (3 Credits)
Linguistic skills for low-advanced non-native speakers of English related to writing, grammar, reading, listening and speaking for academic purposes. Students enrolled in the International Accelerator Program.
Corequisite: LING 103.

LING 103 - Integrated Linguistic Skills for Non-Native Speakers 2 (3 Credits)
Linguistic skills for low-advanced non-native speakers of English related to writing, grammar, reading, listening and speaking for academic purposes with a focus on research skills. Students enrolled in the International Accelerator Program.
Corequisite: LING 102.

LING 104 - Integrated Linguistic Skills for Non-Native Speakers 3 (3 Credits)
Linguistic skills for advanced non-native speakers English related to writing, grammar, reading, listening and speaking for academic purposes with a focus on productive skills. Students enrolled in the International Accelerator Program.

LING 105 - Special Topics in Linguistics I (3 Credits)
Topics of a broad nature that require no previous study in linguistics. May be repeated as content varies by title.

LING 140 - Linguistic Diversity Awareness (2 Credits)
A course designed to cultivate awareness of phonological and grammatical differences among dialects of English and ability to switch comfortably between one's dialect and standard usage. Two-hour lecture and laboratory.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy. GLD: Professional and Civic Engagement Leadership Experiences

LING 205 - Special Topics in Linguistics II (3 Credits)
Topics of a more focused nature that require no previous study in linguistics. May be repeated as content varies by title.

LING 240 - Language Conflict and Language Rights (3 Credits)
Examination of linguistic conflict and rights, as well as centrality of language rights to human rights and personal-cultural identity. Basic facts about language related to identity, culture, attitudes, dialects, bilingualism. Case studies (local, national, international) with particular attention to nationalism, language revitalization, language planning.
Cross-listed course: POLI 240
Carolina Core: VSR

LING 241 - Language and Popular Culture (3 Credits)
Linguistic anthropological study of forms of language through the lens of popular culture. Explore the ethnography of communication through play and performance, discursive and semiotic practices, and varieties of language invoked in popular cultural forms that provide resources for cultural reproduction and contestation.
Cross-listed course: ANTH 271

LING 242 - Language and Humor at the Intersections of Religion, Race, Ethnicity, and Gender (3 Credits)
Explores language and humor, looking at (i) the linguistic structure and psychology of humor, (ii) changing societal standards for humor, (iii) racial, ethnic, religious, and gender-based humor, and (iv) socio-political questions surrounding the use of these.

LING 243 - Korean Popular Culture and Language (3 Credits)
Introduction to linguistic and anthropological concepts through the lens of South Korean popular culture.

LING 273 - Cross-Cultural Communication (3 Credits)
This course introduces students to the fields of interactional sociolinguistics and linguistic anthropology. Students will learn how they approach the study of cross-cultural and intercultural forms of (mis)communication within the context of globally interconnected people, places, and systems of communication.
Cross-listed course: ANTH 273
Carolina Core: GSS

LING 300 - Introduction to Language Sciences (3 Credits)
Introduction to the linguistic component of human cognition. Properties of speech, the organization of language in the mind/brain, cross-linguistic universals, child language acquisition, and aspects of adult language processing.
Cross-listed course: ANTH 373, PSYC 470

LING 301 - The English Language (3 Credits)
Introduction to the field of linguistics with an emphasis on English. Covers the English sound system, word structure, and grammar. Explores history of English, American dialects, social registers, and style.
Cross-listed course: ENGL 389

LING 303 - Chinese Language and Society (3 Credits)
A comprehensive and up-to-date survey of Chinese language in a social context, teaching students not only the linguistic structure of modern standard Chinese but also how language and society mutually influence each other in history and today's digital age. Hands-on instruction to carry out linguistic research.
Prerequisites: C or better in CHIN 121.
LING 305 - Special Topics in Linguistics III (3 Credits)
Reading and research on selected topics in linguistics that may require previous study in linguistics or a related field.
Prerequisites: listed for each course offering. May be repeated as content varies by title.

LING 314 - Spanish Phonetics and Pronunciation (3 Credits)
Analysis of and practice in pronunciation, listening comprehension, and dialect recognition based on study of the speech sounds, combinations, patterns, and processes of Spanish phonetics and phonology.
Department permission required for transfer students.
Prerequisites: C+ or better in SPAN 302; placement at 300 level of Phase II placement exam.

Cross-listed course: SPAN 317
LING 316 - French Phonetics (3 Credits)
Analysis of and practice in pronunciation and listening comprehension.
Prerequisites: C or better in both FREN 209 and FREN 210, or equivalents, or a score of F-6 on the French language placement exam.

Cross-listed course: FREN 300
LING 340 - Language, Culture, and Society (3 Credits)
Language in its social setting. The relationship between linguistic categories and culture categories. Language and cognition.

Cross-listed course: ANTH 355
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LING 345 - Language in the USA (3 Credits)
Linguistic examination of the structure, history, and use of language varieties in the U.S., with a particular focus on regional and sociocultural variation and relevant sociolinguistic issues.

Cross-listed course: ENGL 370
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

LING 395 - Teaching English Abroad (3 Credits)
An intensive, hands-on introduction to principles and techniques of teaching English language learners, exposing students to norms of the field of Teaching English to Speakers of Other Languages (TESOL), working with non-native English speakers, and discovering TESOL opportunities worldwide.

Cross-listed course: FORL 472
LING 440 - Language in Society (3 Credits)
Patterns in language use as a reflection of social group memberships or the negotiation of interpersonal relationships; special attention to social dialects and stylistic difference in American English.
Cross-listed course: ENGL 455
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

LING 442 - African-American English (3 Credits)
Linguistic examination of the structure, history, and use of African-American English, as well as literary presentations, language attitudes, and issues relating to education and the acquisition of Standard English.
Cross-listed course: AFAM 442, ANTH 442, ENGL 457
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

LING 472 - Introduction to Technology in Language Education (3 Credits)
Acquaints students with principles and practices concerning the use of technology in foreign language teaching. Explores connections between second language acquisition and the implementation of Internet and multimedia technologies.
Prerequisites: FORL 511.

Cross-listed course: FORL 472
LING 474 - Bilingualism (3 Credits)
Bilingual language development, social and cultural aspects of bilingualism, the bilingual brain, bilingualism throughout the lifespan.

LING 502 - French Linguistics (3 Credits)
The structure, morphology, and syntax of modern French.

Cross-listed course: FREN 517
LING 503 - Introduction to German Linguistics (3 Credits)
Structural and descriptive linguistics applied to the German language.

Cross-listed course: GERM 515
LING 504 - Introduction to Spanish Linguistic (3 Credits)
Phonology, morphology, and syntax of modern Spanish.

LING 505 - Interdisciplinary Topics in Linguistics (3 Credits)
Topics selected by the instructor for specialized study. Course content varies and will be announced in the schedule of classes title. May be repeated with different title.

LING 512 - French Phonology (3 Credits)
The sound system and its functioning in the morphological system of French from the point of view of current phonological theory.

Cross-listed course: FREN 516
LING 514 - Contrastive English-Spanish Phonetics and Phonology (3 Credits)
Introduction to the study of phonetics and phonology and their application to the sounds and sound systems of English and Spanish. Includes transcription practice and discussion of relevance to teaching.

Cross-listed course: SPAN 517
LING 521 - Advanced English Grammar (3 Credits)
Practical survey of the syntactic structures of English; usage, social and regional variation emphasis on data.
Prerequisites: LING 421/ENGL 450 or LING 600/ENGL 680.
LING 527 - Introduction to Mathematical Methods in Linguistics (3 Credits)
Introduction to mathematical mechanisms that play a prominent role in the formalization of syntactic and semantic theories, showing how they are applied to an understanding of the working parts of human language. The topics covered include: set theory, logic, English as a formal language, and languages & grammars.

LING 530 - Language Change (3 Credits)
Major ways in which phonetics, phonology, syntax, morphology, and semantics change through language history; social factors which promote innovation.

LING 533 - Introduction to the Germanic Languages (3 Credits)
Introduction to historical Germanic linguistics including a survey of the Old Germanic languages (Old English, Old Frisian, Old Saxon, Old High German, Old Norse, Gothic); comparative phonology, morphology, and syntax, typology of modern Germanic languages and dialects; and common Germanic in its Indo-European context.

Cross-listed course: GERM 517

LING 540 - Topics in Language and Culture (3 Credits)
Introduction to sociolinguistic issues, focusing on a single language. Course content varies and will be announced by title. May be repeated twice as topics vary.

LING 541 - Language and Gender (3 Credits)
Approaches to gender and language emphasizing the social grounding of both; how language reflects sociocultural values and is a tool for constructing different types of social organization.

Cross-listed course: ANTH 555, WGST 555

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

LING 542 - Research in Language Conflict and Language Rights (3 Credits)
Research into the parameters governing linguistic conflicts and language rights issues, involving a close examination of the nexes of language and: individual and ethnic identity, culture, dialects, bilingualism. Examination of regional, national, and international case studies, with particular attention to nationalism, language revitalization, and language planning.

Cross-listed course: POLI 542

LING 543 - Discourse, Gender, and Politics of Emotion (3 Credits)
Anthropological approach to issues of discourse, gender, and emotion. Issues under consideration include the social control, force, and forms of emotional discourse and the relationship between emotion and culture from gender-oriented perspectives.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

LING 545 - Anthropological Approaches to Narrative and Performance (3 Credits)
The ways people from various cultures reflect on, reinforce, and construct their social realities through narrating, which will be considered as both artistic expression and social action.

Cross-listed course: ANTH 553

LING 546 - Japanese Language in Society (3 Credits)
Japanese language and communication in its socio-cultural context; emphasis on comparison with American English. Taught in English.

Cross-listed course: JAPA 500

LING 548 - German Sociolinguistics (3 Credits)
Introduction to the study of variation in Modern German. Traditional German dialectology and dialect geography, language and society, multiculturalism in the German-speaking countries, German in contact with other languages.

Cross-listed course: GERM 518

LING 554 - The Structure of Modern Spanish (3 Credits)
Description of the grammatical structures of Modern Spanish. Intensive study of the theory and practice of word formation and sentence structure of Spanish.

Cross-listed course: SPAN 516

LING 556 - Language and Globalization (3 Credits)
Anthropological approach to issues of language and globalization. Linguistic consequences of globalization under consideration include communicative patterns, linguistic change, and language and political economy.

Cross-listed course: ANTH 556

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

LING 557 - Philosophy of Language (3 Credits)
An examination of concepts and problems such as meaning, reference, analyticity, definition, and the relation between logic and philosophy.

Prerequisites: PHIL 202.

Cross-listed course: PHIL 517

LING 567 - Psychology of Language (3 Credits)
Theories of speech perception, linguistic theories of syntax and semantics, the brain mechanisms underlying language, the development of language in children, and the role of language in thought.

Cross-listed course: PSYC 506

LING 570 - Introduction to Language Development (3 Credits)
The language acquisition process in normal children, including the development of semantics, morphology, syntax, phonology, and pragmatics; American dialects and bilingualism.

Prerequisites: COMD 501 and COMD 507.

Cross-listed course: COMD 570

LING 600 - Survey of Linguistics (3 Credits)
Survey of core areas of linguistics and extensions to closely related disciplines. Introduction to the linguistic component of human cognition. Formal description and analysis of the general properties of speech and language, the organization of language in the mind/brain, and cross-linguistic typology and universals.

Cross-listed course: ANTH 600, ENGL 680

LING 627 - Introduction to Semantics and Pragmatics (3 Credits)
An introduction to the study of linguistic meaning, including the following topics: meaning, reference, and truth; the connections among language, thought, and reality; word meaning and sentence meaning; possible worlds and modality; thematic roles; meaning and context; presupposition and implicature; speech acts; formal semantics; and cognitive semantics.

Prerequisites: LING 300, LING 301, or LING 600.

LING 650 - Introduction to Morphology (3 Credits)
Foundations of generative morphology, focusing on morphological data collection and analysis; the structure of the lexicon; and the interfaces between morphology and phonology, semantics, and syntax.

Prerequisites: LING 300, LING 301, or LING 600.
Management (MGMT)

MGMT 250 - Professional Communication (3 Credits)
Theory and practice of oral and written communication skills required in the contemporary business environment.
Prerequisites: ENGL 101, ENGL 102.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MGMT 371 - Principles of Management (3 Credits)
A comprehensive survey of the basic principles of management applicable to all forms of business. The course provides the student with a basis for thinking about complex business situations in the framework of analysis of the management process.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MGMT 374 - Strategic Human Resource Management (3 Credits)
A survey of the major approaches used in managing human resources. Covers selection, compensation, legal compliance, discipline, organizational restructuring, TQM, motivation, labor relations, and performance management.
Prerequisites: MGMT 371.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MGMT 376 - Employee Engagement (3 Credits)
Introduction to human behavior in organizations. Emphasis on factors that contribute to the effectiveness of individuals and groups in organizations.
Prerequisites: MGMT 371.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MGMT 401 - Negotiation and Conflict in the Workplace (3 Credits)
This course is designed to improve students' knowledge and skills in the areas of workplace conflict resolution and negotiations.
Prerequisites: MGMT 371.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MGMT 402 - Managing Teams in the Workplace (3 Credits)
Team dynamics in organizational settings; basic concepts of interpersonal behavior, how to facilitate effective teamwork and create, motivate, and participate in effective teams based on concepts in team design and team process.
Prerequisites: MGMT 371.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MGMT 403 - Leadership in Organizations (3 Credits)
Reviews research and practice in organizational leadership; provides students with self-assessment, developmental exercises, and case studies to prepare students for leadership roles.
Prerequisites: MGMT 371.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MGMT 404 - Compensation and Retention (3 Credits)
An examination of how organizations use pay and other types of rewards (both intrinsic and extrinsic) to affect employee motivation and behavior.
Prerequisites: MGMT 374.

MGMT 405 - Talent Management (3 Credits)
An examination of how organizations can improve workforce quality by making effective use of recruiting and selection processes. Attention is also given to the training and development of new hires and to legal issues that surround the staffing process.
Prerequisites: MGMT 374.

MGMT 406 - International Human Resource Management (3 Credits)
This course examines how human resources are managed within a global context. It examines how human resources are managed within global firms as well as across different cultural settings.
Prerequisites: MGMT 374.

Cross-listed course: IBUS 406
Graduation with Leadership Distinction: GLD: Global Learning

MGMT 407 - Corporate Social Responsibility and Stakeholder Management (3 Credits)
This course examines the role of corporate social responsibility in managing organizations. Attention is given to the role of stakeholder management and ethics in organizational decision-making.
Prerequisites: MGMT 371.

MGMT 408 - Diversity and Inclusion (3 Credits)
An introduction to diversity and inclusion in the workplace. Topics include the nature of workforce diversity and inclusion, practices that enhance diversity, inclusion, and effectiveness, and approaches for building inclusion.
Prerequisites: MGMT 371.

MGMT 425 - Analytics for the Human Resources Professional (3 Credits)
Metrics and measurements of HR concepts; processes through which knowledge is gained; tools and techniques for gathering and analyzing data; and critical thinking centered on whether findings are likely to be reproducible and trustworthy.
Prerequisites: C or better in both MGMT 371 and MGSC 291.

MGMT 431 - Intercultural Competencies for Working in International Teams (3 Credits)
How to recruit, lead, and collaborate more effectively in international teams by examining differences related to culture, work-values, economic climate, and career progression.
Prerequisites: IBUS 310.

Cross-listed course: IBUS 431

MGMT 472 - Entrepreneurship and Small Business (3 Credits)
This course is an introduction to the ownership and management of small firms, emphasizing their role in the U.S. economy, their particular demands on owners, and the effects of newness and smallness on their managers’ decisions.
Prerequisites: MGMT 371.
MGMT 473 - Developing and Launching New Ventures (3 Credits)
Analysis of proposed business opportunities; planning and establishing a business organization to exploit an opportunity; management of small business.
Prerequisites: MGMT 472.

Experiential Learning: Experiential Learning Opportunity

MGMT 474 - Executing Strategy in New Ventures (3 Credits)
Influencing the performance of new ventures through the strategies, metrics, and resources needed for their development, monitoring, and funding.
Prerequisites: MGMT 472 and MGMT 473.

Experiential Learning: Experiential Learning Opportunity

MGMT 476 - Collective Bargaining (3 Credits)
Practice and structure of collective bargaining, and administration of collective agreements, law of union-management relations, labor history, and bargaining theory and practice.
Prerequisites: MGMT 371 and junior standing.

MGMT 477 - Strategic Management (3 Credits)
A study of the formulation and application of functionally integrated business policy by top management. Emphasis is on decision making in the face of changing conditions.
Prerequisites: MKTG 350, FINA 363, MGMT 371.

MGMT 479 - Advanced Issues in Entrepreneurship (3 Credits)
Intensive examination of situations currently faced by entrepreneurs and their firms and of practicable recommendations for action. Customarily involves consulting projects for local firms.
Prerequisites: MGMT 472 and MGMT 473.

MGMT 490 - Special Topics in Management (1-3 Credits)
Current topics, issues and practices in various areas of Management. Course may be repeated up to three (3) times as content varies by title.
Experiential Learning: Experiential Learning Opportunity

MGMT 499 - Business Internship in Management (3-6 Credits)
Supervised work experience as approved by department. Generally three hours of academic credit, but upon special request of supervising professor and approval of appropriate area director, an internship may carry a maximum of six hours credit, however, only three hours may apply towards major credit. Pass-Fail only. Internship contract required.
Prerequisites: Completion of DMSB core curriculum except MGMT 478, plus at least one additional course in the student’s major field of study. Cumulative GPA of 2.75 or consent of instructor.

Experiential Learning: Experiential Learning Opportunity

MGSC 290 - Computer Information Systems in Business (3 Credits)
An introduction to the effective use of information systems tools in day-to-day business communications, analysis, and decision making.

MGSC 291 - Applied Statistics for Business (3 Credits)
Descriptive statistics, topics in probability, statistical inference and modeling. Emphasis on the collection, summarization, analysis, and reporting of numerical findings relevant to business decisions and economic analysis.
Prerequisites: STAT 206.

MGSC 298 - Program Design and Development (3 Credits)
Fundamental algorithms and processes used in business information systems. Development and representation of programming logic. Introduction to implementation using a high-level programming language.
Prerequisites: CSCE 101 or MGSC 290 or ITEC 264.

Cross-listed course: CSCE 204, ITEC 204

MGSC 390 - Business Information Systems (3 Credits)
Introduction to the planning, development, and management of Business Information Systems (BIS) and related information technologies in organizations. Topics include hardware, software, database, telecommunications, and the Internet.
Prerequisites: MGSC 290 or equivalent.

MGSC 391 - Applied Statistical Modeling (3 Credits)
Multiple regression, ANOVA, forecasting, quality control, and nonparametric techniques. Emphasis is on the application of these statistical models in business decision making.
Prerequisites: MGSC 291.

MGSC 392 - Quantitative Analysis for Business Decision Making (3 Credits)
Quantitative approaches for managerial problem solving and decision making. Formulation, solution, analysis, and interpretation of spreadsheet-based models for common business decision-making situations. Optimization, simulation, decision analysis.
Prerequisites: MGSC 291.

MGSC 393 - Advanced Management Science (3 Credits)
Advanced topics in management science; stochastic models, nonlinear programming, dynamic programming, Markov processes, and multiple criteria decision models.
Prerequisites: MGSC 392.

MGSC 394 - Data Analytics for Business (3 Credits)
Extracting, transforming, and analyzing data to support business intelligence and decision making. Business analytics, big data technologies, database and enterprise architecture, and information system project management and governance.
Prerequisites: MGSC 290, MGSC 291.

MGSC 395 - Operations Management (3 Credits)
Management of activities/resources that result in the production of competitive goods and services in the global market place. Integrates cross-functional concepts from marketing, finance, and management.
Prerequisites: ACCT 222, ECON 224 and 3 hours of Statistics.

MGSC 398 - Applied Problem Solving and Programming (3 Credits)
Systematic problem definition, solution formulation, and computer implementation for business and related areas. Internet and database applications. Programming exercises in a high-level programming language.
Prerequisites: CSCE 204 or MGSC 298.

Cross-listed course: CSCE 304
MGSC 405 - International Information Systems (3 Credits)
An examination of the challenges and opportunities associated with the
development, management, and use of global information systems.
Cross-listed course: IBUS 405
Graduation with Leadership Distinction: GLD: Global Learning

MGSC 450 - Special Topics in Management Science (1-3 Credits)
Current topics, issues and practices in various areas of Management
Science. Course may be repeated up to three (3) times as content varies
by title.
Prerequisites: C or better in MGSC 395.

MGSC 485 - Business Process Management (3 Credits)
Course covers skills necessary to pursue sourcing-related careers in
manufacturing, services, retailing, and government agencies, including
discussion of cutting-edge negotiation and global sourcing strategies
pursued in exemplar firms.
Prerequisites: MGSC 395.

MGSC 486 - Service Operations Management (3 Credits)
Course focuses on the management of service operations, with
considerable attention paid to cutting-edge quantitative techniques.
Topics covered include facility location, waiting line management, and
revenue management, among others.
Prerequisites: MGSC 395.

MGSC 487 - Global Sourcing Strategies and Application (3 Credits)
Course covers skills necessary to pursue sourcing-related careers in
manufacturing, services, retailing, and government agencies, including
discussion of cutting-edge negotiation and global sourcing strategies
pursued in exemplar firms.
Prerequisites: MGSC 395.

Graduation with Leadership Distinction: GLD: Global Learning

MGSC 488 - Innovation and Design (3 Credits)
Creation and launch of viable businesses using innovation tournaments.
Development of problem solving and design skills. Application to real
innovation and entrepreneurial hurdles.
Prerequisites: C or better in MGSC 395.

MGSC 490 - Information Systems Analysis and Design (3 Credits)
Analysis and design of business information systems using modern
tools, techniques, and methodologies.
Prerequisites: MGSC 394 or CSCE 145, and MGSC 390.

Graduation with Leadership Distinction: GLD: Research

MGSC 491 - Supply Chain Management (3 Credits)
This course examines principles governing an integrated supply chain
that includes the cross-functional processes of sourcing, inventory
management, and logistics. Key tools for managing supply chains will
also be discussed.
Prerequisites: C or better in MGSC 395.

MGSC 492 - Logistics, Transportation and Distribution (3 Credits)
This course is designed to provide a body of knowledge, technical
know-how, and standards for those in the logistics, transportation and
distribution industries.

MGSC 494 - Business Telecommunications (3 Credits)
Identifies and explains the principal technologies, concepts, and
techniques currently applied in the business data communications field.
Current and future hardware and software technologies, networking,
protocols, and the OSI Model are covered.
Prerequisites: MGSC 390.

MGSC 495 - Supply Chain Planning and Execution (4 Credits)
Managing the flow of materials from suppliers to customers; supply
chain concepts, terminology, and relationships; processes used to
develop operations plans.
Prerequisites: MGSC 395.

MGSC 497 - GSCOM Capstone Project (4 Credits)
Course entails executing projects that apply GSCOM concepts to solve
significant operational or supply-chain problems at simulated or actual
firms. Teams write recommendation reports and oversee sourcing
strategies pursued in exemplar firms.
Prerequisites: MGSC 395, MGSC 485, MGSC 486, and MGSC 487.

Graduation with Leadership Distinction: GLD: Community Service, GLD:
Research
Experiential Learning: Experiential Learning Opportunity

MGSC 498 - Project Management for Business (3 Credits)
An introduction to the qualitative and quantitative approaches to the
management of projects as well as a review MS Project software.

MGSC 520 - Forecasting and Time Series (3 Credits)
Time series analysis and forecasting using the multiple regression and
Box-Jenkins approaches.
Prerequisites: MGSC 292 or STAT 516.

Cross-listed course: STAT 520

MGSC 525 - Statistical Quality Control (3 Credits)
Statistical procedures for process control including CUSUM and
Shewhart Control Charts, and lot acceptance sampling.
Prerequisites: MGSC 292 or STAT 509 or STAT 515.

Cross-listed course: STAT 525

MGSC 590 - E-Commerce Concepts and Research Topics (3 Credits)
Social, technological, commercial, marketing, and political implications of
current and impending tends in E-Commerce.
Prerequisites: MGSC 390.

MGSC 591 - Simulation of Business Systems (3 Credits)
Theory and design of business simulation experiments, development and
use of computer simulation models, and analysis of data generated by
computer simulation experiments.
Prerequisites: MGSC 291.

MGSC 592 - Analysis of Decisions Under Uncertainty (3 Credits)
Theory and practice of making decisions in an environment of
uncertainty; development of skill in the assessment of preferences and
probability distributions.
Prerequisites: MGSC 291.

MGSC 594 - Strategic Management of Information Systems (3 Credits)
Strategic management and use of information systems in organizations.
Cross-listed course: CSCE 594

MGSC 596 - Database Management for Business (3 Credits)
Technology overview and principles of database design for business
applications. Enterprise database administration and planning. Design
exercises and projects using the latest database management systems
software.
MGSC 690 - Quantitative Foundations for Business and Economics I (3 Credits)
Calculus and classical optimization methods applied to problems in business and economic analysis; matrices, derivatives, and integrals in the analysis of both univariate and multivariate business and economic models.

MGSC 691 - Quantitative Foundations for Business and Economics II (3 Credits)
Statistics and probability theory applied to problems of business and economic analysis.
Prerequisites: MGSC 690 or ECON 690.

MGSC 692 - Quantitative Methods I (3 Credits)
Probability and statistics necessary for graduate study in economics and business administration; estimation, hypothesis testing, regression, analysis of variance, and nonparametric methods.

MGSC 694 - Quantitative Methods II (3 Credits)
Decision models useful in business and economics; linear programming, sensitivity analysis and duality, network models, integer programming, dynamic programming, inventory and queuing, and simulation.
Prerequisites: MGSC 692 or equivalent.

Marine Science (MSCI)

MSCI 101 - The Ocean Environment (4 Credits)
Origin and evolution of the oceans, plate tectonics, ocean circulation, waves and tides, seawater and sediment composition, and influences on biology. Three lecture and three laboratory hours per week. Scheduled field trips required.
Carolina Core: SCI

MSCI 102 - The Living Ocean (4 Credits)
Origin, evolution, and diversity of marine life, biological production, trophic dynamics, nutrient cycles, marine resources, and environmental concerns. Three lecture and three laboratory hours per week. Scheduled field trips required.
Carolina Core: SCI

MSCI 210 - Oceans and Society (3 Credits)
A nontechnical introduction to human interactions with the marine environment: marine organisms, marine systems, and the physical and chemical characteristics of oceans and estuaries. Not available for marine science major credit.
Carolina Core: SCI

MSCI 210L - Oceans and Society Laboratory (1 Credit)
Experiments and exercises which illustrate how specific components of marine environments are structured, function, and can be measured. Two laboratory hours per week. Not available for marine science major credit. Attendance on designated field trips may be required.
Prerequisite or Corequisite: MSCI 210.
Carolina Core: SCI

MSCI 215 - Coastal Environments of the Southeastern US (3 Credits)
Coastal zones of South Carolina and neighboring states, including geologic history, geomorphology, stratigraphy, hydrogeology, shoreline processes, environmental issues, and effect of man. Three lecture hours each week plus optional field trips. Not available for marine science major credit.
Carolina Core: SCI

MSCI 215L - Coastal Environments of the Southeastern U.S. (Laboratory) (1 Credit)
Exercises examining coastal ecology, geomorphology, hydrogeology, shoreline processes, environmental issues, and human impact. Two laboratory hours per week. Scheduled field trips required. Not available for marine science major credit.
Prerequisite or Corequisite: MSCI 215.

Cross-listed course: GEOL 215L
Carolina Core: SCI

MSCI 305 - Ocean Data Analysis (3 Credits)
Instrumentation, oceanographic time series, spatial and directional data sets, and basic parametric modeling.
Prerequisites: MSCI 101 and MATH 141.

Graduation with Leadership Distinction: GLD: Research

MSCI 311 - Biology of Marine Organisms (4 Credits)
Biological concepts emphasizing adaptation to marine environments. Laboratory experiments emphasize principles and techniques of marine biological study. Three lecture and three laboratory hours per week. Scheduled field trips are required.
Prerequisites: MSCI 102 or BIOL 101.

MSCI 312 - Physical and Chemical Oceanography (4 Credits)
Properties of seawater, mass balances, biogeochemical cycles, circulation, mixing, waves and tides, continental shelf processes, estuarine dynamics. Three lecture and three laboratory hours per week. Scheduled field trips are required.
Prerequisites: MSCI 101, MSCI 102, MATH 142, CHEM 112, PHYS 201 or PHYS 211.

MSCI 313 - The Chemistry of the Sea (4 Credits)
Biogeochemical cycling, carbonate chemistry, climate change, hydrothermal vents, stable isotopes, trace metals, radioactive tracers, mass balance, and properties of sea water. Three lecture and three laboratory hours per week.
Prerequisites: MSCI 101, CHEM 111, MATH 141.
Prerequisite or Corequisite: CHEM 112.

MSCI 314 - Physical Oceanography (4 Credits)
Properties of seawater, mass and momentum balances, circulation, mixing, waves and other processes in the marine environment.
Prerequisites: MSCI 101, MATH 141 and PHYS 201 or PHYS 211.

MSCI 335 - Processes of Global Environmental Change (4 Credits)
The science of global change, its relation to the hydrosphere, atmosphere, lithosphere, and biosphere. Global system science, biogeochemical cycles, paleoclimatology, glaciation, and eustacy.
Cross-listed course: GEOL 335

MSCI 375 - The Deep Sea (3 Credits)
The Deep Sea is an interdisciplinary, scientific survey of the geology, biology, chemistry, and physical setting of the deep-sea (more than 1000 m depth).

MSCI 390 - Policy and Marine Science (3 Credits)
Analysis of past and current issues in global and national marine policy. Relationship between science and policymakers.

MSCI 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research
MSCI 450 - Principles of Biological Oceanography (3 Credits)
Principles and methods of measuring production in the sea. Emphasis on the ocean's role in the global carbon budget. Three lecture hours per week. Scheduled field trips are required.
Prerequisites: MSCI 311, BIOL 301.

Cross-listed course: BIOL 450

MSCI 460 - Field and Laboratory Investigations in Marine Science (4 Credits)
Intensive inquiry-based investigations combining oceanographic field sampling with laboratory measurements of collected samples using modern analytical instrumentation, and with analysis and integration of data into a final research report. Course conducted in residence at a marine field site.
Prerequisites: MSCI 311, MSCI 313 and MSCI 314.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

MSCI 495 - Internship in Marine Science (0-6 Credits)
Internship experience that offers practical field or laboratory experience in oceanography and/or related marine sciences. Course content varies and will be announced by title in schedule of courses. Usually conducted off campus and student must be able to access internship on their own.
Prerequisites: C or better in MSCI 311, MSCI 313 and MSCI 314.

MSCI 496 - Undergraduate Research (3 Credits)
Student research on problems of fundamental significance in collaboration with faculty mentors. Emphasis on critical thinking, problem solving, proposal development, scientific writing, and professional presentation. Nine hours of laboratory, field, or library work per week.
Graduation with Leadership Distinction: GLD: Research

MSCI 497 - Undergraduate Research (3 Credits)
Student research on problems of fundamental significance in collaboration with faculty mentors. Emphasis on critical thinking, problem solving, proposal development, scientific writing, and professional presentation. Nine hours of laboratory, field, or library work per week.
Graduation with Leadership Distinction: GLD: Research

MSCI 498 - Undergraduate Research (3 Credits)
Student research on problems of fundamental significance in collaboration with faculty mentors. Emphasis on critical thinking, problem solving, proposal development, scientific writing, and professional presentation. Nine hours of laboratory, field, or library work per week.
Graduation with Leadership Distinction: GLD: Research

MSCI 499 - Undergraduate Research (3 Credits)
Student research on problems of fundamental significance in collaboration with faculty mentors. Emphasis on critical thinking, problem solving, proposal development, scientific writing, and professional presentation. Nine hours of laboratory, field, or library work per week.
Graduation with Leadership Distinction: GLD: Research

MSCI 501 - Principles of Geomorphology (3 Credits)
The process of earth denudation with emphasis on chemistry of weathering, stream and erosion hydraulics, quantitative analysis of land form evolution.
Prerequisites: GEOL 101 and GEOL 102.

Cross-listed course: GEOL 501

MSCI 502 - Principles of Coastal Geomorphology (4 Credits)
Geological and physical controls on the morphology, development, and stability of coastlines. Analysis of waves and erosional processes, and coastal zone morphodynamics. Several required field trips.
Prerequisite or Corequisite: MATH 122 or MATH 141.

Cross-listed course: GEOL 502

MSCI 503 - Environmental Microbiology (3 Credits)
An overview of the microbial world including a survey of the distribution, functioning, and diversity of microorganisms in natural systems. Discusses the crucial roles that microorganisms play in ecosystem function, biogeochemical cycles, and environmental quality.
Prerequisites: MSCI 102 or BIOL 102, CHEM 112.

Cross-listed course: BIOL 502

MSCI 505 - Senior Seminar (1 Credit)

MSCI 509 - MATLAB-Based Data Analysis in Ocean Sciences (3 Credits)
MATLAB-based course in processing, analysis, and visualization of large oceanographic data sets. Includes scalar and vector time series measured at fixed locations as well as shipboard surveys of oceanographic characteristics varying both in 3-D and in time. Methods and techniques are relevant to other geoscience disciplines.
Prerequisites: MATH 141.

MSCI 510 - Invertebrate Zoology (4 Credits)
Phylogenetic and comparative aspects of anatomy, physiology, reproduction, and embryology of the invertebrates. Three lecture and one three-hour laboratory period per week.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: BIOL 510

Graduation with Leadership Distinction: GLD: Research

MSCI 511 - Advanced Paleontology (3 Credits)
Systematic, ecologic, biogeographic, and evolutionary aspects of paleontology. Lectures, practical exercises, occasional field trips.
Prerequisites: GEOL 311.

Cross-listed course: GEOL 511

MSCI 515 - Marine Micropaleontology (4 Credits)
Marine microfossils; distribution, ecology, paleoecology, and biostratigraphy; use of microfossils in marine sediments to study oceanographic history. Three lectures and two laboratory hours per week.
Cross-listed course: GEOL 515

MSCI 521 - Introduction to Geochemistry (3 Credits)
Investigation of low temperature chemical reactions controlling the geochemistry of the earth's surface. Emphasis on CO2, carbonates, oxidation reduction, thermodynamics, isotopes, biogeochemistry.
Cross-listed course: GEOL 521

MSCI 524 - Environmental Radioisotope Geochemistry (3 Credits)
Introduction to radioactivity and the use of radionuclides to study environmental processes, including age-dating and biogeochemical cycling in aquatic systems. Two lectures per week.
Prerequisites: CHEM 111, CHEM 112, MATH 141.
MSCI 525 - Marine Plants (4 Credits)
Diversity, distribution, physiology, ecology, evolution, and economic
importance of marine algal, seagrass, and mangrove communities. Three
lecture and three laboratory hours per week. Scheduled field trips are
required.
Prerequisites: BIOL 301 or MSCI 311.
Cross-listed course: BIOL 525

MSCI 535 - Fishery Management (3 Credits)
Management and conservation of aquatic and marine resources, with
emphasis on fisheries. Data procurement and analysis; commercial and
recreational fisheries; sociological, political, legal, and environmental
factors that affect fishery management; and fish biodiversity.
Prerequisites: BIOL 301.
Cross-listed course: BIOL 535

MSCI 536 - Ichthyology (4 Credits)
Phylogeny, morphology, behavior, and ecology of fishes. Three lecture and
3 laboratory hours plus three field trips to be arranged.
Prerequisites: BIOL 301 or MSCI 311.
Cross-listed course: BIOL 536

Graduation with Leadership Distinction: GLD: Research

MSCI 537 - Aquaculture (3 Credits)
Introduction to the practical and scientific aspects of the commercial
culture of freshwater and marine organisms. Three lecture hours per
week. One all-day field trip required.
Prerequisites: BIOL 301 or MSCI 311.

MSCI 538 - Behavior of Marine Organisms (4 Credits)
The identification of behavioral adaptations of estuarine and marine
organisms: their ecology, physiology, development, and evolutionary
history; field observations.
Prerequisites: BIOL 101 and BIOL 102 or MSCI 311.
Cross-listed course: BIOL 538

Graduation with Leadership Distinction: GLD: Research

MSCI 545 - Geological Oceanography (3 Credits)
A comprehensive study of the origin and development of the major
structural features of the ocean basins and the continental margins.
Discussion of the techniques used in obtaining geologic data and the
interpretation of sedimentary processes, vulcanism, and the stratigraphy
of the ocean basins.
Cross-listed course: GEOL 545

MSCI 550 - Sedimentary Simulations and Sequence Stratigraphy (4
Credits)
Problems of sequence stratigraphy resolved with graphic computer
simulations. Sedimentary fill of basins by carbonates and/or clastics
tracked as a function of rate of sediment accumulation, tectonic behavior
and sea level. Includes laboratory.
Prerequisites: GEOL 301.
Cross-listed course: GEOL 550

MSCI 552 - Population Genetics (3 Credits)
An introduction to the principles of population genetics, with emphasis
on the origin, maintenance, and significance of genetic variation in
natural populations.
Prerequisites: BIOL 301, MSCI 311, and BIOL 303.
Cross-listed course: BIOL 552

Graduation with Leadership Distinction: GLD: Research

MSCI 553 - Marine Sediments (3 Credits)
Marine sedimentary environments; physical/biological factors which
control the formation and distribution of modern marine sediments.
Prerequisites: GEOL 516.
Cross-listed course: GEOL 553

MSCI 555 - Conservation and Health in Marine Systems (3 Credits)
Introduces the field of conservation and explores the intersection
between conservation and environmental health with a particular focus
on coastal and marine case studies.
MSCI 557 - Coastal Processes (3 Credits)
Physical and geological processes controlling the formation and
evolution of beach, barrier, and nearshore environments, including
discussion of coastal management issues.
Cross-listed course: GEOL 557

MSCI 556 - Ecosystem Analysis (3 Credits)
The formulation and simulation of compartment models of marine
and terrestrial ecosystems with complex nutrient cycling, food chains,
and energy flow. Analog and digital simulation techniques. Ecosystem
stability and sensitivity. Organization, structure, and diversity of an
ecosystem.

MSCI 558 - Introduction to Micrometeorology (3 Credits)
Small-scale processes in the atmospheric boundary layers, including
energy budget, radiation, soil heat transfer, humidity, viscous flows,
turbulence, momentum and heat exchanges, evaporation, and marine
atmospheric boundary layer.
Prerequisites: PHYS 201 and MATH 141.
Cross-listed course: GEOL 558

MSCI 574 - Marine Conservation Biology (3 Credits)
Exploration of how human activities affect marine natural populations,
species, communities and ecosystems, including threats to biodiversity;
approaches to marine conservation; and ecological and evolutionary
responses to anthropogenic disturbance.
Prerequisites: BIOL 301.
Cross-listed course: BIOL 574

MSCI 575 - Marine Ecology (3 Credits)
Structure, dynamics, and interactions between populations and
communities in marine ecosystems. Attendance at designated
departmental seminars is required. Three lecture hours per week.
Prerequisites: CHEM 111 and BIOL 301 or MSCI 311.
Cross-listed course: BIOL 575

MSCI 575L - Marine Ecology Laboratory (1 Credit)
Laboratory and field exercises in coastal environments. Three hours per
week plus field trips.
Prerequisite or Corequisite: MSCI 575.
Cross-listed course: BIOL 575L

MSCI 576 - Marine Fisheries Ecology (3 Credits)
Interdisciplinary examination of the distribution, reproduction, survival,
and historical variation of the principal commercial marine fisheries.
Prerequisites: BIOL 301.
Cross-listed course: BIOL 576
MSCI 577 - Ecology of Coral Reefs (4 Credits)
Structure, productivity, and biodiversity of coral reefs, emphasizing their sensitivity, stability, and sustainability. Taught as an extended field experience with daily lectures and guided research activities.
Prerequisites: BIOL 301 or MSCI 311.

Cross-listed course: BIOL 577

MSCI 578 - Physiological and Pollution Ecology of Marine Organisms (3 Credits)
Functional adaptation of marine plants and animals to ecological stresses including pollution. Three lecture hours per week.
Prerequisites: MSCI 311 or equivalent.

MSCI 579 - Air-Sea Interaction (3 Credits)
The physical mechanism responsible for interaction between the ocean and the atmosphere and the influence of air-sea interaction on atmospheric and oceanic dynamics and thermodynamics on a wide variety of spatial/temporal scales.
Cross-listed course: GEOL 579

MSCI 580 - Satellite Oceanography (3 Credits)
This course provides knowledge of various techniques used in satellite remote sensing of the oceans. Key skills will be developed in satellite data processing, image analysis, and hands-on research.
Cross-listed course: GEOL 580

MSCI 581 - Estuarine Oceanography (3 Credits)
Estuarine kinematics and dynamics; classification of estuaries; estuarine circulation and mixing. Scheduled field trips are required.
Prerequisites: MSCI 314.

Cross-listed course: GEOL 581

MSCI 582 - Marine Hydrodynamics (3 Credits)
Basic principles of fluid statics and dynamics. Conservation of mass, momentum, and energy; viscosity, vorticity, and boundary layers with examples from the marine environment. Applications to and analysis of ocean currents and waves.
Prerequisites: differential equations, PHYS 201 or PHYS 211.

Cross-listed course: GEOL 582

MSCI 583 - Geology and Geochemistry of Salt Marshes (3 Credits)
Geological and geochemical processes in salt marshes. Methods of geological research in marshes including instrumental techniques, sampling design, and data analysis. Two lectures per week plus four weekends of project oriented fieldwork and/or equivalent lab work. Scheduled field trips are required.
Cross-listed course: GEOL 583

MSCI 585 - Coastal Tropical Oceanography (4 Credits)
Descriptive oceanography of mangrove and coral reef coasts with emphasis on physical processes. Taught as an extended field experience with daily lectures and guided research activities.
Prerequisites: MSCI 312.

MSCI 590 - Beach-Dune Interactions (3 Credits)
Influence of wind on coastal systems, with emphasis on nearshore currents, sediment transport and bedforms, aeolian transport, and dunes. Minimum Junior standing required.
Cross-listed course: GEOG 590

MSCI 599 - Topics in Marine Science (1-3 Credits)
Current developments in marine science selected to meet faculty and student interests. Course content varies and will be announced by title in schedule of courses.

MSCI 624 - Aquatic Chemistry (3 Credits)
Study of the chemical reactions and processes affecting the distribution of chemical species in natural systems. Three lecture hours per week.
Prerequisite or Corequisite: CHEM 321, MATH 142.

Cross-listed course: CHEM 624

MSCI 627 - Marine Phytoplankton (3 Credits)
Examines the physiology and ecology of phytoplankton, including environmental controls on community composition, primary productivity, and detection and characterization of water quality (eutrophication) and harmful algal blooms.
Prerequisites: MSCI 102 or MSCI 450 or BIOL 450.

Cross-listed course: BIOL 627

Marketing (MKTG)

MKTG 350 - Principles of Marketing (3 Credits)
Principles and concepts underlying marketing functions, including the conception, pricing, promotion, and distribution of products and services and the role of marketing in society.
Prerequisites: ECON 221/ECON 222, ACCT 225/ACCT 226 for B.A. major sections; ECON 224, ACCT 222 for non-B.A. major sections.

MKTG 351 - Consumer Behavior (3 Credits)
The consumer decision process, with emphasis on consumer decision making, satisfaction/dissatisfaction factors, perception, learning, group influences, and marketing strategy implications.
Prerequisites: MKTG 350.

MKTG 352 - Principles of Marketing Research (3 Credits)
Investigates the theory and practice of marketing research with emphasis on the problem-oriented nature of marketing research and how research activities are implemented by marketing researchers and used by managers.
Prerequisites: MKTG 350, MGSC 291.

Graduation with Leadership Distinction: GLD: Research

MKTG 445 - Sales Strategy (3 Credits)
Understand the fundamentals of the sales process and how to ensure client engagement. Learn follow-up skills that will help you in every walk of life. Learn the fundamentals of effective business communication (voicemail, email, and hand-written).
Prerequisites: MKTG 350.

MKTG 446 - Sales Automation and Customer Management (3 Credits)
The context, tools and conceptual understanding of the technology-related and managerial expectations of an entry level sales representative.
Prerequisites: MKTG 350.

MKTG 447 - Pricing Strategy and Analytics (3 Credits)
An in-depth understanding of the fundamentals of pricing strategy formulation and implementation.
Prerequisites: MKTG 350.

MKTG 448 - Data Science for Business Decision-Making (3 Credits)
The conceptual, applied, and managerial elements of advanced data science methods for business decision-making.
Prerequisites: B+ or better in MGSC 291.
Mathematics (MATH)

MATH 111 - Basic College Mathematics (3 Credits)
Basic college algebra; linear and quadratic equations, inequalities, functions and graphs of functions, exponential and logarithm functions, systems of equations.
Prerequisites: placement through Algebra version of the Mathematics Placement Test.

MATH 111I - Intensive Basic College Mathematics (4 Credits)
An intensive treatment of the topics covered in MATH 111.
Prerequisites: placement through Algebra version of the Mathematics Placement Test.

MATH 112 - Trigonometry (2 Credits)
Topics in trigonometry specifically needed for MATH 141, MATH 142, MATH 241. Circular functions, analytic trigonometry, applications of trigonometry. Credit may not be received for both MATH 112 and MATH 115.
Prerequisites: C or better in MATH 111 or MATH 111I, or placement through Algebra version of the Mathematics Placement Test.

MATH 115 - Precalculus Mathematics (4 Credits)
Topics in algebra and trigonometry specifically needed for MATH 141, MATH 142, MATH 241. Subsets of the real line, absolute value; polynomial, rational, inverse, logarithmic, exponential functions; circular functions; analytic trigonometry.
Prerequisites: C or better in MATH 111 or MATH 111I, or placement through Precalculus version of the Mathematics Placement Test.

MATH 116 - Brief Precalculus Mathematics (2 Credits)
Essential algebra and trigonometry topics for Calculus, including working with equations that involve polynomials, rational functions, exponential and logarithmic functions, and trigonometric and inverse trigonometric functions. Intended for students with prior experience in Precalculus, but not ready for MATH 141.
Prerequisites: C or better in MATH 112 or MATH 115, or placement through Precalculus version of the Mathematics Placement Test.

MATH 122 - Calculus for Business Administration and Social Sciences (3 Credits)
Derivatives and integrals of elementary algebraic, exponential, and logarithmic functions. Maxima, minima, rate of change, motion, work, area under a curve, and volume.
Prerequisites: C or better in MATH 111, MATH 111I or MATH 115 or placement through Algebra version of the Mathematics Placement Test.

Carolina Core: ARP

MATH 141 - Calculus I (4 Credits)
Functions, limits, derivatives, introduction to integrals, the Fundamental Theorem of Calculus, applications of derivatives and integrals. Four classroom hours and one laboratory hour per week.
Prerequisites: C or better in MATH 112, MATH 115, or MATH 116, or placement through Precalculus version of the Mathematics Placement Test.

Carolina Core: ARP

MATH 142 - Calculus II (4 Credits)
Methods of integration, sequences and series, approximations. Four classroom hours and one laboratory hour per week.
Prerequisites: C or better in MATH 141.

Carolina Core: ARP
MATH 151 - Calculus Workshop I (2 Credits)
Small study group practice in applications of calculus. For elective credit only.
Corequisite: MATH 141.

MATH 152 - Calculus Workshop II (2 Credits)
Small study group practice in applications of calculus. For elective credit only.
Corequisite: MATH 142.

MATH 170 - Finite Mathematics (3 Credits)
Elementary matrix theory; systems of linear equations; permutations and combinations; probability and Markov chains; linear programming and game theory.
Prerequisites: C or better in MATH 111 or MATH 111I or MATH 122, or placement through Algebra version of the Mathematics Placement Test.

Carolina Core: ARP

MATH 172 - Mathematical Modeling for the Life Sciences (3 Credits)
Biological modeling with differential and difference equations; techniques of model modifications; analytic, numerical, and graphical solution methods; equilibria, stability, and long-term system behavior; geometric series; vectors, matrices, eigenvalues, and eigenvectors. Applications principally to population dynamics and compartment models.
Prerequisites: C or better in MATH 122 or MATH 141.

Carolina Core: ARP

MATH 174 - Discrete Mathematics for Computer Science (3 Credits)
Logic, number theory, sequences, series, recursion, mathematical induction, set theory, enumeration, functions, relations, graphs and trees. Connections to computers and to programming are emphasized when possible.
Prerequisites: C or better in MATH 115, MATH 116, MATH 122, or MATH 141, or placement through the pre-calculus version of the Mathematics Placement Test.

Carolina Core: ARP

MATH 198 - Introduction to Careers and Research in the Mathematical Sciences (1 Credit)
An overview of different areas of mathematical research and career opportunities for mathematics majors. Pass/fail only.
Prerequisites: C or better in MATH 141.

Graduation with Leadership Distinction: GLD: Research

MATH 221 - Basic Concepts of Elementary Mathematics I (3 Credits)
The meaning of number, fundamental operations of arithmetic, the structure of the real number system and its subsystems, elementary number theory. Open only to students in elementary or early childhood teacher certification.
Prerequisites: C or better in MATH 111 or MATH 111I or placement through Algebra version of the Mathematics Placement Test.

MATH 222 - Basic Concepts of Elementary Mathematics II (3 Credits)
Informal geometry and basic concepts of algebra. Open only to students in elementary or early childhood teacher certification.
Prerequisites: C or better in MATH 221.

MATH 241 - Vector Calculus (3 Credits)
Vector algebra, geometry of three-dimensional space; lines, planes, and curves in space; polar, cylindrical, and spherical coordinate systems; partial differentiation, max-min theory; multiple and iterated integration, line integrals, and Green’s theorem in the plane.
Prerequisites: C or better in MATH 142.

MATH 242 - Elementary Differential Equations (3 Credits)
Ordinary differential equations of first order, higher order linear equations, Laplace transform methods, series methods; numerical solution of differential equations. Applications to physical sciences and engineering.
Prerequisites: C or better in MATH 142.

MATH 300 - Transition to Advanced Mathematics (3 Credits)
Rigor of mathematical thinking and proof writing via logic, sets, and functions. Intended to bridge the gap between lower-level (computation-based) and upper-level (proof-based) mathematics courses.
Prerequisites: C or better in MATH 142.

MATH 344 - Applied Linear Algebra (3 Credits)
General solutions of systems of linear equations, vector spaces and subspaces, linear transformations, determinants, orthogonality, characteristic polynomials, eigenvalues and eigenvectors, singular value decomposition, and generalized inverse. MATH 344L is an optional laboratory course where additional applications will be discussed.
Prerequisites: C or better in MATH 142.

MATH 344L - Applied Linear Algebra Lab (1 Credit)
Computer based applications of linear algebra for science and engineering students. Topics include numerical analysis of matrices, direct and indirect methods for solving linear systems, and least squares method (regression). Typical applications include practical issues related to discrete Markov processes, image compression, and linear programming. Credit not allowed for both MATH 344L and 544L.
Prerequisite or Corequisite: C or better or concurrent enrollment in MATH 344.

MATH 374 - Discrete Structures (3 Credits)
Propositional and predicate logic; proof techniques; recursion and recurrence relations; sets, combinatorics, and probability; functions, relations, and matrices; algebraic structures.
Prerequisites: C or better in both MATH 142 and CSCE 146.

MATH 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

MATH 401 - Conceptual History of Mathematics (3 Credits)
Topics from the history of mathematics emphasizing the 17th century to the present. Various mathematical concepts are discussed and their development traced. For elective or Group II credit only.
Prerequisites: C or better in MATH 122, or MATH 141.

MATH 490 - Mathematics Internship (1-3 Credits)
Academic counterpart to a professional work experience in which mathematics plays a central role. Introduction to the uses of problem formulation and problem solving in a working environment. Introduction to career possibilities for a student trained in mathematics. Restricted to MATH major with 3.0 or better GPA and completion of at least 60 credits.
Prerequisites: C or better in MATH 241, MATH 300 and at least one 500 level MATH course; CSCE 145 or CSCE 206 and one of the following STAT courses STAT 509, STAT 512, STAT 515.
MATH 499 - Undergraduate Research (1-3 Credits)
Research on a specific mathematical subject area. The specific content of the research project must be outlined in a proposal that must be approved by the instructor and the Undergraduate Director. Intended for students pursuing the B.S. in Mathematics with Distinction. Pass-Fail grading only.
Graduation with Leadership Distinction: GLD: Research

MATH 511 - Probability (3 Credits)
Probability and independence; discrete and continuous random variables; joint, marginal, and conditional densities, moment generating functions; laws of large numbers; binomial, Poisson, gamma, univariate, and bivariate normal distributions. Prerequisites: C or better in MATH 241.
Corequisite: MATH 241.
Cross-listed course: STAT 511
MATH 514 - Financial Mathematics I (3 Credits)
Cross-listed course: STAT 522
MATH 515 - Financial Mathematics II (3 Credits)

Cross-listed course: STAT 523
MATH 520 - Ordinary Differential Equations (3 Credits)
Differential equations of the first order, linear systems of ordinary differential equations, elementary qualitative properties of nonlinear systems. Prerequisites: C or better in MATH 344 or MATH 544.

MATH 521 - Boundary Value Problems and Partial Differential Equations (3 Credits)
Laplace transforms, two-point boundary value problems and Green's functions, boundary value problems in partial differential equations, eigenfunction expansions and separation of variables, transform methods for solving PDE's, Green's functions for PDE's, and the method of characteristics. Prerequisites: C or better in MATH 520 or in both MATH 241 and MATH 242.

MATH 522 - Wavelets (3 Credits)
Basic principles and methods of Fourier transforms, wavelets, and multiresolution analysis; applications to differential equations, data compression, and signal and image processing; development of numerical algorithms. Computer implementation. Prerequisites: C or better in MATH 344 or MATH 544.

MATH 523 - Mathematical Modeling of Population Biology (3 Credits)
Applications of differential and difference equations and linear algebra modeling the dynamics of populations, with emphasis on stability and oscillation. Critical analysis of current publications with computer simulation of models. Prerequisites: C or better in MATH 142, BIOL 301, or MSCI 311 recommended.

MATH 524 - Nonlinear Optimization (3 Credits)
Descent methods, conjugate direction methods, and Quasi-Newton algorithms for unconstrained optimization; globally convergent hybrid algorithm; primal, penalty, and barrier methods for constrained optimization. Computer implementation of algorithms. Prerequisites: C or better in MATH 241 and one of MATH 344 or MATH 544.

MATH 525 - Mathematical Game Theory (3 Credits)
Two-person zero-sum games, minimax theorem, utility theory, n-person games, market games, stability. Prerequisites: C or better in MATH 544 or in both MATH 300 and MATH 344.

MATH 526 - Numerical Linear Algebra (4 Credits)
Matrix algebra, Gauss elimination, iterative methods; overdetermined systems and least squares; eigenvalues, eigenvectors; numerical software. Computer implementation. Credit may not be received for both MATH 526 and MATH 544. Three lectures and one laboratory hour per week. Prerequisites: C or better in MATH 142.

MATH 527 - Numerical Analysis (3 Credits)
Interpolation and approximation of functions; solution of algebraic equations; numerical differentiation and integration; numerical solutions of ordinary differential equations and boundary value problems; computer implementation of algorithms. Prerequisites: C or better in MATH 520 or in both MATH 242 and MATH 344.

Cross-listed course: CSCE 561

MATH 528 - Mathematical Foundation of Data Science and Machine Learning (3 Credits)
Unconstrained and constrained optimization, gradient descent methods for numerical optimization, supervised and unsupervised learning, various reduced order methods, sampling and inference, Monte Carlo methods, deep neural networks. Prerequisites: C or better in MATH 344 or MATH 544.

MATH 531 - Foundations of Geometry (3 Credits)
The study of geometry as a logical system based upon postulates and undefined terms. The fundamental concepts and relations of Euclidean geometry developed rigorously on the basis of a set of postulates. Some topics from non-Euclidean geometry. Prerequisites: C or better in MATH 300.

MATH 532 - Modern Geometry (3 Credits)
Projective geometry, theorem of Desargues, conics, transformation theory, affine geometry, Euclidean geometry, non-Euclidean geometries, and topology. Prerequisites: C or better in MATH 300.
MATH 544 - Elementary Geometric Topology (3 Credits)
Topological properties of the line, plane, and space; Jordan curve theorem; Brouwer fixed point theorem; Euler characteristic of polyhedra; orientable and non-orientable surfaces; classification of surfaces; network topology.
Prerequisites: C or better in MATH 241 and MATH 300.

MATH 544L - Linear Algebra (1 Credit)
Computer-based applications of linear algebra for mathematics students. Topics include numerical analysis of matrices, direct and indirect methods for solving linear systems, and least squares method (regression). Typical applications include theoretical and practical issues related to discrete Markov processes, image compression, and linear programming. Credit not allowed for both MATH 344 and 544L.
Prerequisite or Corequisite: C or better in MATH 300.

MATH 547 - Algebraic Structures I (3 Credits)
Permutation groups; abstract groups; introduction to algebraic structures through study of subgroups, quotient groups, homomorphisms, isomorphisms, direct product; decompositions; introduction to rings and fields.
Prerequisites: C or better in MATH 546.

MATH 547 - Algebraic Structures II (3 Credits)
Rings, ideals, polynomial rings, unique factorization domains; structure of finite groups; topics from fields, field extensions, Euclidean constructions, modules over principal ideal domains (canonical forms).
Prerequisites: C or better in MATH 546.

MATH 548 - Geometry, Algebra, and Algorithms (3 Credits)
Polynomials and affine space, Grobner bases, elimination theory, varieties, and computer algebra systems.
Prerequisites: C or better in MATH 300 and in one of MATH 344 or MATH 544.

MATH 549 - Mathematical Foundation of Network Science (3 Credits)
Graphs and probability, Web graphs, random graphs, models for complex graphs, graph searching algorithms, eigenvalues, PageRank.
Prerequisites: C or better in MATH 374 and in one of MATH 344 or MATH 544.

MATH 550 - Vector Analysis (3 Credits)
Vector fields, line and path integrals, orientation and parametrization of lines and surfaces, change of variables and Jacobians, oriented surface integrals, theorems of Green, Gauss, and Stokes; introduction to tensor analysis.
Prerequisites: C or better in MATH 241.

MATH 551 - Introduction to Differential Geometry (3 Credits)
Parametrized curves, regular curves and surfaces, change of parameters, tangent planes, the differential of a map, the Gauss map, first and second fundamental forms, vector fields, geodesics, and the exponential map.
Prerequisites: C or better in MATH 241 and MATH 300.

MATH 552 - Applied Complex Variables (3 Credits)
Complex integration, calculus of residues, conformal mapping, Taylor and Laurent Series expansions, applications.
Prerequisites: C or better in MATH 241.

MATH 554 - Analysis I (3 Credits)
Least upper bound axiom, the real numbers, compactness, sequences, continuity, uniform continuity, differentiation, Riemann integral and fundamental theorem of calculus.
Prerequisites: C or better in MATH 300 and either at least one of MATH 511, MATH 520, MATH 534, MATH 550, or MATH 552.

MATH 555 - Analysis II (3 Credits)
Riemann-Stieltjes integral, infinite series, sequences and series of functions, uniform convergence, Weierstrass approximation theorem, selected topics from Fourier series or Lebesgue integration.
Prerequisites: C or better in MATH 554.

MATH 561 - Introduction to Mathematical Logic (3 Credits)
Syntax and semantics of formal languages; sentential logic, proofs in first order logic; Godel's completeness theorem; compactness theorem and applications; cardinals and ordinals; the Lowenheim-Skolem-Tarski theorem; Beth's definability theorem; effectively computable functions; Godel's incompleteness theorem; undecidable theories.
Prerequisites: C or better in MATH 300.

MATH 562 - Theory of Computation (3 Credits)
Basic theoretical principles of computing as modeled by formal languages and automata; computability and computational complexity.
Prerequisites: C or better in CSCE 350 or MATH 300.

MATH 563 - Discrete Optimization (3 Credits)
Discrete mathematical models. Applications to such problems as resource allocation and transportation. Topics include linear programming, integer programming, network analysis, and dynamic programming.
Prerequisites: C or better in MATH 300 and in one of MATH 544 or MATH 344.

MATH 570 - Mathematical Foundation of Network Science (3 Credits)
Graphs and probability, Web graphs, random graphs, models for complex graphs, graph searching algorithms, eigenvalues, PageRank.
Prerequisites: C or better in MATH 374 and in one of MATH 344 or MATH 544.
MATH 574 - Discrete Mathematics I (3 Credits)
Mathematical models; mathematical reasoning; enumeration; induction and recursion; tree structures; networks and graphs; analysis of algorithms.
Prerequisites: C or better in MATH 300.

MATH 575 - Discrete Mathematics II (3 Credits)
A continuation of MATH 574. Inversion formulas; Polya counting; combinatorial designs; minimax theorems; probabilistic methods; Ramsey theory; other topics.
Prerequisites: C or better in MATH 574.

MATH 576 - Combinatorial Game Theory (3 Credits)
Winning in certain combinatorial games such as Nim, Hackenbush, and Domineering. Equalities and inequalities among games, Sprague-Grundy theory of impartial games, games which are numbers.
Prerequisites: C or better in MATH 500 or MATH 374.

MATH 580 - Elementary Number Theory (3 Credits)
Divisibility, primes, congruences, quadratic residues, numerical functions. Diophantine equations.
Prerequisites: C or better in MATH 300.

MATH 587 - Introduction to Cryptography (3 Credits)
Design of secret codes for secure communication, including encryption and integrity verification: ciphers, cryptographic hashing, and public key cryptosystems such as RSA. Mathematical principles underlying encryption. Code-breaking techniques. Cryptographic protocols.
Prerequisites: C or better in CSCE 145 or MATH 241, and at least one of CSCE 355, MATH 300, or MATH 374.

MATH 599 - Topics in Mathematics (1-3 Credits)
Recent developments in pure and applied mathematics selected to meet current faculty and student interest.

EMCH 101 - Introduction to Mechanical Engineering (3 Credits)
Introduction to Mechanical Engineering; Engineering thinking; Problem-solving skills; University life and academic expectations.

EMCH 111 - Introduction to Computer-Aided Design (3 Credits)
Principles and practice of visualization and graphical representation using modern computer-aided design tools.

EMCH 200 - Statics (3 Credits)
Principles of mechanics; Equilibrium of particles and rigid bodies; Distributed forces, centroids, and centers of gravity; Moments of inertia of areas; Analysis of simple structures and machines; Friction.
Prerequisites: C or better in MATH 141.

EMCH 201 - Introduction to Applied Numerical Methods (3 Credits)
Introduction and application of linear algebra and numerical methods to the solution of physical and engineering problems. Techniques include iterative solution techniques, methods of solving system of equations, and numerical integration and differentiation.
Prerequisites: MATH 141.

Corequisite: MATH 142.

Cross-listed course: ENCP 201, PHYS 311

EMCH 220 - Mechanical Engineering Fundamentals for Non-Majors (3 Credits)
Introduction to the fundamentals of mechanical engineering for other engineering disciplines. Excluded: Mechanical Engineering Majors.
Prerequisites: MATH 142, PHYS 211.

EMCH 260 - Solid Mechanics (3 Credits)
Study of forces and deformation in solids; Basic concepts of stress and strain; Elastic relations between stress and strain; Stress and strain transformations; Applications to mechanical components under axial, torsional, bending and pressure loads.
Prerequisites: C or better in MATH 241; C or better in EMCH 200 or ENCP 200.

EMCH 290 - Thermodynamics (3 Credits)
Definitions, work, heat, and energy; First law of analyses of systems and control volumes; Second law analysis.
Prerequisites: C or better in PHYS 211; C or better in MATH 142.

EMCH 308 - Introduction to Finite Element Stress Analysis (3 Credits)
Introduction to stress analysis for beams, plates, shells, and solids using finite element based computer tools.
Prerequisites: EMCH 260.

EMCH 310 - Dynamics (3 Credits)
Kinematics of particles and rigid bodies; Kinetics of particles, emphasis on Newton’s second law; energy and momentum methods for the solution of problems; Applications of plane motion of rigid bodies.
Prerequisites: C or better in MATH 242; C or better in EMCH 200 or ENCP 200.
EMCH 327 - Machine Design (3 Credits)
Design against static failure and fatigue failure of structural members and machine parts; Design and selection of components including: fasteners, welds, shafts, springs, gears, bearings, and chain drives. 
Prerequisites: EMCH 260 or ENCP 260.

Graduation with Leadership Distinction: GLD: Research

EMCH 330 - Mechanical Vibrations (3 Credits)
Analysis of forced and damped one-degree-of-freedom systems. Rotating unbalance and vibration isolation. Introduction to two-degrees-of-freedom systems. 
Prerequisites: MATH 242 and either EMCH 310 or ENCP 210.

EMCH 332 - Kinematics (3 Credits)
The application of vector and graphical analysis for the determination of positions, velocities and accelerations of planar linkages used in modern machinery. 
Prerequisites: D or better in EMCH 310 or ENCP 210.

EMCH 354 - Heat Transfer (3 Credits)
One- and two-dimensional steady and transient heat conduction; Free and forced convection; Boiling and condensation; Radiation; Heat exchangers. 
Prerequisites: D or better in EMCH 360 or AESP 265 or ENCP 360.

EMCH 360 - Fluid Mechanics (3 Credits)
Mechanical engineering applications of fluid statics and dynamics. Conservation of mass, momentum, and energy. Similitude and dimensional analysis, open channel flow, lift and drag. Introduction to turbulent flow. 
Prerequisites: C or better in EMCH 200 or ENCP 200; EMCH 201 or ENCP 201, MATH 241.

EMCH 361 - Mechanical Engineering Laboratory I (3 Credits)
Principles of measurement, analysis of data, and experimental planning. Written and oral presentation techniques. 
Prerequisites: STAT 509, PHYS 212.

Prerequisite or Corequisite: EMCH 260 or ENCP 260, EMCH 290 or ENCP 290.

EMCH 362 - Mechanical Engineering Laboratory II (3 Credits)
Introduction of design of experiments with emphasis on confidence levels, dimensional analysis, correlations or experimental data, experimental variance, and uncertainty analyses. Oral and written reports. Excluded: Mechanical Engineering majors. 
Prerequisites: EMCH 361, ELCT 220 or ELCT 221.

Prerequisite or Corequisite: EMCH 360 or ENCP 360, EMCH 310 or ENCP 210.

EMCH 363 - Mechanical Engineering Laboratory III (3 Credits)
Experiments directly related to advanced mechanical engineering courses. Physical and statistical design of experiments. Written and oral reports. 
Prerequisites: EMCH 362.

Prerequisite or Corequisite: EMCH 332, EMCH 354, EMCH 371.

EMCH 367 - Controls (3 Credits)
Introduction to closed-loop control systems in Mechanical Engineering; Development of concepts, including transfer function, feedback, frequency response, and system stability; Programmable logic controllers (PLC); Control system design methods. 
Prerequisites: D or better in EMCH 310 or ENCP 210, D or better in EMCH 368.

EMCH 368 - Mechatronics (4 Credits)
Introduction to the principles of integrating mechanical, electrical and computer engineering disciplines within a unified framework towards designing mechatronic systems; Fundamental overview of mechatronics (sensors, signals, actuators, microprocessors and models of mechatronic systems); Experimental exercises using microcontrollers. 
Prerequisites: D or better in CSCE 206; D or better in ELCT 220 or ELCT 221; D or better in EMCH 260 or ENCP 260.

EMCH 371 - Materials (3 Credits)
An introduction to the relationships between chemical bonding, crystal structure, phase equilibria, microstructure, and properties of engineering materials. 
Prerequisites: D or better in EMCH 260 or ENCP 260.

EMCH 377 - Manufacturing (3 Credits)
Prerequisites: EMCH 371.

EMCH 380 - Project Management for Engineers (3 Credits)
Introduction to decision making for engineering projects. Planning methods, forecasting, exploratory charts, team building, leadership, quality control, project scheduling, and project economics. 
Prerequisites: D or better in MATH 241.

EMCH 394 - Applied Thermodynamics (3 Credits)
Prerequisites: EMCH 201, EMCH 290.

EMCH 427 - Mechanical Design I (3 Credits)
Lecture topics include design specifications and planning, innovation, economic factors, safety, reliability, ethics and social impact. Selection, specification, and feasibility study of an open-ended design project to be completed in EMCH 428. 
Prerequisites: EMCH 327, EMCH 354, EMCH 371, EMCH 394.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research
EMCH 428 - Design II (3 Credits)
Open-ended design project continuation including: identifying and performing relevant engineering analyses, parametric design refinement, project life cycle economic analysis, product/prototype construction, testing, and evaluation of the design; Consideration of safety, reliability, sustainability, and social impact.
Prerequisites: D or better in EMCH 427.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

EMCH 441 - Automotive System Fundamentals (3 Credits)
Automotive engineering systems, descriptions, and associated operating and design principles. Past, present, and future automotive systems and components.
Prerequisites: EMCH 260, EMCH 394.

EMCH 460 - Special Problems (1-3 Credits)
Individual investigation or studies of special topics. A maximum of three credits may be applied toward a degree. Advance approval of project proposal by advisor and instructor.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

EMCH 497 - Design of Thermal Systems (3 Credits)
Methodology of design, mathematical modeling of thermal equipment, system simulation, system optimization using digital computer, and investment economics. Requires a semester-long design project. Two lectures and one problem session per week.
Prerequisites: EMCH 354, EMCH 394.

Graduation with Leadership Distinction: GLD: Research

EMCH 499 - Fundamentals of Engineering Preparation (1 Credit)
Preparation for the Fundamentals of Engineering Exam. Review general engineering and mechanical engineering-specific areas. Restricted to seniors. May not be used to satisfy program requirements.

EMCH 501 - Engineering Analysis I (3 Credits)
Engineering applications of solution techniques for ordinary and partial differential equations, including Sturm-Liouville theory, special functions, transform techniques, and numerical methods.
Prerequisites: MATH 242.

EMCH 502 - Engineering Analysis II (3 Credits)
Engineering applications of optimization methods, calculus of variations including approximate methods, and probability concepts.
Prerequisites: MATH 242.

EMCH 507 - Computer-Aided Design (3 Credits)
Solid modeling using commercial computer-aided design (CAD) applications package to reverse engineer-manufactured parts. Analytical curves and surfaces, transformation matrices, assembly modeling, and computer tools for analyzing parts and mechanisms.
Prerequisites: EMCH 201, EMCH 327.

EMCH 508 - Finite Element Analysis in Mechanical Engineering (3 Credits)
Prerequisites: EMCH 201, EMCH 327.

EMCH 509 - Computer-Aided Manufacturing (3 Credits)
Optimizing computer-controlled machining processes, programmable logic controllers (PLCs), motion control of servomechanisms, CNC machining practices and programming, and robotics.
Prerequisites: D or better in MATH 241.

EMCH 516 - Control Theory in Mechanical Engineering (3 Credits)
An introduction to closed-loop control systems; development of concepts, including transfer function, feedback, frequency response, and system stability by examples taken from mechanical engineering practice; control system design methods.
Prerequisites: MATH 242, EMCH 330.

EMCH 520 - Technology Planning (3 Credits)
Assessment of technological needs in the organization; coupling research and development to production; selection and evaluation of the technical project/program; technical planning, resource allocation, direction, and control; effective use and development of the engineering staff; the process of and barriers to technological change; technology, values, and policy. Senior or graduate standing.

EMCH 521 - Concurrent Engineering (3 Credits)
A systematic approach to the mechanical design of products, requiring the concurrent design of all related processes.
Prerequisites: EMCH 327.

EMCH 522 - Design for Manufacture and Assembly (3 Credits)
Product design principles for early consideration of issues to shorten product development time and to ensure smooth transition to manufacturing, thus accelerating time-to-market.
Prerequisites: EMCH 327 and EMCH 377.

EMCH 527 - Design of Mechanical Systems (3 Credits)
Summary of mechanical design, project management, product liability and the law, intellectual property ethics and professionalism.
Prerequisites: EMCH 327.

EMCH 528 - Product Safety Engineering (3 Credits)
Design considerations and methodologies for products to ensure adequate safeguards for the prevention of accidents, failures, and injuries. Senior standing.

EMCH 529 - Sustainable Design and Development (3 Credits)
System design and development accomplished with consideration of environmental/ecological, economic, and social constraints. Students will be introduced to sustainable design and accomplish a design project. Senior standing.

EMCH 530 - Introduction to Engineering Optimization (3 Credits)
Mathematical formulation of an optimum design problem, introduction to optimum design concepts and multidisciplinary design optimization. Use of mathematical programming methods for unconstrained and constrained minimization for engineering design optimization.
Prerequisites: C or better in MATH 142, Graduate standing.

EMCH 532 - Intermediate Dynamics (3 Credits)
Kinematics and dynamics of particles and rigid bodies using Newtonian mechanics. Work/energy, impulse/momentum, 3-D motion.
Prerequisites: EMCH 332.

EMCH 535 - Robotics in Mechanical Engineering (3 Credits)
Overview of robotics in practice and research: forward and inverse kinematics, statics and dynamics, trajectory generation, control, vision, and motion planning.
Prerequisites: EMCH 332.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMCH 544</td>
<td>Compressible Fluid Flow (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Application of the conservation laws of a compressible fluid to isentropic flows, flow with friction, and flows with heating or cooling. Shock and expansion waves. Nozzle and diffuser design.</td>
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<td></td>
<td><strong>Prerequisites:</strong> EMCH 354.</td>
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<tr>
<td>EMCH 550</td>
<td>Introduction to Nuclear Safeguards (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<tr>
<td></td>
<td>International nuclear non-proliferation programs and activities, proliferation risk assessment, and nuclear materials management and safeguards, including physical protection systems, material accounting and control, monitoring, and regulatory issues.</td>
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<td></td>
<td><strong>Prerequisites:</strong> CHEM 112, PHYS 212, PHYS 212L, MATH 241, MATH 242.</td>
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<tr>
<td>EMCH 551</td>
<td>Nuclear Energy in the Hydrogen Economy (3 Credits)</td>
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<td>For Undergraduate.</td>
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<td></td>
<td>The current role of nuclear energy in the US and global energy mix will be described and the potential for future growth will be surveyed, particularly in the development of the hydrogen economy.</td>
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<td><strong>Prerequisites:</strong> EMCH 354.</td>
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<tr>
<td>EMCH 552</td>
<td>Introduction to Nuclear Engineering (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<tr>
<td></td>
<td>Radioactivity and nuclear reactions; steady state and transient nuclear reactor theory.</td>
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<tr>
<td>EMCH 553</td>
<td>Nuclear Fuel Cycles (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Processing of nuclear fuel including fabrication, irradiation, and waste disposal or storage. In-core and out-of-core fuel management. Fuel cycle economics.</td>
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<td></td>
<td><strong>Prerequisites:</strong> EMCH 552.</td>
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<tr>
<td>EMCH 554</td>
<td>Intermediate Heat Transfer (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Radiant heat exchange, combined modes of heat transfer, computer techniques in heat transfer analysis and design, environmental heat transfer.</td>
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<td><strong>Prerequisites:</strong> EMCH 354.</td>
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<tr>
<td>EMCH 555</td>
<td>Instrumentation for Nuclear Engineering (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Basic operational principles of radiation detection and nuclear instrumentation systems. Selection of the proper detector to measure radiation. Statistical analysis of results.</td>
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<td><strong>Prerequisite or Corequisite:</strong> EMCH 552 or PHYS 511.</td>
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<tr>
<td>EMCH 555L</td>
<td>Nuclear Instrumentation Laboratory (1 Credit)</td>
<td>1</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Use of nuclear radiation detection and instrumentation systems and computers. Data acquisition and analysis.</td>
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<td><strong>Corequisite:</strong> EMCH 555.</td>
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<tr>
<td>EMCH 556</td>
<td>Introduction to Risk Analysis and Reactor Safety (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>An introduction to probabilistic risk assessment (PRA) methods as applied to nuclear power plants but also examples from the chemical industry, aerospace, transportation, and other sectors. Addresses failure and reliability analysis, fault trees, event trees, reactor safety, regulatory practice.</td>
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<td><strong>Prerequisites:</strong> STAT 509.</td>
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<tr>
<td>EMCH 557</td>
<td>Introduction to Radiation Shielding and Sources (3 Credits)</td>
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<td>For Undergraduate.</td>
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<td></td>
<td>Radiation interactions and transport, design of radiation shields, point kernel, and Monte Carlo methods. Dosimetry, buildup factors, radiation sources, and shield materials.</td>
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<td><strong>Prerequisites:</strong> EMCH 290 or ECEH 310 or ENCP 290.</td>
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<tr>
<td>EMCH 558</td>
<td>Introduction to Nuclear Reactor Systems (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>PWR and BWR reactors, reactor system designs for accident prevention and mitigation, protection systems, containment design, emergency cooling requirements, code of federal regulations, and design criteria.</td>
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<td><strong>Corequisite:</strong> EMCH 552.</td>
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<tr>
<td>EMCH 560</td>
<td>Intermediate Fluid Mechanics (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td><strong>Prerequisites:</strong> EMCH 310, EMCH 360.</td>
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<tr>
<td>EMCH 561</td>
<td>Current Topics in Mechanical Engineering (1-3 Credits)</td>
<td>1-3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Special topics related to current issues in mechanical engineering. Course content varies and will be announced in the schedule of classes by title.</td>
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<td>EMCH 562</td>
<td>Micro/nanofluids and Lab-on-a-Chip (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Basic fluid mechanics; capillary, drop and micro/nanoparticle, electrokinetics; Micropump, mixer, preconcentrator, electrophoresis, microactuator and particle manipulator; Sensors for pressure, velocity, concentration, temperature in environmental monitoring/biodefence, clinical diagnostics, drug discovery/delivery. Restricted to: Upper division.</td>
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<td><strong>Prerequisites:</strong> CHEM 112, CHEM 112L, PHYS 212.</td>
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<td>EMCH 563</td>
<td>Bio Nano/Micro Electro-Mechanical Systems (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Nano/microfabrication for nano/microstructures; photolithography, self-assembly, etching techniques, physical and chemical vapor deposition, surface and bulk micromachining, MEMS integration and packaging; applications in Biomedical Engineering; microactuators, biomicrosensors, and biomedical devices.</td>
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<td></td>
<td><strong>Prerequisites:</strong> CHEM 112, CHEM 112L, PHYS 212.</td>
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<td>EMCH 564</td>
<td>Mechanical Behavior of Materials (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Micromechanisms of the deformation and fracture of structural materials; brittle versus ductile behavior; fatigue and creep; strengthening mechanisms; mechanical testing techniques; methods in analysis of mechanical failures.</td>
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<td><strong>Prerequisites:</strong> EMCH 260, EMCH 371.</td>
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<td>EMCH 565</td>
<td>Physical Metallurgy (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td>Equilibrium and phase relations in metallic systems; kinetics of phase transformations; annealing and precipitation phenomena.</td>
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<td><strong>Prerequisites:</strong> EMCH 371.</td>
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<tr>
<td>EMCH 566</td>
<td>Adaptive Materials and Smart Structures (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>A multidisciplinary introductory course addressing the engineering field of adaptive materials and smart structures.</td>
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<td></td>
<td><strong>Prerequisites:</strong> EMCH 260, EMCH 310.</td>
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<td>EMCH 568</td>
<td>Fundamentals and Applications of Fuel Cells (3 Credits)</td>
<td>3</td>
<td>For Undergraduate.</td>
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<td></td>
<td>Study of fuel cell principles, fuel cell characterization, characteristics of the major types of fuel cells, fuel cell and stack components, fuel cell stack and system design, fuel cell applications in portable, transportation, and stationary areas, as well as the current status and future research focus of fuel cells. Restricted to: Upper division.</td>
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<td></td>
<td><strong>Prerequisites:</strong> EMCH 290 or ECEH 310 or ENCP 290.</td>
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</tbody>
</table>
EMCH 577 - Aerospace Structures I (3 Credits)
Static analysis of aerospace structural elements such as bars, beams, columns, plates, and shells. Topics include, but not limited to elasticity theory, simple beam theory, boundary value problems, and structural stability. Upper division or graduate status.

EMCH 578 - Introduction to Aerodynamics (3 Credits)
Fundamentals of aerodynamics, elements of compressible flow, thin airfoil theory, finite wing theory, flow through nozzles and wind tunnels, normal and oblique shock waves, elements of the methods of characteristics of finite difference solutions for compressible flows, aspects of hypersonic flow.

EMCH 580 - Mechanics of Solid Biomaterials (3 Credits)
Prerequisites: MATH 242.

EMCH 584 - Advanced Mechanics of Materials (3 Credits)
Topics in stress analysis, including unsymmetrical bending, three-dimensional stress-strain; torsion; rotational stress; thick-walled pressure vessels; beams on elastic foundations; and stress concentration.
Prerequisites: EMCH 260.

EMCH 585 - Introduction to Composite Materials (3 Credits)
Prerequisites: EMCH 327, EMCH 371, MATH 242.

EMCH 586 - Experimental Stress Analysis (3 Credits)
Stress analysis utilizing experimental techniques including transmission and scattered light photoelasticity, strain gauges, and brittle coatings. Introduction to modern concepts of coherent optics in stress analysis with emphasis on engineering applications.
Prerequisites: EMCH 260.

EMCH 592 - Introduction to Combustion (3 Credits)
Chemical thermodynamics, reaction kinetics, and combustion phenomena in energy production. Application to the modeling of coal combustion, incineration, and combustion engines.
Prerequisites: EMCH 354, EMCH 394.

EMCH 594 - Solar Heating (3 Credits)
Solar radiation; review of heat transfer and radiation characteristics of relevant materials; flat plate and focusing collectors; energy storage models for design of solar heating systems; system design by computer simulation; direct conversion by solar cells.
Prerequisites: EMCH 290, EMCH 354, or ECHE 321.

EMCH 597 - Thermal Environmental Engineering (3 Credits)
Prerequisites: EMCH 354, EMCH 394.

Media Arts (MART)

MART 101 - Making Media That Matters (3 Credits)
Introductory media arts creation and study for non-majors. Developing an individual aesthetic for the screen and related media by becoming proficient in the conception, creation, and refinement of graphics, audio, and video, while emphasizing the histories and theories that led to and support the current state of the media arts.

MART 110 - Media Culture (3 Credits)
Introduction to the critical study of film, video, photography, audio, and new media.
Cross-listed course: FAMS 110
Carolina Core: AIU

MART 201 - Foundations of Media Arts Production (3 Credits)
Fundamental conceptual and technical aspects of media.
Carolina Core: AIU

MART 210 - Digital Media Arts Fundamentals (3 Credits)
Introduction to theory and practice of origination, sequencing, and processing of screen-based and related media art.
Carolina Core: AIU

MART 262 - Digital Imaging (3 Credits)
Aesthetic and communicative elements of the production of digital images, including capture, processing, and output.

MART 321 - Media Writing (3 Credits)
Storytelling forms and formats for screen-based and related media arts.

MART 341 - Sound Design (3 Credits)
Aesthetic and communicative elements of audio design for screen-based and related media arts.
Prerequisites: MART 210.

MART 371 - The Moving Image (3 Credits)
Introduction to the theory and practice of motion picture production.
Prerequisites: MART 201 and MART 210.

MART 380 - New Media Art (3 Credits)
Introduction to the design and development of new media art, including internet-based art, media performance, installation, and interactivity.
Prerequisites: MART 210 or ARTS 102.

MART 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

MART 490 - Special Topics in Media Arts (3 Credits)
May be repeated once for credit as topic varies by title.

MART 495 - Research Seminar (3 Credits)
Research in a selected area of media arts.
Prerequisites: junior status
Graduation with Leadership Distinction: GLD: Research

MART 499 - Internship in Media Arts (3-6 Credits)
Supervised experience in media productions and media production facilities. Contract approved by instructor, advisor, and department head is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity
MART 521A - Media Writing Advanced: Screenwriting (3 Credits)
Advanced study of screenwriting. Content varies by course title: 521A Screenwriting; 521B Feature Film; 521C Manga and Anime; 521D Television Writing. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 321.

MART 521B - Media Writing Advanced: Feature Film (3 Credits)
Advanced study of feature film writing. Content varies by course title: 521A Screenwriting; 521B Feature Film; 521C Manga and Anime; 521D Television Writing. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 321.

MART 521C - Media Writing Advanced: Manga and Anime (3 Credits)
Advanced study of Manga and Anime. Content varies by course title: 521A Screenwriting; 521B Feature Film; 521C Manga and Anime; 521D Television Writing. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 321.

MART 521D - Media Writing Advanced: Television Writing (3 Credits)
Advanced study of television writing. Content varies by course title: 521A Screenwriting; 521B Feature Film; 521C Manga and Anime; 521D Television Writing. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 321.

MART 571A - Moving Image Advanced: Narrative (3 Credits)
Narrative for motion picture.
Prerequisites: MART 371.

MART 571B - Moving Image Advanced: Documentary (3 Credits)
Documentary production.
Prerequisites: MART 371.

MART 571C - Moving Image Advanced: Animation (3 Credits)
Animation production.
Prerequisites: MART 371.

MART 571D - Moving Image Advanced: Experimental (3 Credits)
Experimental motion picture production.
Prerequisites: MART 371.

MART 571E - Moving Image Advanced: Cinematography (3 Credits)
Motion picture cinematography.
Prerequisites: MART 371.

MART 571F - Moving Image Advanced: Sound for Motion Picture (3 Credits)
Sound production for motion picture.
Prerequisites: MART 371.

MART 581A - New Media Advanced: Site-based and Installation Art (3 Credits)
Art and practice of site-based and installation art. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 581B - New Media Advanced: Mobile Platforms (3 Credits)
Art and practice of mobile platforms. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 581C - New Media Advanced: Media Performance (3 Credits)
Art and practice of media performance. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 581D - New Media Advanced: Video Game Design (3 Credits)
Art and practice of video game design. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 581E - New Media Advanced: Sound Art (3 Credits)
Art and practice of sound art. Content varies by course title: 581A, Site-based and Installation Art; 581B, Mobile Platforms; 581C, Media Performance; 581D, Video Game Design; 581E, Sound Art. May be repeated as content varies by title up to 3 times.
Prerequisites: MART 380.

MART 590 - Special Topics in Media Arts (3 Credits)
Selected topics in media arts. Course content varies and will be announced in the schedule of classes by title.

MART 591 - Special Topics in Film and Media Studies (3 Credits)
Intensive study of a specific topic in film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: ARTH 551, FAMS 511

MART 592 - Special Topics in Film and Media Histories (3 Credits)
Intensive study of a specific topic in film and media history. May be repeated as content varies by title.
Prerequisites: FAMS 300.

MART 593 - Special Topics in U.S. Film and Media (3 Credits)
Intensive study of a specific topic in U.S. film and media studies. May be repeated as content varies by title.
Prerequisites: FAMS 240.

MART 594 - Special Topics in Global Film and Media (3 Credits)
Intensive study of a specific topic concerning films produced in a country other than the United States. May be repeated as content varies by title.
Prerequisites: FAMS 240.

Cross-listed course: FAMS 598, FORL 598

MART 598 - Media Management and Distribution (3 Credits)
Research in media management and distribution.
Prerequisites: MART 110 and MART 210.
Middle Level Education (EDML)

EDML 321 - Middle Level Teaching and Management (3 Credits)
Overview of national trends in the middle school with an analysis of the relationship of early adolescent developmental characteristics to organization, curriculum, instruction, and teaching in the middle school level.

EDML 470 - Foundations in Reading (3 Credits)
Reading foundations, curriculum, and assessments for teaching young adolescents across academic disciplines.

EDML 471 - Middle Level Content Area Reading and Writing (3 Credits)
Examination of planning, implementation, and assessment of reading strategy instruction across disciplines and content areas in middle level classrooms. Restricted to: teacher candidates enrolled in the middle level degree program.

EDML 553 - Methods and Materials for Teaching Science in the Middle Grades (3 Credits)
A study of methods, techniques, and materials of instruction appropriate to science teaching in the middle school.

EDML 563 - Methods and Materials for Teaching Social Studies in the Middle School (3 Credits)
A study of goals, content, methods, and materials of instruction in middle school social studies.

EDML 572 - Middle Level Literacy Assessment (3 Credits)
Introduces literacy assessment for individual and small groups or middle level students.

EDML 573 - Methods and Materials for Teaching English/Language Arts in the Middle Grades (3 Credits)
Introduces goals, content, and methods of teaching language arts at the middle level.

EDML 583 - Methods and Materials for Teaching Mathematics in the Middle Grades (3 Credits)
A study of methods, techniques, and materials of instruction appropriate to mathematics teaching in the middle school.

EDML 584 - Middle School Internship Seminar (3 Credits)
Inquiry into the issues that arise during internship B experiences including classroom management, adolescent development, legal/professional responsibilities, multicultural perspectives, and needs of exceptional children.
Corequisite: EDML 599.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDML 598 - Internship A in the Middle School (3 Credits)
Application of effective teaching techniques and organization of instructional settings for middle school students.
Prerequisites: admission to internship in middle level program.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

EDML 599 - Internship B in the Middle School (12 Credits)
Application of effective teaching techniques and organization of instructional settings for middle school students.
Prerequisites: B or better in EDML 598.
Corequisite: EDSE 584.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

Experiential Learning: Experiential Learning Opportunity

Military Science (ARMY)

ARMY 101 - Fundamentals of Military Science (2 Credits)
Development of leadership, management, and communication skills. Map reading, land navigation, and study/time management techniques.

ARMY 102 - Introduction to the Army (2 Credits)
History, organization, mission, and role of United States Army in national defense. Components of total Army structure. Emphasis on group dynamics and communication skills.

ARMY 201 - Fundamentals of Military Leadership (3 Credits)
Oral and written military communications, planning, and organizing techniques. Current military leadership doctrine and application. Combined arms concepts, organizations, and tactics.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ARMY 202 - Fundamentals of Military Decision Making (3 Credits)
Soldier skills, including map reading and land navigation. Introduces Army troop-leading procedures through practical exercises and principles of war using historical events.

ARMY 301 - Advanced Military Decision Making (4 Credits)
Small group leadership through practical applications. Individual leadership skills with emphasis on problem analysis, decision formulation, and steps of decision making.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ARMY 302 - Applied Military Leadership (4 Credits)
Continues development of leadership competencies and confidence. Tactical training exercises to enhance leadership development.
Prerequisites: ARMY 301.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

ARMY 400 - Nurses Summer Training Program Clinical Elective (3 Credits)
A 3-week summer nursing experience conducted at an Army hospital in the United States, Europe, or Asia that orients the cadet nurse to the mission of the U.S. Army Medical Department and its health care delivery system. It provides a minimum of 120 hours of clinical experience to develop nursing, leadership, administrative, and interpersonal skills.
Prerequisites: completion of the Leadership Development Assessment Course [LDAC], NURS 412 or its equivalent, acceptance into any Army ROTC, and enrolled Army ROTC Nursing Cadets.
ARMY 401 - Leadership and Management Seminar I (4 Credits)
Current Army leadership, tactical, and training doctrine. Military law in context of peacekeeping/enforcement operations. Overview of Army’s role in joint operations.
**Prerequisites:** ARMY 301.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

ARMY 402 - Leadership and Management Seminar II (4 Credits)
Application of current Army leadership, tactical, and training doctrine. Evolution of military professionalism; civil-military relations, personal and professional ethics, and military justice system.
**Prerequisites:** ARMY 401.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

ARMY 406 - American Military Experience (3 Credits)
Transformation of war and of the institutions for waging war from the American Revolution to the present.
**Cross-listed course:** HIST 468

**Music (MUSC)**

MUSC 100 - Recital Class (0 Credits)
Required attendance for music majors at recitals and seminars. Graded S or U.

MUSC 100A - Music Advocacy I: Understanding the Power of Your Music (0 Credits)
An introduction to advocacy methods, techniques and experiences to understand the positive effects of music in American society. Pass/Fail Grading.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

MUSC 100L - Recital Class Laboratory (1 Credit)
Introduction to the literature and styles of western music. Not auditable.

MUSC 101A - Secondary Applied Music/ Flute/ Piccolo (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101B - Secondary Applied Music/ Oboe/ English Horn (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101C - Secondary Applied Music/ Clarinet (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101D - Secondary Applied Music/ Bassoon (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101E - Secondary Applied Music/ Saxophone (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101F - Secondary Applied Music/ French Horn (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101G - Secondary Applied Music/ Trumpet (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101H - Secondary Applied Music/ Trombone (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101I - Secondary Applied Music/ Euphonoium (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101J - Secondary Applied Music/ Tuba (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101K - Secondary Applied Music/ Percussion (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101L - Secondary Applied Music/ Harpsichord (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101N - Secondary Applied Music/ Classical Guitar (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101O - Secondary Applied Music/ Organ (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101P - Secondary Applied Music/ Piano (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101Q - Secondary Applied Music/ Harp (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101R - Secondary Applied Music/ Violin (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101S - Secondary Applied Music/ Viola (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101T - Secondary Applied Music/ Violoncello (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101U - Secondary Applied Music/ Double Bass (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101V - Secondary Applied Music/ Voice (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101W - Secondary Applied Music/ Service Playing (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101Y - Secondary Applied Music/ Conducting (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 101Z - Secondary Applied Music/ Jazz (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 102</td>
<td>Introduction to Classical Guitar (1 Credit)</td>
<td></td>
<td>Study of basic classical techniques, exercises, and repertory. Must be completed with at least a B before acceptance into applied sequence. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 103</td>
<td>Basic Guitar (2 Credits)</td>
<td></td>
<td>An introduction to playing the guitar as both a solo and an accompanying instrument. One class meeting and one private lesson per week.</td>
</tr>
<tr>
<td>MUSC 104</td>
<td>Introduction to Piano (2 Credits)</td>
<td></td>
<td>An introductory course in the beginning techniques of making music at the piano. One group class and one private lesson each week. This class is designed for students with no prior formal training in piano.</td>
</tr>
<tr>
<td>MUSC 105</td>
<td>Introduction to Singing (2 Credits)</td>
<td></td>
<td>An introduction to singing, designed for students with no prior formal training in music.</td>
</tr>
<tr>
<td>MUSC 110</td>
<td>Introduction to Music (3 Credits)</td>
<td></td>
<td>Perceptive listening and appreciation of musical elements, forms and style periods, including composers’ lives, individual styles and representative works. Emphasis on classical music; jazz and American popular music included. Carolina Core: AIU</td>
</tr>
<tr>
<td>MUSC 110L</td>
<td>Introduction to Music Laboratory (0 Credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSC 111A</td>
<td>Lower Division Applied Music/ Flute/ Piccolo (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111B</td>
<td>Lower Division Applied Music/ Oboe/ English Horn (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111C</td>
<td>Lower Division Applied Music/ Clarinet (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111D</td>
<td>Lower Division Applied Music/ Bassoon (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111E</td>
<td>Lower Division Applied Music/ Saxophone (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
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<tr>
<td>MUSC 111F</td>
<td>Lower Division Applied Music/ French Horn (1-3 Credits)</td>
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<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111G</td>
<td>Lower Division Applied Music/ Trumpet (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111H</td>
<td>Lower Division Applied Music/ Trombone (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111I</td>
<td>Lower Division Applied Music/ Euphonium (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111J</td>
<td>Lower Division Applied Music/ Tuba (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111K</td>
<td>Lower Division Applied Music/ Percussion (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111L</td>
<td>Lower Division Applied Music/ Harpsichord (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111N</td>
<td>Lower Division Applied Music/ Classical Guitar (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111O</td>
<td>Lower Division Applied Music/ Organ (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
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<tr>
<td>MUSC 111P</td>
<td>Lower Division Applied Music/ Piano (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
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<tr>
<td>MUSC 111Q</td>
<td>Lower Division Applied Music/ Harp (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111R</td>
<td>Lower Division Applied Music/ Violin (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111S</td>
<td>Lower Division Applied Music/ Viola (1-3 Credits)</td>
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<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111T</td>
<td>Lower Division Applied Music/ Violoncello (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111U</td>
<td>Lower Division Applied Music/ Double Bass (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111V</td>
<td>Lower Division Applied Music/ Voice (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111W</td>
<td>Lower Division Applied Music/ Service Playing (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111Y</td>
<td>Lower Division Applied Music/ Conducting (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 111Z</td>
<td>Lower Division Applied Music/ Jazz (1-3 Credits)</td>
<td></td>
<td>Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.</td>
</tr>
<tr>
<td>MUSC 113</td>
<td>Special Topics in Popular Music (3 Credits)</td>
<td></td>
<td>An introduction into the function of popular music in contemporary society. May be repeated as content varies by title. Carolina Core: AIU</td>
</tr>
<tr>
<td>MUSC 114</td>
<td>Introduction to Music Theory (3 Credits)</td>
<td></td>
<td>Practice in basic written theory and aural skills. Concepts of rhythm, melody, harmony, form, and expression. Open to non-music majors. Not for credit toward major requirements in music degrees. Subdiscipline: Music (Theory and Compostition). Carolina Core: AIU</td>
</tr>
<tr>
<td>MUSC 115</td>
<td>Music Theory I (3 Credits)</td>
<td></td>
<td>An introduction to the basic elements, materials, and structure of Western tonal music with an emphasis on harmony, voice leading, and counterpoint. Carolina Core: AIU</td>
</tr>
</tbody>
</table>
MUSC 116 - Music Theory II (3 Credits)  
Continuation of MUSC 115.  
Prerequisites: MUSC 115.

MUSC 117 - Aural Skills I (1 Credit)  
Development of musical independence, including sightsinging, ear training, rhythmic reading, dictation, and partsinging.

MUSC 118 - Aural Skills II (1 Credit)  
Continuation of MUSC 117.  
Prerequisites: MUSC 117.

MUSC 120 - Ensemble - Accompanying (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 122 - University Band (1 Credit)  
A large concert ensemble of brass, woodwind, and percussion instrumentalists.

MUSC 123 - The Marching Band (1 Credit)  
Not Auditable.

MUSC 124 - Symphonic Winds (1 Credit)  
Not Auditable.

MUSC 125 - University Concert Choir (1 Credit)  
Not Auditable.

MUSC 126 - University Orchestra (1 Credit)  
Not Auditable.

MUSC 129 - University Chorus (1 Credit)  
Not Auditable.

MUSC 130 - Ensemble (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable

MUSC 130A - Ensemble - Winds (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable

MUSC 130D - Ensemble - Percussion (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130E - Contemporary Music Ensemble (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130F - Ensemble - Pep Band (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130G - Ensemble - Choral (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130H - Men's Chorus (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130I - Ensemble - Strings and Piano (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130K - Ensemble - Opera Workshop (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130L - Ensemble - Guitar (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130M - Ensemble - Strings (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130O - Ensemble - Opera Orchestra (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130P - Ensemble - Opera Production (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130Q - Ensemble - Gospel Choir (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130S - Ensemble - Chamber Orchestra (1 Credit)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130U - Chamber Music (0-1 Credits)  
Groups of musicians with keyboard and wind instrument combinations.

MUSC 130X - Women's Chorus (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 130Y - Ensemble - Campus Choirs (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 131 - Jazz Ensemble (1 Credit)  
Not Auditable.

MUSC 133 - Wind Ensemble (1 Credit)  
Not Auditable.

MUSC 134 - Ensemble - Chamber Orchestra (1 Credit)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 135B - Brass Ensemble (0-1 Credits)  
Ensembles of like Brass instruments, Trumpet, Trombone, Tuba, etc.

MUSC 135C - Ensemble - Steel Band (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 135E - Ensemble - Saxophone (0-1 Credits)  
Chamber ensembles; special ensembles of instruments and voices. Not Auditable.

MUSC 140 - Jazz and American Popular Music (3 Credits)  
Development of jazz and American popular music through the study of important soloists, ensembles, arrangers, and composers.  
Carolina Core: AIU

MUSC 145 - Introduction to Music Literature (3 Credits)  
Listening to examples of all style periods and genres of Western music. Analysis of form and other audible style characteristics. Study of major works of the concert repertory.  
Prerequisites: MUSC 110 for non music majors.
MUSC 203 - Basic Guitar II (2 Credits)
A continuation of MUSC 103 in which students learn to play the guitar as both a solo and an accompanying instrument. One class meeting and one private lesson per week.
Prerequisites: MUSC 103.

MUSC 210 - Understanding the Psychology of Music (3 Credits)
Various psychological and psychosocial aspects of human musical behavior, including introductory musical acoustics, perception and cognition of music, music and the brain, music processing across world cultures, music and emotions, music and human health, music in social contexts, and principles of experimental design.
Carolina Core: GSS

MUSC 211A - Lower Division Applied Music--Performance Track/ Flute/ Piccolo (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211B - Lower Division Applied Music--Performance Track/ Oboe/ English Horn (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211C - Lower Division Applied Music--Performance Track/ Clarinet (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211D - Lower Division Applied Music--Performance Track/ Bassoon (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211E - Lower Division Applied Music--Performance Track/ Saxophone (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211F - Lower Division Applied Music--Performance Track/ French Horn (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211G - Lower Division Applied Music--Performance Track/ Trumpet (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211H - Lower Division Applied Music--Performance Track/ Trombone (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211I - Lower Division Applied Music--Performance Track/ Euphonium (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211J - Lower Division Applied Music--Performance Track/ Tuba (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211K - Lower Division Applied Music--Performance Track/ Percussion (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211L - Lower Division Applied Music--Performance Track/ Harpsichord (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211N - Lower Division Applied Music--Performance Track/ Classical Guitar (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211O - Lower Division Applied Music--Performance Track/ Organ (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211P - Lower Division Applied Music--Performance Track/ Piano (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211Q - Lower Division Applied Music--Performance Track/ Harp (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211R - Lower Division Applied Music--Performance Track/ Violin (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211S - Lower Division Applied Music--Performance Track/ Viola (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211T - Lower Division Applied Music--Performance Track/ Violoncello (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211U - Lower Division Applied Music--Performance Track/ Double Bass (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211V - Lower Division Applied Music--Performance Track/ Voice (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211W - Lower Division Applied Music--Performance Track/ Service Playing (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211Y - Lower Division Applied Music--Performance Track/ Conducting (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 211Z - Lower Division Applied Music--Performance Track/ Jazz (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 215 - Music Theory III (3 Credits)
Continuation of MUSC 116.
Prerequisites: MUSC 116.
MUSC 216 - Music Theory IV (3 Credits)
A study of organization in music of the late 19th, 20th, and 21st centuries.
Prerequisites: MUSC 215.

MUSC 217 - Aural Skills III (1 Credit)
Continuation of MUSC 118.
Prerequisites: MUSC 118.

MUSC 218 - Aural Skills IV (1 Credit)
Continuation of MUSC 217.
Prerequisites: MUSC 217.

MUSC 219 - Jazz Improvisation I (3 Credits)
Application of aural and theoretical skills in selected jazz repertory.
Prerequisites: MUSC 120.

MUSC 220 - Jazz Improvisation II (3 Credits)
Application of aural and theoretical skills in selected jazz repertory.
Prerequisites: MUSC 120.

MUSC 268 - Keyboard Harmony and Sight Reading Laboratory (1 Credit)
Functional keyboard skills in sight reading, harmonization, transposition, and improvisation.

MUSC 269 - Beginning Piano Accompanying (1 Credit)
Approaches to specific problems in vocal and instrumental accompanying; supervised accompanying in class. Repeatable for credit.
Prerequisites: MUSC 268.

MUSC 278 - Introduction to Singer’s Diction (2 Credits)
Techniques of pronunciation, phonetics, and international phonetic alphabet as applied to standard vocal repertory. Not auditable.

MUSC 305 - Introduction to Music Industry Studies (1 Credit)
An overview of the music industry. Students will explore a variety of music industry career paths in areas such as arts management, music products and merchandizing, public relations, music production and recording, publishing, online music distribution, and live music event organization.

MUSC 310 - Selected Topics (3 Credits)
Course content varies by title. Intended for nonmajors unless otherwise indicated.
Carolina Core: AIU

MUSC 311A - Upper Division Applied Music/ Flute/ Piccolo (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311B - Upper Division Applied Music/ Oboe/ English Horn (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311C - Upper Division Applied Music/ Clarinet (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311D - Upper Division Applied Music/ Bassoon (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311E - Upper Division Applied Music/ Saxophone (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311F - Upper Division Applied Music/ French Horn (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311G - Upper Division Applied Music/ Trumpet (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311H - Upper Division Applied Music/ Trombone (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311I - Upper Division Applied Music/ Euphonium (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311J - Upper Division Applied Music/ Tuba (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311K - Upper Division Applied Music/ Percussion (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311L - Upper Division Applied Music/ Harpsichord (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311N - Upper Division Applied Music/ Classical Guitar (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311O - Upper Division Applied Music/ Organ (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311P - Upper Division Applied Music/ Piano (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311Q - Upper Division Applied Music/ Harp (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311R - Upper Division Applied Music/ Violin (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311S - Upper Division Applied Music/ Viola (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311T - Upper Division Applied Music/ Violoncello (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311U - Upper Division Applied Music/ Double Bass (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311V - Upper Division Applied Music/ Voice (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311W - Upper Division Applied Music/ Service Playing (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.
MUSC 311Y - Upper Division Applied Music/ Conducting (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 311Z - Upper Division Applied Music/ Jazz (1-3 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not Auditable.

MUSC 316 - Music Composition I (3 Credits)
Introduction to music composition.
Prerequisites: MUSC 115 or equivalent experience.

MUSC 319 - Jazz Theory I (3 Credits)
Introduction to the language of jazz improvisation: rhythms, articulations, style, harmony and melody, forms, simple analysis, chord/scale relationships, ear training and keyboard harmony.
Prerequisites: MUSC 215.

MUSC 320 - Jazz Theory II (3 Credits)
Introduction to the language of jazz improvisation: rhythms, articulations, style, harmony and melody, forms, simple analysis, chord/scale relationships, ear training and keyboard harmony.
Prerequisites: MUSC 321.

MUSC 329 - Jazz Improvisation III (3 Credits)
Application of advanced aural and theoretical skills in selected jazz repertory.
Prerequisites: MUSC 220.

MUSC 330 - Jazz Improvisation IV (3 Credits)
Application of advanced aural and theoretical skills in selected jazz repertory.
Prerequisites: MUSC 220.

MUSC 333 - Basic Choral and Instrumental Conducting (2 Credits)
A course in organizing and conducting choral and instrumental ensembles in which basic conducting technique is acquired.
Prerequisites: MUSC 217.

MUSC 334 - Instrumental Conducting (2 Credits)
Emphasis upon advanced baton technique and its application through practical experience with laboratory ensembles.
Prerequisites: MUSC 333, MUSC 218, MUED 355.

MUSC 335 - Choral Conducting (2 Credits)
Further study of the techniques of choral conducting, principles of group tone production, and interpretative factors.
Prerequisites: MUSC 333, MUSC 218, MUED 355.

MUSC 336 - Introduction to Computer Music (3 Credits)
Techniques of computer-generated music production including aspects of MIDI, digital synthesis, and music programming. Open to students in any discipline. Not Auditable.

MUSC 340 - Jazz Literature (3 Credits)
Study of significant jazz recordings structured to foster familiarity with important jazz stylists, improvisers, composers, and arrangers in the post-swing era of jazz history.

MUSC 353 - History of Western Music I (3 Credits)
Western music from ancient times until ca. 1680, considering musical styles, genres and forms, and the contributions of composers through historical, analytical, and musical perspectives. Subdiscipline, Music - History and Literature.
Prerequisites: MUSC 100L, MUSC 115, MUSC 116.

MUSC 354 - History of Western Music II (3 Credits)
Western music from ca. 1680 until ca. 1860, considering musical styles, genre and forms, and the contributions of composers through historical, analytical, and musical perspectives. Subdiscipline, Music - History and Literature.
Prerequisites: MUSC 353.

MUSC 365 - An Introduction to Audio Recording Techniques (3 Credits)
Basic acoustics; miking techniques; analog tape: recording, editing, mixing and duplication; signal processing.

MUSC 399 - Independent Study (1-3 Credits)
Contract approved by instructor, advisor and department chair is required for undergraduate students. Not auditable.

Graduation with Leadership Distinction: GLD: Research

MUSC 410 - Vocal Coaching (1-2 Credits)
A study of stylistic, linguistic, and other performance issues in solo operatic, oratorio, and recital repertoire for singers. Not auditable.

MUSC 411A - Upper Division Applied Music--Performance Track/ Flute/ Piccolo (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411B - Upper Division Applied Music--Performance Track/ Oboe/ English Horn (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411C - Upper Division Applied Music--Performance Track/ Clarinet (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411D - Upper Division Applied Music--Performance Track/ Bassoon (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411E - Upper Division Applied Music--Performance Track/ Saxophone (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411F - Upper Division Applied Music--Performance Track/ French Horn (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411G - Upper Division Applied Music--Performance Track/ Trumpet (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411H - Upper Division Applied Music--Performance Track/ Trombone (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411I - Upper Division Applied Music--Performance Track/ Euphonium (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411J - Upper Division Applied Music--Performance Track/ Tuba (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.
MUSC 411K - Upper Division Applied Music--Performance Track/ Percussion (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411L - Upper Division Applied Music--Performance Track/ Harpsichord (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411N - Upper Division Applied Music--Performance Track/ Classical Guitar (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411O - Upper Division Applied Music--Performance Track/ Organ (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411P - Upper Division Applied Music--Performance Track/ Piano (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411Q - Upper Division Applied Music--Performance Track/ Harp (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411R - Upper Division Applied Music--Performance Track/ Violin (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411S - Upper Division Applied Music--Performance Track/ Viola (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411T - Upper Division Applied Music--Performance Track/ Violoncello (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411U - Upper Division Applied Music--Performance Track/ Double Bass (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411V - Upper Division Applied Music--Performance Track/ Voice (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411W - Upper Division Applied Music--Performance Track/ Service Playing (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411Y - Upper Division Applied Music--Performance Track/ Conducting (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 411Z - Upper Division Applied Music--Performance Track/ Jazz (2-4 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 416 - Music Composition II (3 Credits)
Intermediate level composition class.
Prerequisites: MUSC 316.

MUSC 450 - Musical Theatre Workshop (2 Credits)
Intensive musical theatre training in areas of song interpretation, musical theatre, dance, voice and acting.
Cross-listed course: DANC 450, THEA 450

MUSC 455 - History of Western Music III (3 Credits)
Western music from ca. 1860 until the present time, considering musical styles, genre and forms, and the contributions of composers through historical, analytical, and musical perspectives. Subdiscipline, Music - History and Literature.
Prerequisites: MUSC 354.

MUSC 498 - Music Practicum (1-3 Credits)
Practicum in performance, teaching, management, and business operations in professional music environments. Can be taken three times for credit for a maximum of six credit hours.

MUSC 500 - Topics in Performance and Literature (1-3 Credits)
Course content varies and will be announced in the schedule of course title.

MUSC 501 - Secondary Applied Music (1-2 Credits)

MUSC 501A - Secondary Applied Music/ Flute/ Piccolo (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501B - Secondary Applied Music/ Oboe/ English Horn (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501C - Secondary Applied Music/ Clarinet (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501D - Secondary Applied Music/ Bassoon (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501E - Secondary Applied Music/ Saxophone (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501F - Secondary Applied Music/ French Horn (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501G - Secondary Applied Music/ Trumpet (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501H - Secondary Applied Music/ Trombone (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.
MUSC 501I - Secondary Applied Music/ Euphonium (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501J - Secondary Applied Music/ Tuba (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501K - Secondary Applied Music/ Percussion (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501L - Secondary Applied Music/ Harpsichord (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501N - Secondary Applied Music/ Classical Guitar (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501O - Secondary Applied Music/ Organ (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501P - Secondary Applied Music/ Piano (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501Q - Secondary Applied Music/ Harp (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501R - Secondary Applied Music/ Violin (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501S - Secondary Applied Music/ Viola (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501T - Secondary Applied Music/ Violoncello (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501U - Secondary Applied Music/ Double Bass (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501V - Secondary Applied Music/ Voice (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501W - Secondary Applied Music/ Service Playing (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501Y - Secondary Applied Music/ Conducting (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 501Z - Secondary Applied Music/ Jazz (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 505 - Violin Scales and Technique (2 Credits)
Improving and refining left hand and right hand technique on the violin through the use of scales.

MUSC 511A - Applied Music/ Flute/ Piccolo (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511B - Applied Music/ Oboe/ English Horn (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511C - Applied Music/ Clarinet (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511D - Applied Music/ Bassoon (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511E - Applied Music/ Saxophone (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511F - Applied Music/ French Horn (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511G - Applied Music/ Trumpet (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511H - Applied Music/ Trombone (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511I - Applied Music/ Euphonium (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511J - Applied Music/ Tuba (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511K - Applied Music/ Percussion (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511L - Applied Music/ Harpsichord (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511N - Applied Music/ Classical Guitar (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511O - Applied Music/ Organ (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511P - Applied Music/ Piano (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511Q - Applied Music/ Harp (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511R - Applied Music/ Violin (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511S - Applied Music/ Viola (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511T - Applied Music/ Violoncello (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.
MUSC 511U - Applied Music/Double Bass (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511V - Applied Music/ Voice (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511W - Applied Music/ Service Playing (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511Y - Applied Music/ Conducting (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 511Z - Applied Music/ Jazz (1-2 Credits)
Course consists of individual instruction including individualized assignments and regular private instruction and review. Not auditable.

MUSC 515 - Orchestration (3 Credits)
Instrumentation and orchestration; possibilities and limitations idiomatic to specific orchestral instruments and ensemble combinations. Not auditable.

MUSC 516 - Composition (3 Credits)
Private study in music composition; may be repeated. Not auditable.
Prerequisites: MUSC 417 or equivalent experience.

MUSC 518 - Form and Analysis (3 Credits)
Examination of fundamental principles of musical forms; analysis of representative tonal works. Not auditable.

MUSC 520 - Studio Arranging and Composition (3 Credits)
Instruction and practice in arranging and composing in various jazz and commercial music styles and genres. May be repeated for credit. Not auditable.

MUSC 523 - Techniques and Materials of Tonal Music (3 Credits)
Study of the techniques and materials of tonal harmony and voice leading with integrated ear-training component. Not auditable.

MUSC 525 - Post-Tonal Music Theory (3 Credits)
Prerequisites: MUSC 216.

MUSC 526 - Analytical Studies (3 Credits)
Analytical techniques applied to music of a particular style, period, or genre. May be repeated for a total of 9 credits. Topic for any semester to be announced by title in the schedule of classes. Not auditable.

MUSC 528 - Seminar in Music Theory (3 Credits)
Advanced studies in music theory. Individual projects. Three meetings per week. Not auditable.

MUSC 529 - Eighteenth-Century Counterpoint (3 Credits)
Analysis and writing in contrapuntal forms with emphasis on the style of Bach. Not auditable.

MUSC 530 - Sixteenth-Century Counterpoint (3 Credits)
Analysis and writing in contrapuntal forms with emphasis on the style of Palestrina. Not auditable.

MUSC 540 - Projects in Computer Music (1-3 Credits)
Directed study in computer-music composition or research. Not auditable.
Prerequisites: MUSC 336.

MUSC 543 - Song Literature (3 Credits)
A study of the development of the solo art song, illustrated by major works of the song writers of all major nationalities. Not auditable.

MUSC 544 - Topics in Music History (3 Credits)
Topic for any semester to be announced by title in the schedule of classes. May be repeated for a total of nine credits. Not auditable.

MUSC 545 - Survey of the Opera (3 Credits)
A survey of the literature of Classic, Romantic, and modern opera, with special attention given to the recognition of the best-known works in each school. Recordings. Open to all students as an elective. Not auditable.

MUSC 548 - Orchestra Literature (3 Credits)

MUSC 549 - Survey of Chamber Music (3 Credits)
The literature for small instrumental ensembles from the Baroque era to the present. The string quartet, divertimento, keyboard-accompanied sonata, etc. Not auditable.

MUSC 555 - World Music (3 Credits)
Rhythms, scales, forms, and instrument types basic to all music. European and American folk song, African and Native American tribal music, Asian music. Not auditable.
Prerequisites: MUSC 110 or equivalent.

Graduation with Leadership Distinction: GLD: Global Learning

MUSC 557 - American Music (3 Credits)
Survey of the music composed in the United States from the colonial period to the present. The influences of European, African, Indian, and South American musical styles. Not auditable.

MUSC 558 - Piano Literature I (3 Credits)
Standard piano literature including major masterpieces from 1700 to 1850. Emphasis on instrumental and stylistic developments, and historical and theoretical background for interpreting the literature of the piano. Not auditable.

MUSC 559 - Piano Literature II (3 Credits)
Standard piano literature including major masterpieces from 1850 to present. Emphasis on instrumental and stylistic developments, and historical and theoretical background for interpreting the literature of the piano. Not auditable.

MUSC 560 - Renaissance Music (3 Credits)
Western music from ca. 1300 to the early Baroque; vocal and instrumental forms, national schools, and performance practices. Not auditable.
Prerequisites: MUSC 353, MUSC 354.

MUSC 561 - Music of the Baroque (3 Credits)
Music from 1600 to 1750, including Monteverdi and Schutz through Handel and Bach. Not auditable.
Prerequisites: MUSC 353, MUSC 354.

MUSC 562 - Music of the Classical Period (3 Credits)
The works of Haydn, Mozart, and Beethoven; the music of their predecessors and contemporaries; the characteristics of the Viennese classical style. Not auditable.
Prerequisites: MUSC 353, MUSC 354.
MUSC 563 - Romantic Music (3 Credits)
The music of the 19th and early 20th centuries; the relationship of music to other arts in works such as Schubert's songs, Wagner's drama, and Berlioz' program symphony. Not auditable. 
Prerequisites: MUSC 353, MUSC 354.

MUSC 564 - Music of the 20th Century (3 Credits)
Music from 1900 to the present; major trends in contemporary music. Not auditable. 
Prerequisites: MUSC 353, MUSC 354.

MUSC 565 - Advanced Audio Recording Techniques (3 Credits)
Multi microphone and ambisonic stereo recording techniques; multi track recording, signal processing and audio production; digital audio. Studio and field experience. Not auditable. 
Prerequisites: MUSC 365.

MUSC 566 - Fundamentals of Sound Use for Media (3 Credits)
Music for use in media; midi applications and synchronization methods using time code; direct-to-hard-disc tapeless audio recording software. Not auditable. 
Prerequisites: MUSC 565.

MUSC 567 - Recording Studio Techniques (3 Credits)
Technology and techniques in the recording studio including use of equalizers, limiters, reverberators, compressors, the mixing console, multi-track recording, microphone techniques, and basic acoustics related to the instrumental and vocal recording process. Not auditable. 
Prerequisites: MUSC 564, MUSC 565.

MUSC 569 - Intermediate Piano Accompanying (3 Credits)
Approaches to specific problems in vocal and instrumental accompanying; supervised accompanying in class. Advanced work for experienced students. Not auditable.

MUSC 570 - Italian and Latin Diction (2 Credits)
Techniques of pronunciation, phonetics, and international phonetic alphabet as applied to standard vocal repertoire, with emphasis on Italian and Latin languages. Not auditable.

MUSC 571 - Digital Audio Technology (3 Credits)
A study of the theory and practice of digital audio technology including analog to digital conversion, digital storage, error correction, transmission, basic digital signal processing, and synchronisation. 
Prerequisites: MUSC 365.

MUSC 572 - Advanced Audio Topics (3 Credits)
A study of the theory and practice of audio topics such as digital signal processing, psychoacoustics, data compression, sound reinforcement systems, wireless transmission, large scale system integration, and emerging technologies.

MUSC 573 - Performance Pedagogy I (3 Credits)
Basic concepts, techniques and materials for teaching a specific instrument. Not auditable.

MUSC 573L - Pedagogy Laboratory (2 Credits)
Directed teaching in laboratory and private settings. Not auditable. 
Corequisite: MUSC 573 or MUSC 574.

Experiential Learning: Experiential Learning Opportunity

MUSC 574 - Performance Pedagogy II (3 Credits)
Basic concepts, techniques and materials for teaching a specific instrument intermediate studies. Not auditable.

MUSC 574L - Pedagogy Laboratory (2 Credits)
Directed teaching in laboratory and private settings. Not auditable. 
Corequisite: MUSC 573 or MUSC 574.

MUSC 575 - Directed Teaching in Pedagogy I (3 Credits)
Supervised teaching in a performance area. Not auditable.

MUSC 575L - Pedagogy Laboratory (2 Credits)
Directed teaching in laboratory and private settings. Not auditable. 
Corequisite: MUSC 575.

MUSC 576 - Teaching in Pedagogy II (3 Credits)
Supervised teaching in a performance area. Course may be repeated for credit (6 credits total). Not auditable.

MUSC 576L - Pedagogy Laboratory (1 Credit)
Practical experience in preparing lesson plans and teaching theory-performance classes for precocile piano students on electronic and acoustical instruments. May be repeated for credit. Not auditable.

MUSC 577 - Vocal Pedagogy (2 Credits)
Anatomy and function of the singing voice with practical application to teaching. Not auditable.

MUSC 578 - German and English Diction (2 Credits)
Techniques of pronunciation for singing in German and English. Not auditable. 
Prerequisites: C or better in MUSC 570.

MUSC 579 - French Diction (2 Credits)
Techniques of pronunciation for singing in French. Not auditable. 
Prerequisites: C or better in MUSC 570.

MUSC 580 - Music & Arts Entrepreneurship (3 Credits)
Entrepreneurial skills and context for arts-based careers and business ventures. Students develop arts projects related to their interests. 
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MUSC 581 - The Alexander Technique (2 Credits)
Theoretical/experimental exploration of major body systems and developmental movements to bring more articulation to the body and more awareness and physical ease in performance. For music and education students. Not auditable.

MUSC 582 - Music and Money (3 Credits)
A survey of the for-profit and non-profit music economies and the broader policy that drives these economies. Restricted to Music majors.

MUSC 583 - Music and Worship (3 Credits)
The selection and leadership of music in the church service; music for the rural church; selecting and directing anthems and service music for the nonprofessional church choir; the transition from psalmody to hymnody in the 18th century; the Anglican Chant and the Lutheran Chorale. Not auditable.

MUSC 584 - Workshop in Music (1-3 Credits)
Selected topics in music. May be repeated as topic varies. Not auditable.

MUSC 585 - Organ Literature I (3 Credits)
Organ literature and registration from antiquity to 1750. Not auditable.

MUSC 586 - Organ Literature II (3 Credits)
Organ literature and registration 1750 to the present. Not auditable.

MUSC 587 - Repertories of Lute, Vihuela, and Guitar (3 Credits)
### MUSC 588 - Business of Music (3 Credits)

### MUSC 589 - Arts Management (3 Credits)
Management techniques for organizations with a musical component such as: orchestra, opera, ballet, artist series. Not auditable.

### MUSC 590 - Seminar in Music Entrepreneurship (3 Credits)
Analyses of music businesses through the use of case studies. Restricted to Music majors.
Prerequisites: MUSC 582, MKTG 350.

### MUSC 591 - Music Leadership Practicum (3 Credits)
A practicum to design and execute an entrepreneurial music leadership project in Columbia, South Carolina. Restricted to Music majors.
Prerequisites: MUSC 590.

**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

### MUSC 592 - 21st Century Musician (3 Credits)
Issues confronting the professional performing musician. Topics will include performance-based income models and opportunities, program development, and promotional and supporting materials. Restricted to School of Music students.

### MUSC 593 - Arts Marketing (3 Credits)
Arts marketing program challenges, arts organizations, building the successful private studio, marketing plans, social media and guerilla marketing, and market research.

### MUSC 594 - Independent Music Teaching Business (3 Credits)
A study of all aspects of the creation and maintenance of a viable independent music teaching business. Restricted to School of Music students.

### MUSC 595 - Community Engagement Through Music (2 Credits)
Community engagement as it relates to music, with a focus on developing practical skills in creating engaging, interactive performances for various audiences.
Experiential Learning: Experiential Learning Opportunity

### MUSC 599 - Music Business Internship (1-3 Credits)
Supervised work experience as approved by area program director. May be repeated up to 6 credits. Not auditable.
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Internships

## Music Education (MUED)

### MUED 104 - Secondary Strings (1 Credit)
MUED 104A-violin; MUED 104B-viola; MUED 104C-cello; MUED 104D-string bass; MUED 104P-guitar. Fundamentals of playing and teaching string instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, tone production, bowing, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 104A - Secondary Strings-Violin (1 Credit)
Secondary Strings-Violin. Fundamentals of playing and teaching string instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, tone production, bowing, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 104B - Secondary Strings-Viola (1 Credit)
Secondary Strings-Viola. Fundamentals of playing and teaching string instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, tone production, bowing, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 104C - Secondary Strings-Cello (1 Credit)
Secondary Strings-Cello. Fundamentals of playing and teaching string instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, tone production, bowing, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 104D - Secondary Strings-String Bass (1 Credit)
Secondary Strings-String Bass. Fundamentals of playing and teaching string instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, tone production, bowing, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 104P - Secondary Strings-Guitar (1 Credit)
Secondary Strings-Guitar. Fundamentals of playing and teaching string instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, tone production, bowing, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 105A - Secondary Woodwinds-Flute (1 Credit)
Secondary Woodwinds - Flute. Fundamentals of playing and teaching woodwind instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 105B - Secondary Woodwinds-Oboe (1 Credit)
Secondary Woodwinds - Oboe. Fundamentals of playing and teaching woodwind instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 105C - Secondary Woodwinds-Clarinet (1 Credit)
Secondary Woodwinds - Clarinet. Fundamentals of playing and teaching woodwind instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

### MUED 105D - Secondary Woodwinds-Bassoon (1 Credit)
Secondary Woodwinds - Bassoon. Fundamentals of playing and teaching woodwind instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.
MUED 105P - Secondary Woodwinds - Saxophone (1 Credit)
Secondary Woodwinds - Saxophone. Fundamentals of playing and teaching woodwind instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

MUED 106A - Secondary Brass - Trumpet (1 Credit)
Secondary Brass - Trumpet. Fundamentals of playing and teaching brass instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

MUED 106B - Secondary Brass - French Horn (1 Credit)
Secondary Brass - French Horn. Fundamentals of playing and teaching brass instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

MUED 106C - Secondary Brass - Trombone (1 Credit)
Secondary Brass - Trombone. Fundamentals of playing and teaching brass instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

MUED 106D - Secondary Brass - Tuba Euphonium (1 Credit)
Secondary Brass - Tuba Euphonium. Fundamentals of playing and teaching brass instruments in a homogeneous class. Special study of problems unique to the instrument relating to care and repair, embouchure, tone production, articulation, fingering, intonation, and teaching materials. One class meeting per week. May be repeated for credit.

MUED 107 - Classroom Instruments (1 Credit)
Class instruction in guitar, recorder, non-pitched and pitched percussion, with emphasis on the development of performance skills, the understanding of pedagogical techniques and materials, and the ability to play and teach these instruments in a group setting.

MUED 155 - Group Piano (2 Credits)
A course for beginning piano students meeting in groups. Emphasis on music reading and elementary techniques. Two meetings and two laboratory periods a week. Repeatable once for credit.

MUED 156 - Group Piano (2 Credits)
A course for beginning piano students meeting in groups. Emphasis on music reading and elementary techniques. Two meetings and two laboratory periods a week. Repeatable once for credit.

MUED 156 - Class Voice (Basic) (2 Credits)
Elementary courses in singing in which both group and individual techniques are employed. Study of voice production and principles of singing.

MUED 166 - Class Voice (Basic) (2 Credits)
Elementary courses in singing in which both group and individual techniques are employed. Study of voice production and principles of singing.

MUED 200 - Music Education Practicum (1 Credit)
Practicum experiences in various types of public school music settings. Seminars and group discussions included. Pass-Fail credit.

MUED 255 - Class Voice (Intermediate) (2 Credits)
Continued study of the principles of singing and song repertoire.

MUED 266 - Class Voice (Intermediate) (2 Credits)
Continued study of the principles of singing and song repertoire.

MUED 333L - Choral Literature Lab I (1 Credit)
Practical application of choral conducting skills and rehearsal techniques with choral literature.

MUED 335L - Choral Literature Lab II (1 Credit)
Continued study of choral conducting skills and rehearsal techniques with choral literature.

MUED 355 - Advanced Group Piano (2 Credits)
Group piano for music education students emphasizing choral music. Opportunities for accompanying instrumentalists, vocalists, and choral groups. Repeatable once for credit.

MUED 356 - Advanced Group Piano (2 Credits)
Group piano for music education students emphasizing choral music. Opportunities for accompanying instrumentalists, vocalists, and choral groups. Repeatable once for credit.

MUED 357 - Wind Pedagogy I (2 Credits)
Fundamentals of playing and teaching wind instruments in a heterogeneous class. Study of basic principles regarding embouchure, tone production, articulation, fingering, and teaching materials.

MUED 358 - Strings (2 Credits)
Fundamentals of playing and teaching string instruments in a heterogeneous class. Problems unique to each instrument relating to care and repair, tone production, bowing, fingering, and teaching materials.

MUED 359 - Instrumental Techniques for Choral Majors (2 Credits)
Techniques for leading an instrumental or mixed choral/instrumental ensemble. Instrumental tone, maintenance, score-reading skills, transposition, and rehearsal methods. Not auditable.

MUED 360 - Percussion Techniques (2 Credits)
Fundamentals of playing and teaching percussion instruments. Special study of problems unique to each percussion instrument and related teaching materials.

MUED 360P - Percussion Practicum (1 Credit)
Practicum experiences teaching percussion in various types of school and community music settings.

MUED 454 - Music for Young Children (3 Credits)
Examination and practical application of methods, techniques, and materials for teaching music, Pre-K to Grade 5.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Internships

MUED 460 - Band Literature and Materials (1 Credit)
A study of teaching materials, solo- and small-ensemble literature, and full band ensemble literature appropriate for grades 5-12.
MUED 461 - Jazz/Pop Styles and Improvisation (1 Credit)  
A study of the essential elements in jazz and popular music. Familiarization and practice with materials and methods of teaching improvisation and jazz performance.

MUED 462 - Technology for Music Teachers (1 Credit)  
Familiarization with computer software and hardware for the teaching of music and administration of music programs.

MUED 465 - General Music in Elementary Schools (2 Credits)  
Discussion of sequential music development; implementation of methods, techniques, and materials for teaching music in grades K-5.  
Prerequisites: C or better in MUED 200.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

MUED 465P - Practicum in Elementary Music (1 Credit)  
Practical application of elementary methods and techniques studied in school settings.  
Corequisite: MUED 465.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

MUED 466 - General Music in Secondary Schools (2 Credits)  
Middle-school and high-school general music education philosophy, teaching techniques, music objectives, curriculum development, administration, facilities, and equipment.  
Prerequisites: EDUC 300.

MUED 467 - Choral Methods and Materials (3 Credits)  
Procedures and materials for choral instruction applicable to elementary, middle-school, and high-school choruses; basic concepts of choral tone and vocal development.  
Prerequisites: C or better in each of MUSC 216, MUED 200 and MUED 356.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

MUED 467P - Practicum in Choral Music (1 Credit)  
Practical application of choral methods and techniques in school settings. Not auditable.  
Corequisite: MUED 467.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

MUED 469 - Marching Band Techniques (2 Credits)  
Fundamentals of marching, maneuvering, and formations; special features such as drum majors and auxiliary units; discussion and planning of halftime shows.

MUED 477 - Directed Teaching (Music) (12 Credits)  
A clinical field experience in the public school setting. Note: Prior to enrolling in MUED 477, students must complete the following: 1) Admission to the Professional Program, and 2) All MUED courses, and conducting courses are required for the student's specific degree track. Courses must be passed with Grade of "C" or better. Students are strongly encouraged to complete all MUSC courses prior to the student teaching semester for optimum preparation for the pre-service internship. No additional course work may be taken during the Directed Teaching semester without permission of the School of Music Undergraduate Director. Restricted to seniors. Special Permissions: Department  
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

MUED 533 - Methods for String Instruction I (2 Credits)  
Fundamentals of teaching orchestral stringed instruments in school string and orchestra classes. Emphasis on sequential instruction, materials, and classroom management.  
Prerequisites: C or better in both MUED 104 and MUED 200.

Corequisite: MUED 533P.

MUED 533P - Practicum in Methods of String Instruction I (1 Credit)  
Practical application of string methods and materials in public and community school settings. Not auditable.  
Corequisite: MUED 533.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

MUED 534 - Methods of String Instruction II (2 Credits)  
Continued study of methods, materials, and concepts of teaching orchestral stringed instruments in school string and orchestra classes. Emphasis on rehearsal techniques and curricula.  
Prerequisites: MUED 533, MUSC 101.

Corequisite: MUED 534P.

MUED 534P - Practicum in Methods of String Instruction II (1 Credit)  
Practical application of string methods and materials in public and community school settings. Not auditable.  
Corequisite: MUED 534.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

MUED 551 - The Middle School Band (2 Credits)  
Study of teaching materials, methods, literature, and educational practices used in middle school band settings.  
Prerequisites: C or better in each of MUED 105, MUED 106, and MUED 200.

MUED 552 - The High School Band (2 Credits)  
Study of teaching materials, methods, literature, and educational practices used in high school band settings.  
Prerequisites: MUED 551.

MUED 554 - Workshop in Music Education (1-3 Credits)  
Selected topics in music education. May be repeated as the topic varies. Credits 1-3 per registration; 12 maximum.

MUED 555 - Integrating Music into the Elementary Classroom (3 Credits)  
Develop activities and learning plans that integrate music into language arts, math, science, social studies, ELA, and learning for students with special needs. Apply those lessons in practicums with children.

MUED 557 - Wind Pedagogy II (2 Credits)  
Continued study of the issues in playing and teaching wind instruments in a heterogenous class. Special study of problems unique to each woodwind and brass instrument regarding fingering and intonation.  
Prerequisites: MUED 357 or admission to MAT (music) program.

MUED 558 - Arranging for the Marching Band (2 Credits)  
Instruction and practice in arranging music for the marching band.

MUED 564 - String Instrument Pedagogy (2 Credits)  
Principles and practices in teaching string instruments, including Suzuki and Rolland. Emphasis on teaching in the private studio.
MUED 565 - Specialized Elementary Music Methods (2 Credits)
Advanced study of Orff, Kodaly, Dalcroze, and Gordon music learning theories as applied in elementary schools.
Prerequisites: MUED 465.

MUED 568 - Organization and Administration of Music Programs (2 Credits)
Topics include materials and techniques of class teaching, equipment purchase, budgeting, recruiting, public relations, and the music library.
Prerequisites: C or better in MUED 200.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

MUED 568P - Practicum in Instrumental Music (1 Credit)
Practical application of instrumental methods and techniques in school settings. Not auditable.
Corequisite: MUED 568.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

Navy (NAVY)

NAVY 101 - Fundamentals of Naval Science (3 Credits)
The Naval Service with emphasis on the mission, organization, regulation, and components of the Navy and Marine Corps.

NAVY 102 - U.S. Military History (3 Credits)
A historical survey on the importance of military doctrine and the many roles of the United States Military covering from the American Revolution to present day. HIST 468 or ARMY 406 may be taken in lieu of this course to meet the Naval ROTC History requirement.

NAVY 111 - Naval Military Laboratory (0 Credits)
Military drill, cruise preparation, customs, traditions, and special areas of knowledge required of commissioned officers in the Navy and Marine Corps. Pass/Fail grading.

NAVY 201 - Naval Ships Systems I (3 Credits)

NAVY 202 - Naval Ships Systems II (3 Credits)
Fire control systems, weapons types, capabilities, and limitations. Physical aspects of radar and underwater sound for target acquisition, threat analysis, tracking, weapons selection, delivery, and guidance. Explosives, fusing, and naval ordnance.

NAVY 301 - Navigation/Naval Operations I (4 Credits)
Navigating and celestial navigation theory, principles, and procedures. Tides, current, weather, use of navigational instruments and equipments, and practicum. Laboratory required.

NAVY 301L - Navigation/Naval Operations Lab I (0 Credits)
Laboratory work in piloting and celestial navigation to complement Naval Science 301. One hour per week.

NAVY 302 - Navigation/Naval Operations II (4 Credits)
International and Inland Rules of the Road; relative motion-vector analysis; ship handling, employment, tactics, and afloat communications; and operations analysis. Laboratory required.

NAVY 302L - Navigation/Naval Operations II Lab (0 Credits)
Laboratory work in maneuvering board (vector analysis) and Rules of the Road to complement Naval Science 302. One hour per week.

NAVY 303 - Evolution of the Art of War (3 Credits)
A survey of military history emphasizing principles of warfare, strategy, and tactics, and significant military leaders and organizations.

NAVY 401 - Naval Leadership and Management I (3 Credits)
Theory and principles of management, focusing on the officer-manager as an organizational decision maker. Includes interpersonal skills; behavior factors; group dynamics.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

NAVY 402 - Naval Leadership and Ethics (3 Credits)
Integration of professional military competencies and qualities of effective leadership with emphasis on moral and ethical responsibilities, accountability; communications, and military law for the junior officer.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

NAVY 403 - Fundamentals of Maneuver Warfare (3 Credits)
The history of Maneuver Warfare emphasizing doctrine and techniques while enabling students to become critical thinkers and better prepare them for future service.

Graduation with Leadership Distinction: ENG: Academic and Civic Engagement Leadership Experiences

Nursing (LANU)

LANU 104 - Nursing Care Management I (4 Credits)
This course focuses on the knowledge, skills, and abilities that are fundamental to nursing practice with application in acute or extended care settings.
Prerequisites: Admission to the nursing program
Corequisite: BIOL 243, BIOL 243L; ENGL 101; LANU 206, LANU 106

LANU 106 - Pharmacologic Basics (2 Credits)
This introductory course outlines the basic concepts of pharmaceutics, pharmacokinetics, pharmacodynamics, and pharmacotherapeutics. The process of clinical calculations is introduced, as well as the major drug classifications.
Prerequisites: Admission to the nursing program; LANU 159, LANU 211
Corequisite: BIOL 243, BIOL 243L; ENGL 101, ENGL 102; LANU 104, LANU 206

LANU 159 - Nurse Care Management II (6 Credits)
Focuses on the delivery of nursing care to an increasing number of individuals experiencing health problems emphasizing selected physiological systems.
Prerequisites: LANU 104, LANU 106, LANU 206
Corequisite: BIOL 244, BIOL 244L; PSYC 101; LANU 211

LANU 206 - Clinical Skills Application (2 Credits)
Involves the application of knowledge, skills, and abilities in a clinical setting.
Prerequisites: Admission to the nursing program
Corequisite: BIOL 243, BIOL 243L; ENGL 101; LANU 104, LANU 106

LANU 209 - Nursing Management III (5 Credits)
Focuses on the delivery of nursing care to an increasing number of individuals experiencing health problems emphasizing selected physiological systems.
Prerequisites: LANU 159, LANU 211
Corequisite: ENGL 102
LANU 211 - Care of the Childbearing Family (4 Credits)
This course facilitates the application of the nursing process to assist in meeting the needs of the childbearing and child-rearing family. Focus is on both normal and abnormal aspects.
Prerequisites: LANU 104, LANU 106, LANU 206
Corequisite: LANU 159; PSYC 101; BIOL 244, BIOL 244L

LANU 214 - Mental Health Nursing (4 Credits)
This course facilitates the utilization of the nursing process to assist in meeting the needs of patients with common mental health problems. Focus is on the dynamics of human behavior, ranging from normal to extreme.
Prerequisites: LANU 229
Corequisite: LANU 219, humanities/fine arts elective, elective

LANU 219 - Nursing Management and Leadership (4 Credits)
This course prepares the student for the professional nursing role through the introduction of management skills required to care for small groups of individuals and to function as a leader of a nursing team.
Prerequisites: LANU 214

LANU 229 - Nursing Care Management IV (6 Credits)
This course focuses on the delivery of nursing care to clients throughout the lifespan who are experiencing complex, multi-system health problems.
Prerequisites: LANU 209
Corequisite: BIOL 330, BIOL 330L; MATH 111

**Nursing (NURS)**

NURS 112 - Introduction to the Profession of Nursing: Focus on Roles and Opportunities (1 Credit)
The focus of this course is on various roles that nurses can fill as well as the sites for practice. A major focus is for students to develop an appreciation of the nursing profession, while at the same time exposing them to the challenges in our present health care system.

NURS 201 - Introduction to Human Genetics for Health Care Professionals (3 Credits)
A comprehensive introduction to the field of human genetics designed to raise nursing students’ awareness of the role of genetics in all areas of medical care. A clinical approach and emphasis.

NURS 210 - Facilitative Communication (3 Credits)
Examination of communication theory and development of communication skills. Focuses on non-directive and directive interviewing techniques with dyads, small groups, and families.
Prerequisites: ENGL 101.

NURS 212 - Evolution of Nursing Science (2 Credits)
Historical imperatives for nursing are explored to aid in understanding the scientific base of nursing. Internal and external factors influencing the evolution of nursing as a profession, science, art, and practice discipline are discussed. Sophomore nursing students.

NURS 216 - Biophysical Pathology (3 Credits)
Pathology associated with biophysical alterations.
Prerequisites: CHEM 102, BIOL 243 and BIOL 244 or EXSC 224 and accompanying labs.

NURS 220 - Clinical Nutrition (3 Credits)
Principles of normal and therapeutic nutrition, and the role of the nurse in nutritional care.
Prerequisites: NURS 216.

NURS 226 - Socio-Cultural Variations in Health and Illness (3 Credits)
Diverse health care belief systems and how they influence human responses to health and illness. Focus on African-American and other cultural groups.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

NURS 250 - Nursing Science in Professional Practice (3 Credits)
Nursing as a science; selected concepts of self-care and communication within the context of nursing science. Transition course for registered nurse students only. Credit received for NURS 110 and NURS 210 upon completion.

NURS 309 - Nursing Health Assessment (3 Credits)
Cognitive skills, psychomotor skills and technologies necessary to perform health assessment.
Prerequisite or Corequisite: NURS 250.

NURS 311 - Introduction to Health Assessment (3 Credits)
Cognitive skills, psychomotor skills, and technologies necessary to perform health assessment. Laboratory required.
Corequisite: NURS 312, NURS 314.

NURS 312 - Foundations of Nursing Practice (5 Credits)
Cognitive, affective, and psychomotor skills and technologies necessary to nursing intervention. Practicum required.
Corequisite: NURS 311, NURS 314.

NURS 313 - Nursing Care of the Older Adult (3 Credits)
Nursing care focusing on health promotion, restoration, and support of older adults. Restricted to upper division nursing students.
Prerequisites: NURS 311 and NURS 312 for Generic BSN students; NURS 250 for RN-BSN students.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

NURS 314 - Clinical Reasoning in Nursing Practice (2 Credits)
The process of making clinical judgments.
Corequisite: NURS 311, NURS 312.

NURS 318 - Application of Pathophysiology and Pharmacology in Nursing (3 Credits)
Concepts of disease processes in the human body and related pharmacologic interventions. Focus on nursing assessments and interventions.
Prerequisites: NURS 250, BIOL 250.

NURS 324 - Chemical Therapeutics (3 Credits)
Pharmacology with an emphasis on clinical applications within the context of the nursing process and prioritization of needs.
Prerequisites: CHEM 102, NURS 216.
Corequisite: NURS 311, NURS 312, NURS 313, and NURS 314.

NURS 327 - Perioperative Nursing (3 Credits)
Perioperative care of clients with common, recurring nursing problems requiring surgical intervention. Perioperative practicum required.
Prerequisites: NURS 322, NURS 323.
NURS 398 - Selected Topics (3 Credits)
Topics of special interest in nursing. Individual topics to be announced in schedule by title.

NURS 399 - Independent Study (1-6 Credits)
Number of credits to be contracted with instructor at the beginning of the course. Contract approved by instructor, advisor and department head is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

NURS 400 - Evidence-based Nursing Practice (3 Credits)
Introduction to the language and process of research and the use of best practices to guide nursing practice.
Prerequisites: STAT 110 and NURS 314 for Generic BSN students; NURS 250 for RN-BSN students.

Graduation with Leadership Distinction: GLD: Research

NURS 406 - Critical Care Nursing of Adults (3 Credits)
Introduction to nursing of the critically ill adult. Application in selected clinical settings.
Prerequisites: NURS 323 or equivalent.

NURS 411 - Psychiatric/Mental Health Nursing (5 Credits)
Nursing care of clients experiencing psychiatric/mental health problems, with focus on promotion, restoration, and support. Practicum required.
Prerequisites: NURS 311, NURS 312, NURS 314, and NURS 324.

Prerequisite or Corequisite: NURS 412.

NURS 412 - Acute Care Nursing of Adults I (5 Credits)
Nursing care of acutely ill adults in a variety of settings. Practicum required.
Prerequisites: NURS 311, NURS 312, NURS 314, and NURS 324.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

NURS 420 - Emerging Issues in Health Care (3 Credits)
Examination of emerging health-related issues and their relevance to professional nursing practice.
Prerequisites: NURS 250.

NURS 422 - Acute Care Nursing of Adults II (5 Credits)
Nursing care of acutely ill adults in a variety of settings. Practicum required.
Prerequisites: NURS 324 and NURS 412.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

NURS 424 - Maternal/Newborn Nursing (4 Credits)
Nursing care of childbearing women and their neonates and families. Focus on uncomplicated pregnancy and birthing processes. Practicum required.
Prerequisites: NURS 311, NURS 312, NURS 314, and NURS 324.

Corequisite: NURS 425.

Prerequisite or Corequisite: NURS 412.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

NURS 425 - Nursing of Children and Families (4 Credits)
Nursing care of families throughout their childrearing years, focusing on health promotion, restoration, and support of their children. Practicum required.
Prerequisites: NURS 311, NURS 312, NURS 314, and NURS 324.

Corequisite: NURS 424.

Prerequisite or Corequisite: NURS 412.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

NURS 428 - Nursing Leadership and Management (4 Credits)
Concepts and principles of leadership, management, policy, and politics in delivering patient care within health care systems and the implications related to nursing practice. Relationships between policies and politics in the health field and the impact on patient care and access to healthcare.
Prerequisites: NURS 250 for RN-BSN students.

Corequisite: NURS 435 for pre-licensure BSN students only.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

NURS 431 - Population Health Nursing (3-4 Credits)
Concepts and principles of aggregate and community health.
Prerequisites: NURS 250 RN-BSN students.

Graduation with Leadership Distinction: GLD: Community Service

NURS 434 - Community-Based Clinical Practicum for RNs (3 Credits)
Community-based application and synthesis of professional nursing roles and responsibilities with selected populations determined to be at risk for a variety of health-related problems. Restricted to: RN-BSN program students Special Permission required: By instructor

NURS 435 - Senior Nursing Capstone Practicum (8 Credits)
Clinical experiences in managing patient care and leading the healthcare team in a variety of agencies. Practicum required.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

NURS 491 - Community and Environmental Assessment (1 Credit)
Comprehensive assessment and analysis of a community and its environment within the framework of community health nursing. Practicum only.

Corequisite: NURS 708.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

NURS 504 - Emergency Preparedness: Implications for Health Care Professionals (3 Credits)
Principles of emergency preparedness with implications for health care at the local, regional, national, and global levels.

NURS 505 - Caring for Limited English Proficient Patients (3 Credits)
Principles and policies for clinical practice with Limited English Proficient patients.

NURS 506 - Special Topics in International Nursing (3 Credits)
Experiential field study to examine international nursing in another country. Course content varies and will be announced in the schedule of courses by title. May be repeated for credit.
Prerequisites: NURS 312.
NURS 534 - The Rural Interdisciplinary Practicum (1-6 Credits)
Students live and practice in a rural, interdisciplinary environment and participate in an organized community-based health care activity. Contract approved by instructor and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

NURS 541 - Issues in Women's Health (3 Credits)
An exploration of women's health and health care concerns from multiple perspectives.
Cross-listed course: WGST 541
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

NURS 553 - In-Service Education (3 Credits)
Organizing, developing, implementing, and evaluating the in-service education program.

NURS 571 - Special Topics (3 Credits)
Topics vary by title, consent of instructor.

Palmetto College (PCAM)

PCAM 101 - Nursing Concepts, Communication, and Calculations (2 Credits)
Introduction to concepts essential to basic nursing practice. Nursing's historical evolution through theory, concept and role development will be presented. Overview of medical terminology and calculations provided as rudimentary skills that promote effective interpretation and communication within health disciplines, and calculations required to administer pharmaceutical agents.

PCAM 104 - Foundations of Composition (3 Credits)
A course in writing skills with practice in composing essays, including intensive review of grammar, punctuation, and mechanics.

PCAM 105 - Contemporary College Mathematics (3 Credits)
Linear and quadratic equations and models, functions, exponential models, logarithms, systems of equations, fundamentals of probability and statistics.

PCAM 106 - Foundations of College Algebra (3 Credits)
Operations on real numbers, linear equations and inequalities, quadratic equations, factoring, absolute value equations, exponential and radical expressions, graphs, and functions. Additional topics may include math study skills, logarithms, exponential functions, probability, statistics, systems of equations, polynomial division, and mathematical modeling.
Prerequisites: C or better in PCAM 106 students must pass the math placement test (MPT) with a minimum score of MB1 or MA2.

PCAM 141 - Introduction to Computer Keyboarding (3 Credits)
Keyboarding using the touch method, inputting, editing, and printing. Designed for students without keyboarding skills. Elective credit only. This course might not apply toward associate degrees or Columbia baccalaureate degrees.

PCAM 151 - Computer Literacy and Applications (3 Credits)

PCAM 201 - Introduction to Internet Research (3 Credits)
Developing the means by which students may learn to access the Internet through mainframe and PC connections to accomplish specific research needs. This course might not apply toward associate degrees or Columbia baccalaureate degrees.
Prerequisites: CSCE 101.

PCAM 205 - Foundations of Leadership (3 Credits)
This course combines leadership theory with practical application, equipping students with the knowledge and skills needed to work more effectively with people, become better leaders, and reach their professional goals.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PCAM 299 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and academic dean is required for undergraduate studies. May be taken for elective credit only. May be repeated for up to 6 credits hours.

Palmetto Programs (PALM)

PALM 401 - Palmetto Senior Capstone Experience (3 Credits)
Integration of interdisciplinary program of study and general education; intensive writing and research project.
Prerequisites: PALM 493 and PALM 494 or PALM 495.

PALM 493 - South Carolina Studies (3 Credits)
Reading and writing about South Carolina from the perspective of multiple disciplines, incorporating elements of the student's major and cognate.

PALM 494 - Internship (3 Credits)
Supervised immersion and exploration in a field related to the major, with a career, cultural, or community focus.
Prerequisites: C or better in PALM 493.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

PALM 495 - Service-Learning (3 Credits)
An exploration of theories of service-learning with application of practical solutions to meet community needs.
Prerequisites: C or better in PALM 493.

Experiential Learning: Experiential Learning Opportunity

Patholgy & Microbiology (PAMB)

PAMB 620 - M-IV Pathology - RMH (2-12 Credits)

Philosophy (PHIL)

PHIL 101 - Special Topics in Philosophy (3 Credits)
Topics selected by the instructor for specialized study. Course content varies and will be announced in the schedule of classes by title.

PHIL 102 - Introduction to Philosophy (3 Credits)
An introduction to the main problems of philosophy and its methods of inquiry, analysis, and criticism. Works of important philosophers will be read. Honors section offered.

PHIL 103 - Special Topics in Ethics and Values (3 Credits)
A study of the moral principles of conduct and the basic concepts underlying these principles, such as good, evil, right, wrong, justice, value, duty, and obligation, as they relate to specific issues or areas of life. May be repeated as content varies by title.
Carolina Core: VSR
PHIL 111 - Introduction to Logic II (3 Credits)
Philosophical foundations of inductive inference, including probability, statistics, and decision theory; application of the methods and results of inductive inference to philosophical problems such as the problem of rationality, epistemology, theory confirmation, social and political philosophy.
Prerequisites: At least one of the following: PSYC 227; SOCY 220; STAT 110, STAT 112, STAT 201, STAT 205, or STAT 206; MGSC 291.

Carolina Core: ARP

PHIL 114 - Introduction to Formal Logic I (3 Credits)
Formal logic, including foundational logical concepts, syntax and semantics of first-order logic; derivations; applications.
Carolina Core: ARP

PHIL 115 - Introduction to Formal Logic II (3 Credits)
Intermediate topics in predicate logic, including second-order predicate logic; meta-theory, including soundness and completeness; introduction to non-classical logic
Prerequisites: C or higher in PHIL114 or PHIL 110, or a department-approved equivalent.

Carolina Core: ARP

PHIL 210 - Philosophical Themes in Literature (3 Credits)
Selected philosophical problems as they are presented in imaginative and theoretical literature. Works of fiction and philosophical treatments of issues involved in them will be read and discussed.

PHIL 211 - Contemporary Moral Issues (3 Credits)
Moral issues confronting men and women in contemporary society. Topics will vary but may include discussion of problems related to abortion, drugs, euthanasia, war, social engineering, and punishment of criminals.

Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 212 - Images of the Human Person (3 Credits)
Images of the human person in contemporary philosophy, literature, psychology, and religion, and an evaluation of these images as norms for human conduct and social policy. Particular attention may be given to images found in specific philosophical traditions, including existentialism, Marxism, behaviorism, and mysticism.

PHIL 213 - Communicating Moral Issues (3 Credits)
Moral issues confronting men and women in contemporary society and the challenges of communicating effectively about them. Topics will vary but may include access to health care, euthanasia, abortion, same sex marriage and the moral and environmental consequences of eating animals.
Cross-listed course: SPCH 213
Carolina Core: CMS, VSR

PHIL 214 - Science and Pseudo-Science (3 Credits)
Attempts to distinguish science from pseudo-science; inquiry into such cases as astrology, psychoanalysis, and parapsychology.
Graduation with Leadership Distinction: GLD: Research

PHIL 301 - Ancient Philosophy (3 Credits)
An introduction to the work of ancient philosophers, with special emphasis on Plato and Aristotle.
Cross-listed course: CLAS 301

PHIL 302 - Greek and Roman Philosophy after Aristotle (3 Credits)
Problems such as hedonism, providence, belief and evidence, and mysticism, as they appear in the writings of Epicureans, Stoics, Sceptics, and Plotinus.
Cross-listed course: CLAS 302

PHIL 303 - History of Medieval Philosophy (3 Credits)
Major philosophical traditions in the Middle Ages.

PHIL 304 - Seventeenth and Eighteenth-Century Philosophy (3 Credits)
An introduction to Continental and British philosophy running roughly from Descartes through Kant.

PHIL 305 - Nineteenth and Twentieth-Century Philosophy (3 Credits)
An introduction to Continental and British philosophy since Kant through study of the works of representative philosophers. Particular emphasis is placed on the development of Idealism, Marxism, Existentialism and Phenomenology, and analytic philosophy.

PHIL 310 - American Philosophy (3 Credits)
The principal movements of philosophical thought from Colonial times to the present, with special emphasis on the 19th and 20th centuries.

PHIL 311 - Existentialism (3 Credits)
An introduction to existentialist themes in contemporary philosophy, literature, psychology, and religion. The writings of existentialists such as Kierkegaard, Nietzsche, Camus, Sartre, Buber, May, and Binswanger will be read and discussed.

PHIL 312 - Classical Origins of Western Medical Ethics (3 Credits)
Examination of ancient Greek and Roman philosophical, medical, and literary works (in English) as sources for the origins of medical ethics. Priority enrollment for Medical Humanities students.
Cross-listed course: CLAS 360

PHIL 313 - Between Magic and Method: Ancient Medicine (3 Credits)
Introduction to ancient medicine: science and art, theory and practice, healing and predicting. Topics include: Medicine before Hippocrates, Hippocratic medicine, holism, naturalism, medicine, religion and magic, medicine and scientific explanation, Hellenistic medicine and methodology, Galenic medicine.
Cross-listed course: CLAS 361

PHIL 315 - Asian Religious Philosophy (3 Credits)
A historical overview and critical introduction to the philosophical practices of Asian religions; an examination of the basic worldviews, thought frameworks, and foundational questions of the main schools of premodern Asian religious philosophy.
Cross-listed course: RELG 334

PHIL 320 - Ethics (3 Credits)
A study of the moral principles of conduct and the basic concepts underlying these principles, such as good, evil, right, wrong, justice, value, duty, and obligation. The ethical works of influential philosophers are analyzed in terms of these concepts.
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 321 - Medical Ethics (3 Credits)
The concepts of Person and Justice as they relate to biomedical sciences and technologies.
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences
PHIL 322 - Environmental Ethics (3 Credits)
Examination of principles and arguments surrounding moral issues involving the environment.
**Cross-listed course:** ENVR 322
**Carolina Core:** VSR
**Graduation with Leadership Distinction:** GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences, GLD: Research

PHIL 323 - Ethics of Science and Technology (3 Credits)
Role of ethical judgments in directing or curtailing scientific research; case studies from natural and social sciences.
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 324 - Business Ethics (3 Credits)
Ethical problems in business; application to business situations of philosophical theories of individual, corporate, and governmental rights and responsibilities.
**Carolina Core:** VSR
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

PHIL 325 - Engineering Ethics (3 Credits)
An investigation of ethical issues in engineering and engineering-related technology. Topics include whistleblowing, employee/employer relations, environmental issues, issues related to advances in information technology, and privacy.
**Carolina Core:** CMS, VSR
**Graduation with Leadership Distinction:** GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 329 - Law and Religion (3 Credits)
An examination and critical assessment of the philosophical concepts, issues, and questions surrounding the relationship of church and state.

PHIL 330 - Social and Political Philosophy (3 Credits)
An overview of major themes in political philosophy such as the nature of politics, obligation, community, representation, freedom, equality, and justice.
**Cross-listed course:** POLI 300
**Graduation with Leadership Distinction:** GLD: Professional and Civic Engagement Leadership Experiences

PHIL 331 - Crime and Justice (3 Credits)
The fundamental concepts of a criminal justice system and their philosophical bases. Rights, privacy, responsibility, and the problem of justification of state control of private behavior through punishment and therapy.
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy

PHIL 332 - Philosophy of Education (3 Credits)
A critical examination of the theories of education of such philosophers as Plato, Rousseau, Dewey, Newman, and Whitehead. Emphasis is on the development of a philosophy of higher education.

PHIL 333 - Contemporary Marxism and Society (3 Credits)
Recent Marxist-inspired critics of politics, science, technology, art, advertising, and other aspects of cultural life, with comparison both to Marx's philosophical and economic writings and to other types of contemporary criticisms.

PHIL 334 - Feminist Philosophy (3 Credits)
Introduces feminist philosophy and applications to philosophical problems.
**Cross-listed course:** WGST 334
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 335 - Disobedience, Dissent, and Revolution (3 Credits)
This course explores central philosophical issues related to resisting and opposing claimed state authority. Focus will be on classic and modern texts regarding the intentional, ethically-, or politically-motivated violation of law and on the justification of revolution.
**Carolina Core:** VSR

PHIL 340 - Philosophy of Art (3 Credits)
Philosophical problems relating to the arts, with emphasis on questions pertaining to aesthetic experience.

PHIL 341 - Philosophy and Film (3 Credits)
Selected philosophical problems as they are presented in feature and documentary films.

PHIL 350 - Knowledge and Reality (3 Credits)
Examination of skeptical attacks, critical defenses, and philosophical theories of what we know and what is to be taken as ultimate reality.

PHIL 351 - Mind and Nature (3 Credits)
Philosophical theories about the nature of consciousness, the problem of qualia, phenomenal concepts, the explanatory gap hypothesis, higher-order consciousness, prospects for naturalistic accounts of consciousness.

PHIL 352 - Freedom and Human Action (3 Credits)
The principal movements of philosophical thought from Colonial times to the present, with special emphasis on the 19th and 20th centuries.
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy

PHIL 360 - History and Philosophy of Science (3 Credits)
Philosophy and history of science and their interaction from ancient Greece to the present. Emphasis on physics, astronomy, and chemistry.

PHIL 362 - Philosophy of Research Design in Science and Medicine (3 Credits)
A philosophical investigation of research methods used in science and medicine from systematic reviewing and randomized controlled trials to theories of sampling and causal inference.

PHIL 365 - Formal Theories of Rationality and Their Philosophical Implications (3 Credits)
Formal theories of rationality in the context of decision-making and games; uses of these formal theories to address traditional philosophical issues such as rationality, knowledge, choice, social welfare, cooperation, and communication.
**Prerequisites:** C or higher in any course that satisfies the ARP Carolina Core requirement.

PHIL 370 - Special Topics in Philosophy (3 Credits)
Topics selected by the instructor for specialized study. Course content varies and will be announced in the schedule of classes by title.

PHIL 390 - Junior Seminar in Philosophy (3 Credits)
Overview of philosophical theories and debates with attention to skills in discussion and presentation and in preparing and writing a research paper in philosophy. Topics selected by the instructor.
**Graduation with Leadership Distinction:** GLD: Research
PHIL 399 - Independent Study (3-9 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

PHIL 473 - Film Theory (3 Credits)
Theory and criticism of film and media from the 1910s to the present. Considers a range of critical approaches to analyzing what different forms of audio-visual media do to and for the audiences they address and the worlds they depict.
Prerequisites: FILM 240.

PHIL 490 - Senior Seminar in Philosophy (3 Credits)
Review of central topics in philosophy serving as a capstone course for senior majors in philosophy.
Graduation with Leadership Distinction: GLD: Research
Experiential Learning: Experiential Learning Opportunity

PHIL 495 - Senior Thesis (3 Credits)
Directed research resulting in a written thesis. Senior philosophy major or double major, GPA of 3.30, permission of faculty member.
Graduation with Leadership Distinction: GLD: Research

PHIL 501 - British Empiricism (3 Credits)
A historical and critical survey of the British philosophers of experience. Principal concentration is on Locke, Berkeley, and Hume.
Prerequisites: C or better in PHIL 304.

PHIL 502 - Continental Rationalism (3 Credits)
A critical and historical study of the 17th-century European philosophers. The works of Descartes, Spinoza, and Leibniz are emphasized.
Prerequisites: C or better in PHIL 304.

PHIL 503 - Analytic Philosophy (3 Credits)
A critical study of recent and contemporary works in philosophical analysis, and an evaluation of the purposes, methods, and results of this movement.
Prerequisites: C or better on 3 hours in philosophy beyond the 100 level.

PHIL 504 - Phenomenology and Existentialism (3 Credits)
A critical study of some fundamental themes in phenomenology and the philosophy of existence. Emphasis is placed on an intensive study of selected works of such writers as Kierkegaard, Jaspers, Husserl, and Heidegger.
Prerequisites: C or better in PHIL 304 or PHIL 305.

PHIL 505 - Plato (3 Credits)
An intensive study of selected Dialogues by Plato.
Prerequisites: C or better in PHIL 301.

PHIL 506 - Aristotle (3 Credits)
An intensive study of some of the more important of Aristotle's works.
Prerequisites: C or better in PHIL 301.

PHIL 507 - Medieval Philosophy (3 Credits)
A historical and critical study of the works of the leading medieval philosophers.
Prerequisites: C or better in PHIL 303.

PHIL 508 - Hume (3 Credits)
An intensive study of the philosophical writings of Hume, especially A Treatise of Human Nature.
Prerequisites: C or better in PHIL 304.

PHIL 509 - Kant (3 Credits)
An intensive study of the work of Kant, especially the Critique of Pure Reason.
Prerequisites: C or better in PHIL 304.

PHIL 510 - Theory of Knowledge (3 Credits)
An examination of some representative theories of truth, meaning, probability, and perception.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 511 - Symbolic Logic (3 Credits)
A presentation and philosophical examination of the fundamentals of modern symbolic logic.
Prerequisites: C or better in PHIL 115.

PHIL 512 - Philosophy of Science (3 Credits)
A critical examination of methods and concepts of the sciences. Topics include scientific revolutions, the unity of science, experimentation, explanation, and evidence.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 513 - Philosophy of History (3 Credits)
A philosophical examination of historical inquiry. Theories of historical development. The logical problems of historical explanation.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 514 - Ethical Theory (3 Credits)
Survey of recent and historical developments in ethical theory with special emphasis on the meaning of ethical language and the forms of reasoning employed in discussing moral values.
Prerequisites: C or better in PHIL 320.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PHIL 515 - Philosophy of Religion (3 Credits)
A critical study of selected problems in the philosophy of religion. Emphasis is placed on problems relating to the existence of God, religious knowledge, and the language of religion.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 516 - Advanced Aesthetics (3 Credits)
Detailed examination of the literature on aesthetics.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 517 - Philosophy of Language (3 Credits)
An examination of concepts and problems such as meaning, reference, analyticity, definition, and the relation between logic and philosophy.
Prerequisites: C or higher in PHIL 114 or PHIL 511.

Cross-listed course: LING 565

PHIL 518 - Philosophy of the Social Sciences (3 Credits)
The goals of inquiry and problems such as objectivity, reduction, value freedom, and ideology.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 519 - Metaphysics (3 Credits)
Major issues in classical and modern metaphysics. Topics include the idea of first philosophy, being, substance, the problem of universals, essentialism, causation, time and space, and metaphysical method.
Prerequisites: C or better in PHIL 350 or PHIL 351 or PHIL 360.
PHIL 520 - Philosophy of Mind (3 Credits)
The concept of mind, the mind-body problem, emotions and cognition, the possibility of artificial minds, theories of embodied cognition.
Prerequisites: C or better in PHIL 350 or PHIL 351 or PHIL 360.

PHIL 521 - Mathematical Logic (3 Credits)
Axiomatic development of logic and the set-theoretic foundations of mathematics.
Prerequisites: C or better in PHIL 511.

PHIL 522 - Introduction to Semantics (3 Credits)
Introduction to the study of linguistic meaning, including the following topics: meaning, reference, and truth; the connections among language, thought, and reality; word meaning and sentence meaning; possible worlds and modality; thematic roles; meaning and context; presupposition and implicature; speech acts; formal semantics; and cognitive semantics.
Prerequisites: C or better in any of LING 300, LING 301, LING 600, PHIL 114, PHIL 511.

PHIL 523 - Advanced Topics in Logic (3 Credits)
Philosophical problems about logic, the development of philosophical logics, and the problems surrounding them.
Prerequisites: C or better in PHIL 511.

PHIL 524 - Philosophy of Biology (3 Credits)
Examination of major conceptual, theoretical, and methodological issues in biological science. Topics include reductionism, units of selection, adaptationism, relations between evolutionary and developmental biology and between biology and society.
Prerequisites: C or better in 3 hours of Philosophy beyond the 100 level.

PHIL 525 - Hellenistic Philosophy (3 Credits)
Survey of the major schools and trends in Hellenistic philosophy. Epicureans, Stoics, Academic Skeptics. Topics include eudaimonism, hedonism, monism, teleology, and the criterion of truth.
Prerequisites: C or better in PHIL 301 or PHIL 302.

PHIL 526 - Virtues, Acts, and Consequences (3 Credits)
Recent contributions to three central strands of ethical theory: virtue theory, deontology, and utilitarianism; historical roots and recent developments.
Prerequisites: C or better in PHIL 320.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PHIL 527 - Concepts of Evidence (3 Credits)
Systematic approaches to data analysis--Bayesian, Fisherian and decision theoretic--will be critically appraised. Applications of these theories to some problems of inductive logic: the paradoxes of confirmation, the role of simplicity, and the probability of inductive generalizations.
Prerequisites: C or better in PHIL 350 or PHIL 351 or PHIL 360.

PHIL 528 - Readings in Philosophy (3 Credits)
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PHIL 529 - Readings in Philosophy (3 Credits)
Recent theories of distributive justice and their application to such issues as redistribution of wealth, reverse discrimination, and the conflict between liberty and equality. Authors include Rawls, Nozick, Hayek, and Popper.
Prerequisites: C or better in PHIL 320 or PHIL 321 or PHIL 322 or PHIL 330 or PHIL 331.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Global Learning

PHIL 530 - Contemporary European Social Philosophy (3 Credits)
An examination of European social philosophy associated with either the Frankfurt School of Social Research or contemporary French Poststructuralism.
Prerequisites: C or better in 3 hours in philosophy beyond the 100 level.

PHIL 531 - Ecofeminism (3 Credits)
An exploration of the connections between oppression of women and oppression of nature.
Prerequisites: 3 hours in philosophy beyond the 100 level.

Cross-listed course: WGST 535

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PHIL 532 - Social Justice (3 Credits)
Selected contemporary European philosophical movements, their views on language, and their approach to interpretation; hermeneutics, structuralism, poststructuralism.
Prerequisites: C or better in PHIL 511.

PHIL 534 - Renaissance Philosophy (3 Credits)
Humanism (e.g., Petrarch), Platonism (e.g., Pico and Ficino), Aristotelianism (e.g., Pomponazzi), philosophies of nature (e.g., Telesio, Campanella, and Bruno), and Nicholas of Cusa, Erasmus, Montaigne, and Suarez.
Prerequisites: C or better in PHIL 301 or PHIL 302 or PHIL 303.

PHIL 535 - Health Care Ethics (3 Credits)
An exploration of the ethical dimensions of patient care in the clinical setting.
Prerequisites: C or better in PHIL 320 or PHIL 321 or PHIL 322 or PHIL 330 or PHIL 331.

PHIL 598 - Readings in Philosophy (3 Credits)
Prerequisite: 6 hours in philosophy beyond the 100 level.

Physical Education (PEDU)

PEDU 100 - Contemporary Physical Activity (1 Credit)
Development of skills in an identified area. Course content will vary and be announced by title. May be repeated as topics vary.

PEDU 101 - Self-Defense For Women (1 Credit)
Basic knowledge and understanding of the culture and context in which interpersonal violence occurs, the root causes and patterns of behavior within violent relationships, self defense against forcible attacks, making immediate decisions when confronted with an assault, and the procedures necessary after an assault has occurred.

PEDU 102 - Contemporary Physical Activity (1-3 Credits)
Course contact will vary and be announced by title. May be repeated as topics vary.
PEDU 103 - Jogging (1 Credit)
Exercise, lectures, and self-evaluation for weight control and fitness improvement.

PEDU 104 - Personal Fitness and Weight Control (1 Credit)
Advanced techniques for controlling weight and improving fitness through exercise, lectures, and self-evaluation.

PEDU 105 - Weight Training (1 Credit)
Fundamentals of progressive resistance exercise training.

PEDU 106 - Advanced Weight Training (1 Credit)
Advanced techniques.
Prerequisites: PEDU 105.

PEDU 107 - Group Exercise (1 Credit)
Cardio-respiratory fitness, flexibility, muscular strength and endurance, and agility through various group exercise formats while utilizing a variety of equipment.

PEDU 108 - Fitness Swimming (1 Credit)
Individualized physical conditioning through lap swimming and aquatic calisthenics, games, and activities.
Prerequisites: PEDU 140.

PEDU 109 - ROTC Conditioning (1 Credit)
Exercise testing, technique, and leadership, program design and implementation, nutrition, individual and team competitions, and other forms of training.

PEDU 110 - Orientation to Physical Education (1 Credit)
Experiences in a variety of physical-activity areas.

PEDU 111 - Badminton (1 Credit)
Basic strokes and introduction to the history, rules, and strategy of the game.

PEDU 112 - Basketball (1 Credit)
Fundamental skills of game performance. Strategy, rules, and basic offenses and defenses.

PEDU 113 - Bowling (1 Credit)
Fundamental skills and techniques of bowling.

PEDU 114 - Golf (1 Credit)
Basic strokes, rules, and strategy of golf.

PEDU 115 - Gymnastics (1 Credit)
Fundamentals of gymnastics on the trampoline and balance beam; tumbling, parallel bars, rings, and the horse.

PEDU 116 - Handball (1 Credit)
Fundamentals, strategy, and rules of handball.

PEDU 117 - Karate (1 Credit)
Fundamentals.

PEDU 118 - Rugby (1 Credit)
Fundamental skills for game performance.

PEDU 119 - Soccer (1 Credit)
Fundamental skills for game performance; history, rules, and game strategy.

PEDU 120 - Softball (1 Credit)
Fundamental skills for game performance; history, rules, and game strategy.

PEDU 121 - Beginning Tennis (1 Credit)
Basic strokes, history, rules, and strategy of the game.

PEDU 122 - Volleyball (1 Credit)
Recreational and competitive volleyball skills.

PEDU 123 - Pilates (1 Credit)
Focus is placed on mind-body exercises which help strengthen and condition the muscles. Each exercise will focus on building core strength, lengthening muscles, and improving flexibility. Proper breathing will also be demonstrated for each exercise in order to achieve the maximum benefits.

PEDU 124 - Fencing (1 Credit)
Basic foil-fencing techniques, rules, terminology, history, and etiquette.

PEDU 125 - Intermediate Karate (1 Credit)
Prerequisite: PEDU 117.

PEDU 126 - Badminton/Golf (1 Credit)
Students will learn to perform basic skills as well as to implement game strategies. Major consideration will be given on how to teach each sport.

PEDU 127 - Field Hockey (1 Credit)
Fundamental skills, rules, and terminology of field hockey.

PEDU 128 - Football (1 Credit)
Fundamental skills, rules, and terminology.

PEDU 129 - Racquetball (1 Credit)
Fundamental skills, rules, and terminology.

PEDU 130 - Intermediate Golf (1 Credit)
Intermediate strokes and strategies; heavier emphasis on the total golf swing.
Prerequisites: PEDU 114.

PEDU 131 - Basketball/Soccer (1 Credit)
Students will learn to perform basic skills as well as to implement game strategies. Major consideration will be given on how to teach each sport.

PEDU 132 - Intermediate Tennis (1 Credit)
Intermediate skills and strategies.
Prerequisites: PEDU 121.

PEDU 133 - Track and Field (1 Credit)
Fundamental skills, rules, and terminology.

PEDU 134 - Flying Disc Sports (1 Credit)
Fundamentals and strategies of disc golf, ultimate and various physical activities using flying discs in recreational and competitive situations.

PEDU 135 - Tai-Chi-Chuan (1 Credit)
Students will learn to perform basic Tai-Chi-Chuan skills. Major consideration will be given to breathing skills and meditation to relieve stress.

PEDU 136 - Yoga (1 Credit)
Fundamental skills and terminology.

PEDU 137 - Tae Kwon Do (1 Credit)
Fundamental skills of Tae Kwon Do.

PEDU 138 - Softball/Volleyball (1 Credit)
Students will learn to perform basic skills as well as to implement game strategies. Major consideration will be given on how to teach each sport.

PEDU 139 - Tennis/Track (1 Credit)
Students will learn to perform basic skills as well as to implement game strategies. Major consideration will be given on how to teach each sport.

PEDU 140 - Beginning Swimming (1 Credit)
Skills for safety and recreation.

PEDU 141 - Intermediate Swimming (1 Credit)
Prerequisite: PEDU 140.
PEDU 142 - Lifeguard Training (1 Credit)
Skills of lifesaving.
**Prerequisites:** swim 500 yards, tread water for one minute, and swim 20 feet underwater.

PEDU 143 - Water Safety Instructor Certification (1 Credit)
Skills, methods, and techniques to teach Red Cross Swimming and Life Saving.
**Prerequisites:** 17 years of age; sound physical condition; possession of the Red Cross Advanced Lifesaving Certificate, a Red Cross Swimmer Certificate, or the ability to perform the Swimmer Course.

PEDU 144 - Beginning Springboard Diving (1 Credit)
Basic dives and aesthetics of springboard diving.
**Prerequisites:** tread water and swim 20 feet underwater.

PEDU 145 - Skin and Scuba Diving (1 Credit)
Safe and effective use of equipment with emphasis on principles and physical laws of diving.
**Prerequisites:** ability to swim at the intermediate level.

PEDU 146 - Scuba (Open Water) (1 Credit)
Certification program in open water scuba instruction: safety, emergency procedures, equipment handling, navigation, and air consumption. Includes five open water dives.

PEDU 147 - Beginning Stand-Up Paddleboarding (1 Credit)
History and development of stand-up paddleboarding as a sport, safety protocol, paddleboard construction and design, terminology, fitness attributes and paddling techniques.

PEDU 148 - Team Water Sports (1 Credit)
Fundamental skills, rules, and strategies for participation in team water sports.
**Prerequisites:** intermediate swimming skills.

PEDU 149 - Survival Swimming (1 Credit)
Skills and techniques for survival under adverse conditions.
**Prerequisites:** swim 100 yards, tread water for one minute, and swim 20 feet underwater.

PEDU 150 - Basic Keelboat Sailing (1 Credit)
The course is designed to teach students to safely skipper and crew on a 20 to 27 foot sailboat with a tiller and outboard engine on lakes, bays, and sheltered waters in moderate weather conditions. Theory, history, safety, and teamwork will be emphasized.

PEDU 151 - Beginning Skateboarding (1 Credit)
History, rules, etiquette and techniques of skateboarding.

PEDU 152 - Power Yoga (1 Credit)
Vigorous yoga utilizing breath and movement to improve strength and flexibility.

PEDU 153 - Cardiopulmonary Resuscitation (1 Credit)
Knowledge and skills in providing artificial respiration, first aid for foreign body obstruction, one and two rescuer CPR for adults, infants, and children.

PEDU 154 - Advanced Open Water Scuba (1 Credit)
Development skills beyond open water scuba: underwater navigation, night diving, and deep diving.
**Prerequisites:** PEDU 146.

PEDU 155 - Personal Training Preparation (3 Credits)
Safe and effective methods of exercise by the application of theories and principles of exercise science. Discussion of facility organization, legal liability, and injury prevention and treatment within the scope of becoming a fitness professional.

PEDU 160 - Intermediate Yoga (1 Credit)
This course is designed to provide the historical and philosophical context of Mindfulness and how it relates to classical yoga of Pantanjali. Students will be guided in deepening their mindfulness meditation practice that includes analysis of the Four Establishments of Mindfulness and will develop an advanced asana sequence as part of their practice.
**Prerequisites:** PEDU 136.

PEDU 161 - Intermediate Fencing (1 Credit)
Basic footwork and bladework for foil and épée along with more complex skills, concepts, terminology, strategy, and understanding of the rules.

PEDU 164 - Zumba Fitness (1 Credit)
Principles of fitness interval training and resistance training applied to maximize caloric output, fat burning and total body toning with a fusion of Latin and International music-dance themes.

PEDU 167 - Geocaching (1 Credit)
History, rules, terminology, and strategy of geocaching. Strategies for seeking as well as creating geocaches.

PEDU 170 - Beginning Latin Dance (1 Credit)
Introductory course to multiple styles of social Latin dancing including Salsa, Merengue and Bachatta. Designed to develop the skills and techniques necessary for social level Latin dancing. Emphasis will be placed on basic social elements of dance, patterns, music, and leading and following.

PEDU 171 - Swing Dance (1 Credit)
Introduction to swing dances originating from the first half of the 20th century such as the Charleston, East Coast Swing, Lindy Hop, Jitterbug, Jive, and The Big Apple.

PEDU 172 - Rock Climbing and Bouldering (1 Credit)
Safe climbing and bouldering techniques. Movement on rock, rope systems, anchors, rappelling, belaying, risk management, spotting and lead climbing philosophy. Save use of equipment required for sport climbing and bouldering.

PEDU 173 - Folk and Square Dance (1 Credit)
Fundamental skills and terminology.

PEDU 174 - Social Dance (1 Credit)
Fundamental skills and terminology.

PEDU 175 - Intermediate Social Dance (1 Credit)
Development of skills to an intermediate level in six dances: fox trot, waltz, tango, swing, cha cha, rumba.
**Prerequisites:** PEDU 174.

PEDU 176 - Clogging (1 Credit)
History, folklore, and skills; individual steps and team routines.

PEDU 177 - Beginning Shag (1 Credit)
Techniques and history of the Shag, South Carolina's state dance. Chronciled development, style variations, and cultural contributions are emphasized.
PEDU 178 - Intermediate Shag Dance (1 Credit)
Introduction to more challenging shag moves for couples, based on steps, turns, spins, and passes. Emphasis on good shag form and rhythm, male lead, female follow, and tight couple positions going through step variations. Steps include Sugarfoot, Boogie Walk, Stagger, Walkup and others.
Prerequisites: PEDU 177.

PEDU 179 - Beginning Belly Dance (1 Credit)
Techniques, history, terminology, and dance combinations/choreography associated with Belly Dance at the fundamental level.

PEDU 180 - Archery (1 Credit)
Fundamentals of target and field archery shooting, history, scoring, and rules.

PEDU 181 - Equestrian (1 Credit)
English hunter-style riding for intermediate students.

PEDU 182 - Backpacking (1 Credit)
Living in the out-of-doors; gear selection, map and compass reading, backpacking, hiking, and camping.

PEDU 183 - Canoeing (1 Credit)
Fundamentals of lake, river, and whitewater canoeing.

PEDU 184 - Snow Skiing (1 Credit)
Fundamental skills and techniques.

PEDU 185 - Beginning Kayaking (1 Credit)
Fundamentals of whitewater kayaking including equipment selection and use, safety techniques, strokes, Eskimo roll, river strategies, rescue procedures, and trip planning.

PEDU 186 - Bicycle Touring (1 Credit)
Fundamental skills and techniques.

PEDU 187 - Rock Climbing (1 Credit)
Fundamentals of rock and mountain climbing including gear selection and use, knots and rope management, anchoring systems, belaying, rappelling, climbing techniques, and safety considerations.

PEDU 188 - Triathlon Training (1 Credit)
Intensive conditioning and cross training to achieve a high level cardiovascular fitness. Biking, running, and swimming in preparation for triathlon event.

PEDU 189 - Spinning (1 Credit)
Spinning to obtain physiological and psychological benefits.

PEDU 190 - Introduction to the Description and Analysis of Human Movement (2 Credits)
Analysis and performance of fundamental motor skills.

PEDU 194 - Educational Gymnastics (1 Credit)
Development of knowledge and skill in educational gymnastics. Designed to establish a content base for elementary and middle school physical education programs.

PEDU 195 - Educational Games (1 Credit)
Development of knowledge and skill in game activities appropriate for the elementary and middle school physical education game setting.

PEDU 196 - Educational Dance (1 Credit)
Development of personal skills in the use of movement for expressive purposes. Designed to establish a content base for elementary school physical education programs.

PEDU 197 - Fit Carolina (1 Credit)
Basic concepts associated with physical activity and the opportunities in community environments to engage in health-promoting and wellness activities.

PEDU 226 - Physical Education for Primary Grades (3 Credits)
Selection and development of appropriate content for elementary school physical education experiences.
Prerequisites: PEDU 190.

PEDU 232 - Philosophy and Principles of Physical Education (3 Credits)
Historical background, current problems, and publications.

PEDU 266L - Athletic Training Lab (1 Credit)
Techniques and skills used in the prevention or protection of injury.

PEDU 275 - Functional Musculoskeletal Anatomy (3 Credits)
Knowledge and skill of orthopedic anatomy relative to muscle, ligament, and tendon origin, insertion, innervation, and action.

PEDU 300 - First Aid and CPR (3 Credits)
Knowledge and skills necessary to meet the guidelines for professional certification. Skills include AED, adult, child, and infant CPR, breathing emergencies, and first aid.

PEDU 301 - Practicum in Physical Education Field Experiences (1-3 Credits)
Supervised field experiences for physical educators. Contract approved by instructor, advisor, and department head is required for undergraduate students.

PEDU 302 - Foundations of Coaching (3 Credits)
The philosophical bases, leadership theory, administrative practice, and organizational problems of competitive athletics.

PEDU 303 - Scientific Bases of Coaching I (3 Credits)
Anatomical, kinesiological, and biomechanical principles affecting performance in competitive athletics; use of biomechanical analysis techniques. Primarily for non-physical education majors who wish to coach.

PEDU 304 - Scientific Bases of Coaching II (3 Credits)
Physiological, psychological, ethical, and sport medicine principles affecting performance in competitive athletics; application of scientific principles. Primarily for non-physical education majors who desire to coach.
Prerequisites: PEDU 303.

PEDU 310 - Emergency Medical Responder (3 Credits)
Knowledge and skills necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. Appropriate decision making about the care to provide in a medical emergency; skills an EMR needs to act as a crucial link in the emergency medical services (EMS) system.

PEDU 312 - Coaching Gymnastics, Volleyball, and Softball (3 Credits)
Prerequisite: PEDU 302 and PEDU 303.

PEDU 313 - Coaching Basketball, Track and Field, and Soccer (3 Credits)
Prerequisite: PEDU 302 and PEDU 303.

PEDU 314 - Coaching Football, Baseball, and Wrestling (3 Credits)
Prerequisite: PEDU 302 and PEDU 303.

PEDU 320 - Practicum in Coaching (3 Credits)
Supervised practical experience in interscholastic coaching settings; concurrent seminar.
PEDU 340 - Practicum in the Instructional Aspects of Physical Education (1 Credit)
Application of instructional principles to small peer group settings using open and closed gross motor skills.
Corequisite: PEDU 360.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

PEDU 341 - Practicum in Instruction of Young Learners in Movement Settings (1 Credit)
Application of curriculum and instructional principles to small group instruction with young learners.
Prerequisites: PEDU 340 and PEDU 360, cumulative GPA of 2.75, have met the state basic skills testing requirement for educator preparation program admission.
Corequisite: PEDU 361.

PEDU 353 - Recreational Sports Programming (3 Credits)
Current program elements and techniques in recreational sports.

PEDU 360 - Instructional Aspects of Physical Education (3 Credits)
Instruction in physical education settings, including environmental arrangements, task presentation, content development, and feedback.
Prerequisites: PEDU 190, cumulative GPA of 2.50.
Corequisite: PEDU 340.

PEDU 361 - Instruction of Young Learners in Movement Settings (3 Credits)
Development of knowledge and skills to teach physical education to young learners.
Prerequisites: PEDU 340 and PEDU 360, cumulative GPA of 2.75, have met the state basic skills testing requirement for educator preparation program admission.
Corequisite: PEDU 341.

PEDU 398 - Seminar in Physical Education (1 Credit)
Various topics related to current events in physical education.

PEDU 399 - Independent Study (1-3 Credits)
Open to sophomores and above. Enrollment and topic to be approved in advance by advisor and instructor. Contract approved by instructor, advisor, and department head is required.
Graduation with Leadership Distinction: GLD: Research

PEDU 420 - Motor Learning in Physical Education (3 Credits)
Application of cognitive, sensory, and motor processes related to learning motor skills in physical education and sport settings.

PEDU 440 - Practicum in Secondary School Physical Education (1 Credit)
The application of curriculum and instructional principles to large group instruction in the secondary school.
Prerequisites: PEDU 341.
Corequisite: PEDU 462.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

PEDU 445 - Measurement & Evaluation in Physical Education (3 Credits)
The historic background of measurement in physical education; statistical techniques to be used in scoring and interpreting tests; evaluation of measures now available in the field; and the administration of a testing program. Available for undergraduate credit only.
Prerequisites: 15 credits in professional physical education, including PEDU 232 and 6 semester hours of professional skill courses.

PEDU 446 - Physical Education Curriculum (3 Credits)
The study of K-12 physical education school curriculum theory, issues, and design.
Prerequisites: Cumulative GPA of 2.75, Admission to Directed Teaching Semester.

PEDU 451 - Teaching Physical Education (3 Credits)
Analysis of teaching and learning in physical education.
Prerequisite or Corequisite: PEDU 462, PEDU 440.

PEDU 462 - Instruction in Secondary School Physical Education (3 Credits)
Physical education content and processes for the secondary school.
Prerequisites: PEDU 341 and PEDU 361, cumulative GPA of 2.75, have met the state basic skills testing requirement for educator preparation program admission.
Corequisite: PEDU 440.

PEDU 479 - Directed Teaching in Physical Education (12 Credits)
Prerequisite: Cumulative GPA of 2.75, Admission to Directed Teaching Semester.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

PEDU 498 - Advanced Seminar in Physical Education (1 Credit)
Advanced learning opportunities in professional physical education.
Prerequisites: 90 hrs. and permission of instructor.
Graduation with Leadership Distinction: GLD: Research

PEDU 510 - Teaching Health Related Physical Fitness (3 Credits)
Knowledge and application of processes and principles of health related physical fitness in physical education and sport settings.
Prerequisites: EXSC 223/EXSC 224 or BIOL 243/BIOL 244.

PEDU 515 - Physical Education for Inclusion (3 Credits)
Designing physical education programs for special populations and for students with special needs.
Prerequisites: PEDU 340, PEDU 360.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

PEDU 520 - Observational Analysis of Sports Techniques and Tactics (3 Credits)
Qualitative and quantitative techniques to observe, describe, analyze, and evaluate human movement in physical education and sports settings.
Prerequisites: PEDU 190, EXSC 223, EXSC 224 or BIOL 243, BIOL 244; PHYS 101.
PEDU 553 - The Organization and Administration of Physical Education (3 Credits)
Organization of instructional, intramural, interscholastic, and recreational programs, with emphasis on criteria for the evaluation and selection of activities.
**Prerequisites:** 18 credits in physical education, including six semester hours of professional skill courses.

PEDU 555 - Current Topics in Physical Education (1-3 Credits)

PEDU 570 - Human Child/Adolescent Growth (3 Credits)
Human physical growth and development of children with emphasis on years 4 to 18.
**Prerequisites:** EXSC 223, EXSC 224, or equivalent.

PEDU 575 - Physical Education for the Classroom Teacher (3 Credits)
Appropriate movement experiences for children. Not available for physical education majors.
**Prerequisites:** EDTE 201.

PEDU 577 - Dance Performance (3 Credits)
Rehearsal, choreographic analysis, and dance performance. All components of dance production--including music, costume, lighting, and scenery--will be considered.
**Cross-listed course:** DANC 577

PEDU 635 - South Carolina Physical Education Curriculum (3 Credits)
Development of physical education programs using the South Carolina Physical Education Curriculum Materials.

PEDU 637 - Advanced Theory and Techniques of Coaching Football (3 Credits)
An intensive investigation of current theories of offensive and defensive football. Generalship, strategy, conditioning, staff utilization, film analysis, and practice organization are covered in depth.
**Prerequisites:** current responsibilities or previous experience in college or high school coaching.

PEDU 638 - Advanced Theory and Techniques of Coaching Basketball (3 Credits)
An intensive investigation of the latest techniques and theories of coaching basketball. Systems of offense and defense, generalship, conditioning, staff utilization, film analysis, and practice organization are covered in depth.
**Prerequisites:** current responsibilities or previous experience in college or high school coaching.

PEDU 639 - Advanced Theory and Techniques of Coaching Track and Field Events (3 Credits)
A thorough study of the latest techniques of coaching track and field events. Isometric, isotonic, and interval conditioning theories involving the cardiovascular and muscular systems are examined to acquaint the student with varying physiological approaches to conditioning.
**Prerequisites:** current responsibilities or previous experience in college or high-school coaching.

PEDU 640 - Advanced Theory and Techniques of Teaching and Officiating Girls' Gymnastics (3 Credits)
A thorough study of the latest techniques of teaching and officiating girls' gymnastics. Balance beam, vaulting, uneven bars, tumbling, dance skills and routines, and officiating methods.

PEDU 645 - The Art and Science of Coaching (3 Credits)
Coaching principles and application to sport programs across a variety of developmental levels.

PEDU 660 - Counseling Student Athletes (3 Credits)
Issues facing student athletes regarding their personal and career development beyond athletics.
**Cross-listed course:** EDCE 650

## Physics (PHYS)

PHYS 101 - The Physics of How Things Work I (3 Credits)
A practical introduction to physics and science in everyday life--from concrete examples to basic physical principles.
**Carolina Core:** SCI

PHYS 101L - The Physics of How Things Work I Lab (1 Credit)
Experiments, exercises, and demonstrations to accompany PHYS 101.
**Prerequisite or Corequisite:** PHYS 101.

PHYS 102 - The Physics of How Things Work II (3 Credits)
A continuation of PHYS 101 with emphasis on electricity, magnetism, optics, and atomic physics.
**Prerequisites:** PHYS 101.

PHYS 102L - The Physics of How Things Work II Lab (1 Credit)
Experiments, exercises, and demonstrations to accompany PHYS 102.
**Prerequisite or Corequisite:** PHYS 102.

PHYS 151 - Physics in the Arts (3 Credits)
The physics of sound, color, illumination; musical instruments and photographic processes. Credit may not be received for both PHYS 151 and PHYS 153 or both PHYS 151 and PHYS 155.

PHYS 151L - Physics in the Arts Laboratory (1 Credit)
Laboratory work on wave motion, including acoustic, optical, photographic, and electronic measurements. Credit may not be received for both PHYS 151L and PHYS 153L or both PHYS 151L and PHYS 155L.
**Prerequisite or Corequisite:** PHYS 151.

PHYS 153 - Physics in the Visual Arts (3 Credits)
Principals of optics: video, and photography, eye and vision, color, polarization, lasers, and holography. Credit may not be received for both PHYS 153 and PHYS 151.

PHYS 153L - Physics in the Visual Arts Laboratory (1 Credit)
Laboratory work in geometrical and wave optics. Credit may not be received for both PHYS 153L and PHYS 151L.
**Prerequisite or Corequisite:** PHYS 153.

PHYS 155 - Musical Acoustics (3 Credits)
The principles of musical and architectural acoustics, waves and vibrations, digital techniques for generating and recording sound, perception and measure of sound (psychoacoustics). Credit may not be received for both PHYS 155 and PHYS 151.

PHYS 155L - Acoustics Laboratory (1 Credit)
Laboratory work in musical and architectural acoustics. Credit may not be received for both PHYS 155L and PHYS 151L.
**Prerequisite or Corequisite:** PHYS 155.

PHYS 180 - Physics Concepts, Calculations, and Context (1 Credit)
Problem solving techniques and mathematical language using key concepts in introductory physics.
**Corequisite:** PHYS 201 or PHYS 202.
PHYS 199 - Measurement and Analysis in Physics (2 Credits)
Measurements in classical and modern physics are performed, and the analyzed results are compared with basic principles. Four hours of mixed lecture and laboratory per week.
Prerequisites: C or better in MATH 115 or equivalent or higher.

PHYS 201 - General Physics I (3 Credits)
First part of an introductory course sequence. Topics include mechanics, and selections from wave motion, sound, fluids, and heat. No previous background in physics is assumed.
Prerequisites: C or better in MATH 111, MATH 111L, MATH 112, MATH 115, MATH 116, MATH 122, MATH 141, or by placement score into MATH 122, MATH 141, or higher.

Carolina Core: SCI

PHYS 201L - General Physics Laboratory I (1 Credit)
Prerequisite or Corequisite: PHYS 201.

Carolina Core: SCI

PHYS 202 - General Physics II (3 Credits)
Continuation of PHYS 201; includes electromagnetism, relativity, quantum physics, atomic and nuclear physics.
Prerequisites: C or better in PHYS 201.

Carolina Core: SCI

PHYS 202L - General Physics Laboratory II (1 Credit)
Prerequisite or Corequisite: PHYS 202.

Carolina Core: SCI

PHYS 211 - Essentials of Physics I (3 Credits)
Classical mechanics and wave motion. Calculus-level course for students of science and engineering.
Prerequisites: C or better in MATH 141.

Corequisite: PHYS 211L.

Carolina Core: SCI

PHYS 211L - Essentials of Physics I Lab (1 Credit)
Prerequisite or Corequisite: PHYS 206 or PHYS 211.

Carolina Core: SCI

PHYS 212 - Essentials of Physics II (3 Credits)
Classical electromagnetism and optics.
Prerequisites: C or better in PHYS 211 and MATH 142.

Corequisite: PHYS 212L.

Carolina Core: SCI

PHYS 212L - Essentials of Physics II Lab (1 Credit)
Prerequisite or Corequisite: PHYS 207 or PHYS 212.

Carolina Core: SCI

PHYS 291 - Einstein's Relativity: Understanding by Example (3 Credits)
Special theory of relativity. Algebra-based course for students of all majors.
Prerequisites: B or better in MATH 115 or equivalent.

PHYS 306 - Principles of Physics III (3 Credits)
Wave motion, optics, and thermodynamics. Calculus-level treatment; a continuation of PHYS 207 and PHYS 212.
Prerequisites: C or better in PHYS 207 or PHYS 212 and MATH 142.

Corequisite: MATH 241.

PHYS 307 - Introduction to Modern Physics (3 Credits)
Experimental foundations and general concepts of quantum theory and special relativity; with selected applications from atomic, condensed matter, and nuclear physics.
Prerequisites: C or better in PHYS 212 and MATH 241.

PHYS 308 - Classic Experiments in Physics I (2 Credits)
A laboratory course in the performance and analysis of experiments which have contributed to an understanding of basic concepts. One lecture/recitation and one three-hour laboratory period each week.
Prerequisites: PHYS 202, PHYS 207, or PHYS 212.

PHYS 309 - Classic Experiments in Physics II (2 Credits)
Further experiments which have contributed to an understanding of basic concepts. One lecture/recitation and one three-hour laboratory period each week.
Prerequisites: PHYS 308.

PHYS 310 - Intermediate Experimental Physics (4 Credits)
Descriptive statistics, scientific ethics, and design, construction, and reporting the results of experiments.
Prerequisites: C or better in PHYS 212.

PHYS 311 - Introduction to Applied Numerical Methods (3 Credits)
Introduction and application of linear algebra and numerical methods to the solution of physical and engineering problems. Techniques include iterative solution techniques, methods of solving systems of equations, and numerical integration and differentiation.
Prerequisites: MATH 141.

Corequisite: MATH 142.

Cross-listed course: EMCH 201, ENCP 201

PHYS 340 - Introduction to Relativistic Astrophysics (3 Credits)
Final states of stellar evolution; white dwarfs, neutron stars, black holes. Cosmology.
Prerequisites: ASTR 211, MATH 115 or equivalent, and PHYS 202, PHYS 207, or PHYS 212.

PHYS 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

PHYS 498 - Senior Thesis (3 Credits)
An individual investigation in the library or laboratory or both under supervision of the major professor. The preparation of a scientific report is an integral part of the work.
Graduation with Leadership Distinction: GLD: Research

PHYS 499 - Undergraduate Research (3 Credits)
Introduction to and application of the methods of research. A written report on work accomplished is required at the end of each semester.
Prerequisites: PHYS 308 and PHYS 309.

Graduation with Leadership Distinction: GLD: Research
Phys 501 - Quantum Physics I (3 Credits)
A self-contained treatment of quantum theory and its applications, beginning with the Schrodinger equation.
Prerequisites: C or better in PHYS 307 and MATH 242.

Phys 502 - Quantum Physics II (3 Credits)
Advanced topics in quantum physics, plus topics in special relativity, high-energy physics, and cosmology.
Prerequisites: C or better in PHYS 501.

Phys 503 - Mechanics (4 Credits)
Classical mechanics of particles, systems, and rigid bodies; discussion and application of Lagrange's equations, introduction to Hamiltonian formulation of mechanics.
Prerequisites: PHYS 206 or PHYS 211, MATH 242 or MATH 520.

Phys 504 - Electromagnetic Theory (4 Credits)
Field theory of electric and magnetic phenomena; Maxwell's equations applied to problems in electromagnetism and radiation.
Prerequisites: C or better in PHYS 503.

Phys 506 - Thermal Physics and Statistical Mechanics (3 Credits)
Principles of equilibrium thermodynamics, kinetic theory, and introductory statistical mechanics.
Prerequisites: C or better in PHYS 306.

Phys 509 - Solid State Electronics (4 Credits)
Topics include: basic electrical circuits; electronic processes in solids; operation and application of individual solid state devices and integrated circuits. Three lecture and three laboratory hours per week.
Prerequisites: PHYS 207 or PHYS 212.

Phys 510 - Digital Electronics (3 Credits)
Basic operation of digital integrated circuits including microprocessors. Laboratory application of microcomputers to physical measurements.
Prerequisites: C or better in PHYS 509.

Phys 511 - Nuclear Physics (4 Credits)
An elementary treatment of nuclear structure, radioactivity, and nuclear reactions. Three lecture and three laboratory hours per week.
Prerequisites: C or better in PHYS 501.

Phys 512 - Solid State Physics (4 Credits)
Crystal structure; lattice dynamics; thermal, dielectric, and magnetic properties of solids. Free electron model of metals. Band structure of solids, semi-conductor physics. Three lecture and three laboratory hours per week.
Prerequisites: PHYS 502.

Phys 514 - Optics, Theory, and Applications (4 Credits)
Geometrical and physical optics; wave nature of light, lenses and optical instruments, interferometers, gratings, thin films, polarization, coherence, spatial filters, and holography. Three lecture and three laboratory hours per week.
Prerequisites: PHYS 306.

Phys 515 - Mathematical Physics I (3 Credits)
Analytical function theory including complex analysis, theory of residues, and saddlepoint method; Hilbert space, Fourier series; elements of distribution theory; vector and tensor analysis with tensor notation.
Prerequisites: MATH 242.

Phys 516 - Mathematical Physics II (3 Credits)
Group theory, linear second-order differential equations and the properties of the transcendental functions; orthogonal expansions; integral equations; Fourier transformations.
Prerequisites: PHYS 515.

Phys 517 - Computational Physics (3 Credits)
Application of numerical methods to a wide variety of problems in modern physics including classical mechanics and chaos theory, Monte Carlo simulation of random processes, quantum mechanics and electrodynamics.
Prerequisites: C or better in PHYS 212 and MATH 142.

Phys 521 - Biophysics (4 Credits)
Principles of physics applied to living systems: diffusion, friction, low Reynolds-number world, entropy, free energy, entropic/chemical forces, self-assembly, molecular machines, membranes.
Prerequisites: MATH 142, PHYS 212, CHEM 112, BIOL 102.

Phys 531 - Advanced Physics Laboratory I (1-3 Credits)
A laboratory program designed to develop a combination of experimental technique and application of the principles acquired in formal course work. A maximum of eight hours per week of laboratory and consultation.

Phys 532 - Advanced Physics Laboratory II (1-3 Credits)
A continuation of PHYS 531. Up to eight hours per week of laboratory and consultation.

Phys 541 - Advanced Experimental Physics I (4 Credits)
Continuation of PHYS 541. Study of topics from Advanced Optics, Astronomy, Biophysics, Digital Electronics, Nuclear/Particle Physics, or Solid State Physics, plus conduct of a physics experiment, including a written paper and an oral presentation.
Prerequisites: C or better in PHYS 541.

Phys 542 - Advanced Experimental Physics II (4 Credits)
Continuation of PHYS 541. Study of topics from Advanced Optics, Astronomy, Biophysics, Digital Electronics, Nuclear/Particle Physics, or Solid State Physics, plus conduct of a physics experiment, including a written paper and an oral presentation.
Prerequisites: C or better in PHYS 541.

Phys 546 - Introduction to Astrophysics (3 Credits)
This is an astrophysics course for physics students. The course will cover the basics of observational techniques, structure and evolution of stars, interstellar medium and star formation, structure and properties of the Milky Way and nearby galaxies, and generation and transfer of radiation in astrophysical environments.
Prerequisites: C+ or better in PHYS 307.

Phys 599 - Topics in Physics (1-3 Credits)
Readings and research on selected topics in physics. Course content varies and will be announced in the schedule of classes by title.

Political Science (POLI)

POLI 101 - Introduction to Global Politics (3 Credits)
Introduction to theories about global politics. Issues and controversies central to global politics.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Global Learning
POLI 103A - Controversies in the Politics of Global Regions: Africa (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning
Cross-listed course: ENVR 122

POLI 103B - Controversies in the Politics of Global Regions: Asia (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 103C - Controversies in the Politics of Global Regions: Europe (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 103D - Controversies in the Politics of Global Regions: Latin America (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 103E - Controversies in the Politics of Global Regions: Middle East (3 Credits)
Social, cultural, and historical forces underlying contemporary political controversies in Africa POLI 103A, Asia POLI 103B, Europe POLI 103C, Latin America POLI 103D, and the Middle East POLI 103E; region will be identified by title.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 105 - Introduction to Politics (3 Credits)
Concepts and problems involved in human relationship with governments, the nation-state, and political change.

POLI 107 - Controversies in Political Theory (3 Credits)
An introduction to the analysis of disputes about the nature of politics and of political ideas such as freedom, equality, and justice.

POLI 109 - Controversies in Public Policy (3 Credits)
An introduction to the analysis of contentious public policy questions in contemporary American society, such as welfare, gun control, health care financing, immigration, affirmative action, and/or abortion.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

POLI 111 - Controversies in American Politics (3 Credits)
An introduction to the analysis of key issues in contemporary American politics focusing on the arguments, the groups involved, and the political factors that influence the outcome of the debate.

POLI 121 - Green Explorations (3 Credits)
Interdisciplinary seminar combining the intellectual exploration of ecological perspectives with the physical exploration of the local environment. First-year students only.
Cross-listed course: ENVR 121

POLI 122 - Green Engagements (3 Credits)
Interdisciplinary seminar on designing, researching, and implementing collaborative projects to promote ecological sustainability. First-year students only.
Cross-listed course: ENVR 122
Graduation with Leadership Distinction: GLD: Community Service, GLD: Research

POLI 201 - American National Government (3 Credits)
The formation and development of the national government, its organization and powers. Overlay Course.
Carolina Core: GSS, VSR

POLI 202 - Policies and Functions of American Government (3 Credits)
The policies and functions of the American national government directed to the public issues and problems of contemporary America.
Prerequisites: POLI 201.

POLI 215 - Introduction to Leadership Studies (3 Credits)
Conceptions and models, values and pitfalls, strategies and skills of leadership and of leaders in diverse contexts
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

POLI 240 - Language Conflict and Language Rights (3 Credits)
Examination of linguistic conflict and rights, as well as centrality of language rights to human rights and personal/cultural identity. Basic facts without language related to identify, culture, attitudes, dialects, bilingualism. Case studies (local, national, international) with particular attention to nationalism, language revitalization, language planning.
Cross-listed course: LING 240
Carolina Core: VSR

POLI 300 - Social and Political Philosophy (3 Credits)
An overview of major themes in political philosophy such as the nature of politics, obligation, community, representation, freedom, equality, and justice.
Cross-listed course: PHIL 330
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

POLI 301 - The Political Science Discipline (3 Credits)
The history and development of approaches, methods, and fields of study in political science.
Graduation with Leadership Distinction: GLD: Research

POLI 302 - Classical and Medieval Political Theory (3 Credits)
Political theories from the Greeks to the Renaissance.
Carolina Core: VSR

POLI 303 - Modern Political Theory (3 Credits)
Political theories from the Renaissance to the 19th century.
Carolina Core: VSR

POLI 304 - Contemporary Political Theory (3 Credits)
Nineteenth and 20th century political theories.
Carolina Core: VSR

POLI 305 - Race, Class, Gender, and Sexuality (3 Credits)
Historical and contemporary power relationships in race, social class, gender, and sexual orientation.
Cross-listed course: SOCY 304, WGST 304
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
POLI 307 - Feminist Theory (3 Credits)
Historical development of feminist theory and contemporary debates within feminism.
Cross-listed course: WGST 307
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 315 - International Relations (3 Credits)
International political behavior and institutions.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 316 - Comparative Politics (3 Credits)
Comparative approaches to political systems, behavior, and institutions.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 330 - International Organization (3 Credits)
An introduction to the structure and functions of international political and economic organizations. Particular attention to the United Nations and its specialized agencies, and to emerging regional communities.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 340 - The Conduct and Formulation of United States Foreign Policy (3 Credits)
An analysis of how contemporary United States foreign policy is made and conducted.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 341 - Contemporary United States Foreign Policy (3 Credits)
A critical analysis of selected problems of United States foreign policy.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 342 - National Security Policies of the United States (3 Credits)
Formulation and implementation of contemporary United States defense and security policies.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 350 - Public Opinion and Politics (3 Credits)
A broad survey of the role and development of public attitudes toward political problems in a democracy. Emphasis on the origins, manifestations, and consequences of public opinion in American politics.

POLI 352 - Gender and Politics (3 Credits)
Impact of gender on the distribution of power in society; foundations for intersections of gender, race, social class, and sexuality and their economic, social, and political concomitants.
Cross-listed course: WGST 352
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 353 - Introduction to U.S. Racial and Ethnic Politics (3 Credits)
Survey of theories of the impact of race, ethnicity, and racism on American politics, and analysis of major policies and racial group experience regarding American citizenship.
Cross-listed course: AFAM 353
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 357 - Film, Politics, and Social Change (3 Credits)
Critical analysis of film as expression and agent of political cultural, ideology, and change.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

POLI 360 - American Political Parties (3 Credits)
A broad survey of the role of political parties in the American political system. Following an examination of the historical evolution of party systems in the United States, primary attention is given to three aspects of contemporary political parties: the party as an organization, the party as an electorate, and the party as a governing elite.

POLI 361 - Elections and Voting Behavior (3 Credits)
An analysis of elections and the voting process. Topics include candidate selection, campaigning, and the conduct of elections as well as public opinion, voting behavior, and the role of elections in the democratic political system.

POLI 362 - Politics and the Mass Media (3 Credits)
Survey of the role in American politics of mass communications media, including the press and electronic news reporting; influence of mass media on the conduct of political campaigns, political leadership style, and public opinion.

POLI 363 - Southern Politics (3 Credits)
Selected political patterns and trends within the 11 states of the American South. Historical developments with the central focus on Southern politics since 1950.

POLI 364 - African-American Politics (3 Credits)
African-American politics from the colonial period to the present. Emphasis on voting rights and strategies to advance black representation.
Cross-listed course: AFAM 364
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 365 - State Government (3 Credits)
A study of state-federal relations, relations among states, state constitutions, and the structure and functions of the three branches of government. Emphasis is given to South Carolina.

POLI 368 - Interest Groups and Social Movements (3 Credits)
The mobilization, organization, tactics, and results of group-based politics, including latent interests and the suppression of interests.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 370 - Introduction to Public Administration (3 Credits)
A study of the basic principles and theory of administrative structure, responsibility, and control in relation to policy making in the modern state.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

POLI 371 - Politics of Taxing and Spending (3 Credits)
Principles and practices of financial administration, including organization, budgeting, assessment, treasury management, and debt.

POLI 373 - Regulatory Policies (3 Credits)
Types and limits of powers exercised by regulatory agencies; procedural law and remedies against administrative action.

POLI 374 - Public Policy (3 Credits)
Process of and major approaches to making public policy particularly, in the United States. Case study materials will focus on such major policies as welfare, health care, national security, and resource management.
POLI 379 - Public Affairs Internship (2-6 Credits)
Contract approved by Instructor, Advisor, and Department Chair is required for undergraduates.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

POLI 380 - Comparative Politics of Developing Countries (3 Credits)
A comparative analysis of the political problems confronting new nations, the political consequences of the breakdown of traditional society and the problems of developing new institutional forms and procedures.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 381 - Comparative Politics of Industrialized Countries (3 Credits)
Introduction to the development, structure, and functioning of government and politics in Western Europe, the former Soviet states, and other selected industrialized countries.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 383 - Genocide: A Comparative Perspective (3 Credits)
An analysis of the causes of genocide and the application of those insights to explain how genocide has occurred repeatedly at various times and places across the globe.

POLI 391 - Topics in Political Science (3 Credits)
May be repeated once as topics change.
Graduation with Leadership Distinction: GLD: Community Service

POLI 393 - Race and Science Fiction (3 Credits)
Draws on science fiction to understand the contemporary history of American racial and ethnic politics and to speculate about the significance of race in America's political future.
Cross-listed course: AFAM 393
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 399 - Independent Study/Poli Sci (3 Credits)
Note: Prior approval of an individualized contract by the director of undergraduate studies in political science and the instructor who will supervise the project required.
Graduation with Leadership Distinction: GLD: Research

POLI 399A - Independent Study in Political Science (1-6 Credits)
Prior approval of an individualized contract by the director of undergraduate studies in political science and the instructor who will supervise the project required.
Graduation with Leadership Distinction: GLD: Research

POLI 399B - Independent Study in International Studies (1-6 Credits)
Prior approval of an individualized contract by the director of undergraduate studies in international studies and the instructor who will supervise the project required.
Graduation with Leadership Distinction: GLD: Research

POLI 400 - Selected Topics in Political Theory (3 Credits)
Intensive analysis of a particular topic or topics. To be identified by title each semester.

POLI 401 - Selected Thinkers in Political Theory (3 Credits)
Intensive analysis of particular theorist or theorists. To be identified by title each semester.

POLI 402 - African American Political Thought (3 Credits)
Survey of many of the major schools of historic and contemporary African American political thought.
Cross-listed course: AFAM 402
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 404 - Democratic Theory (3 Credits)
An introduction to contemporary theories and practices with focus on Western, especially American, experience.

POLI 406 - The State of American Politics (3 Credits)
Major factors that affect the state of contemporary American politics, including the Constitution, the Congress, the courts, the presidency, the states, federalism, political parties, special-interest groups, and the electoral process.

POLI 416 - Revolution and Political Violence (3 Credits)
Forms, causes, and consequences of domestic political violence with special attention to revolution.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 417 - Theories of War in International Relations (3 Credits)
The contributions of the social sciences and social theorists to an understanding of the causes of war.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 420 - International Law (3 Credits)
The origin, development, and principles of the international law of peace and the enforcement of these principles, the law of war and pacific settlement of disputes.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 421 - Law and Contemporary International Problems (3 Credits)
The growth of law in several areas of increasing international concern: environmental protection, expropriation, outer space, individual rights and obligations, conservation of resources, state responsibility, and terrorism.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 430 - Ideology and World Politics (3 Credits)
An introduction to the ideological context of world affairs, with attention to traditional democratic, totalitarian, and Third World "developmental ideologies".
Graduation with Leadership Distinction: GLD: Global Learning

POLI 431 - Science, Technology, and Public Policy (3 Credits)
Interaction between science and politics, the making of the national science and technology policy, and the role of public policy in promoting and managing scientific change.

POLI 432 - Nationalism and Ethnicity in World Politics (3 Credits)
Nationalism and ethnicity as factors in world politics, including the sources, nature, and analysis of conflicts associated with them.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

POLI 433 - Economic Aspects of International Politics (3 Credits)
Economic problems and policies in international politics including theory of comparative advantage; international economic aid, trade and monetary issues; the United States’ role in the international economy; and the functions of international economic institutions.
Graduation with Leadership Distinction: GLD: Global Learning
POLI 437 - International Relations of Latin America (3 Credits)
Contemporary international relations among Latin American states, including economic and political security and relations with the United States.
Cross-listed course: LASP 451
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

POLI 440 - Russian Foreign Policy (3 Credits)
Analysis of the development of foreign policies in Russia and other states of the former USSR with special attention to relations with Europe and the United States.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 442 - Globalization and Security (3 Credits)
Exploration of the ways in which globalization may impact national and international security.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 443 - International Relations of East Asia and the Pacific (3 Credits)
Political patterns and forces in the Asia/Pacific region in recent times including the process of decolonization, regional conflicts, great power relations, and economic interdependencies.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 444 - International Relations in Japan (3 Credits)
The institutions, actors, and processes of Japan's contemporary political and economic foreign affairs.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 445 - Political Economy of Africa's Regions (3 Credits)
The historic and contemporary political and economic processes and structures of one or more regions in Africa, such as North Africa, West Africa, East Africa, Central Africa, or Southern Africa.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 446 - International Relations of Africa (3 Credits)
Contemporary international relations among African nations including decolonization, pan-Africanism, and movements of national liberation; Africa's role in the United Nations, relations between African states and the former colonial powers, the United States, and communist countries.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 447 - Foreign Policies of Selected Powers (3 Credits)
Foreign policy-making institutions, processes, and policies of selected powers with special attention to the domestic determinants of foreign policy.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 448 - Politics and Government of China (3 Credits)
Political institutions and processes of the People's Republic of China with secondary emphasis on the government and politics of the Republic of China on Taiwan.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 449 - International Relations of the Middle East (3 Credits)
Examination of super- and great-power policies toward the Middle East; inter-regional relations and Middle East foreign relations.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 450 - Constitutional Law (3 Credits)
Nature and functions of the national government and its relations with the states.

POLI 451 - Constitutional Law (3 Credits)
Due process and civil liberties.

POLI 452 - The Judicial Process (3 Credits)
A study of the growth of law, the law-making function of the courts, the structure and organization of federal and state courts, the procedures involved in civil and criminal cases, and the problems and proposals for reform in the administration of justice.

POLI 453 - Moot Court and Legal Research (3 Credits)
Introduction to fundamental legal research techniques and strategies applied to controversial court cases in both oral and written forms.

POLI 454 - Women and the Law (3 Credits)
Constitutional and statutory case law dealing with gender equality issues. Topics include abortion, affirmative action, pornography, sexual harassment, fetal protection policies, employment discrimination, and women in the military.
Cross-listed course: WGST 454
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 461 - Congress and the Presidency (3 Credits)
Analysis of the interaction between the legislative and executive branches within a separation-of-power system.

POLI 462 - The Legislative Process (3 Credits)
A study of the structure, organization, powers, functions, and problems of legislative bodies.

POLI 463 - The American Chief Executive (3 Credits)
Constitutional, statutory and political powers and roles of the American chief executive.

POLI 464 - Roosevelt Institution Seminar (3 Credits)
Analysis and discussion of contemporary public policy problems through exposure to campus experts and intensive writing and peer review.

POLI 465 - Psychology and Politics (3 Credits)
The role of psychology in political attitudes and behavior. Examination of individual psycho-political relationships and aggregate typologies. Particular emphasis on the psychological roots of the need for or the rejection of political authority.
Prerequisites: PSYC 101.

POLI 470 - Federalism and Intergovernmental Relations (3 Credits)
The origins and evolution of the American federal system, focusing on the constitutional, regulatory, and financial entanglements among federal, state and local governments.

POLI 475 - Survey Research (3 Credits)
Principles and practice of survey research/public opinion polling including sampling, questionnaire design, data collection, coding processing and analysis.
Graduation with Leadership Distinction: GLD: Research

POLI 476 - Black Activism (3 Credits)
Critical review of theories of community organizing, grassroots activism, and social movements, and examination of contemporary forms of black activism.
Cross-listed course: AFAM 476
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

POLI 477 - Green Politics (3 Credits)
An analysis of green political thought and environmental movements at the local, state, national, and global levels.
Graduation with Leadership Distinction: GLD: Community Service
POLI 478 - Environmental Policy (3 Credits)
Themes in environmental policy in industrialized nations. Analysis of issue framing, the role of the public and private tools, and conflicting perspectives. Incorporates analysis of policy process and public management.

POLI 480 - Politics and Government of Russia (3 Credits)
Political processes and institutions of Russia and other independent states of the former USSR.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 481 - Politics and Governments of Europe (3 Credits)
Political processes and institutions of European nations.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 483 - Middle East Politics (3 Credits)
Focuses on the internal politics of Middle East states; historical and cultural setting of Middle East politics, social institutions, and dynamics of the political process.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 487 - Politics and Governments of Africa (3 Credits)
Political developments, processes, and institutions of the African nations.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 488 - Politics and Governments of Latin America (3 Credits)
The development, principles, political thought, and politics of the several Latin American states.
Cross-listed course: LASP 351
Graduation with Leadership Distinction: GLD: Global Learning

POLI 489 - Politics and Government of Japan (3 Credits)
Political institutions and processes of Japan.
Graduation with Leadership Distinction: GLD: Global Learning

POLI 498 - Research Experience (3 Credits)
Working with a faculty mentor, students develop a research project and related search skills.
Prerequisites: minimum GPA of 3.60 in major courses, 3.30 overall.
Graduation with Leadership Distinction: GLD: Research

POLI 499 - Senior Thesis (3 Credits)
For intensive majors. Individual instruction in research techniques and supervised thesis preparation.
Graduation with Leadership Distinction: GLD: Research

PORT 121 - Elementary Portuguese (3 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.
Carolina Core: GFL

PORT 122 - Basic Proficiency in Portuguese (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: PORT 121.

PORT 201 - Intermediate Portuguese I (3 Credits)
Review of the basic principles of grammar with additional emphasis on reading and oral skills.
Prerequisites: PORT 122, PORT 130.

PORT 202 - Intermediate Portuguese II (3 Credits)
Continued review of the basic principles of grammar with additional emphasis on reading, writing, and oral skills.
Prerequisites: PORT 201.
PORT 299 - Accelerated Portuguese for Speakers of Spanish (3 Credits)
Accelerated Portuguese for speakers of Spanish, taught through a communicative approach. Students will develop intermediate-level oral and written communication skills in Portuguese and increase knowledge about multiple aspects of Luso-Brazilian cultures.
Prerequisites: SPAN 302, advanced proficiency or equivalent in Spanish.

PORT 309 - Advanced Conversation and Composition I (3 Credits)
Development of advanced conversational and compositional skills through systematic grammar study and review, reading, oral activities, and film discussion.
Prerequisites: Any 200-level PORT course.

PORT 310 - Advanced Conversation and Composition II (3 Credits)
Development of advanced conversational and compositional skills through systematic grammar study and review, reading, and the analysis of texts through both writing and oral discussion.
Prerequisites: Any 200-level PORT course.

PORT 312 - Introduction to Luso-Brazilian Literature (3 Credits)
Introduction to reading literary texts in Portuguese through carefully selected readings from different genres/periods.
Prerequisites: PORT 309 and PORT 310.

PORT 325 - The Brazilian Modern Short Story (3 Credits)
Examination of Brazilian short fiction and cronicas (literary journalistic pieces).
Prerequisites: PORT 309 and PORT 310.

PORT 375 - Special Topics in Luso-Brazilian Cultural Production (3 Credits)
Intensive study of special topics in Luso-Brazilian cultural production. May be repeated once as content varies by title. Taught in Portuguese.
Prerequisites: PORT 309 and PORT 310.

PORT 398 - Selected Portuguese Topics (1-3 Credits)
Intensive study of selected topics. May be repeated for credit under different title. Taught in English. Individual topics to be announced by title.

PORT 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

PORT 615 - Intensive Readings in Portuguese (3 Credits)
Intensive reading for non-majors. Graduate students fulfill their foreign-language reading requirements with successful completion of the course. Undergraduates may take the course as an elective only.

Psychology (PSYC)

PSYC 101 - Introduction to Psychology (3 Credits)
An introduction to and survey of the basic concepts and findings within the field of psychology.
Carolina Core: GSS

PSYC 103 - Psychology of Adjustment (3 Credits)
Introduction to theories and processes underlying and facilitating human adjustment in the community, family, and workplace.

PSYC 226 - Research Methods in Psychology (3 Credits)
Basic principles and methodology.
Prerequisites: PSYC 101 or SCHC 130.

Graduation with Leadership Distinction: GLD: Research

PSYC 227 - Psychological Statistics (3 Credits)
Introduction to statistical methods essential for psychological research.
Prerequisites: PSYC 226 and MATH 111 or placement out of MATH 111.

PSYC 228 - Laboratory in Psychology (2 Credits)
Laboratory in psychology in which research methods and statistical methods are integrated. One lecture and one two-hour laboratory per week.
Prerequisites: PSYC 226 and PSYC 227.

PSYC 300 - Human Sexual Behavior (3 Credits)
Psychological, physiological, and sociological factors of human sexual behavior and attitudes.

PSYC 301 - Psychology of Marriage (3 Credits)
The psychological, physiological, and social characteristics of marriage.
Cross-listed course: WGST 301
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PSYC 310 - Psychology of Women (3 Credits)
Women’s experiences: childhood and adolescence, work, family, cultural images, adjustment, and social change.
Cross-listed course: WGST 310
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PSYC 320 - Psychology of Religion (3 Credits)
The development of the religious consciousness and its various expressions, the psychological dynamics of growth and conversion, response to crisis, and the relation of spiritual practice to health and wholeness.
Cross-listed course: RELG 361

PSYC 330 - Psychology and the African-American Experience (3 Credits)
Psychological theory and research as it applies to African Americans. Explores Africentric and other perspectives and roles of culture, racism, and historical phenomena.
Cross-listed course: AFAM 330
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

PSYC 350 - Industrial Psychology (3 Credits)
Psychological techniques applied to various industrial problem areas, such as management and supervision, morale, efficiency, training, personnel selection and placement, and relations among personnel.

PSYC 360 - Applied Psychology (3 Credits)
Uses of psychological knowledge and techniques in practical contexts; clinical, school, industrial, consumer, and environmental psychology.

PSYC 370 - Psychology of Consciousness (3 Credits)
Theories, controversies, and research findings on the nature of various states of consciousness; topics such as sleep/dreams, hypnosis, drug-induced states, and psychic phenomena.
PSYC 380 - Sport Psychology (3 Credits)
The role of sports in socialization, personality development and competence, including: spectator-performer interactions, motivation, competition effects; and the application of psychological techniques to performance enhancement.

PSYC 399 - Independent Study (1-6 Credits)
Closely supervised project or research experience in psychology. Approved contract required. May be repeated for up to six credits. Not for psychology major credit.
Prerequisites: PSYC 101.

Graduation with Leadership Distinction: GLD: Research

PSYC 400 - Survey of Learning and Memory (3 Credits)
Research and applications concerning the acquisition of new behavior and knowledge, including accounts based on classical and instrumental conditioning and on information-processing models.
Prerequisites: PSYC 101 or SCHC 130.

PSYC 405 - Cognitive Psychology (3 Credits)
Research and theories on sensory memory, attention, short-term and working memory, human learning and forgetting, imagery; long-term memory; speech perception, reading, language, thinking and problem solving, and decision making.

PSYC 410 - Behavioral and Mental Disorders (3 Credits)
Covers the classification, diagnosis, etiological theories, and treatments of the major mental and emotional disorders.
Prerequisites: PSYC 101 or SCHC 130.

PSYC 420 - Survey of Developmental Psychology (3 Credits)
Psychological development from conception to late adulthood. Topics include physical, cognitive, and social processes associated with development at each stage of the life cycle.
Prerequisites: PSYC 101 or EDPY 335 or SCHC 130.

PSYC 430 - Survey of Social Psychology (3 Credits)
Introduction to theory and research in social psychology from a psychological viewpoint. Topics include social perception, social cognition, attitudes, interpersonal relationships, aggression, prosocial behavior, and group processes.
Prerequisites: PSYC 101 or SCHC 130.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PSYC 432 - Men and Masculinity (3 Credits)
This course provides an overview of psychological, social, physical, and emotional issues related to men's lives. Major topics include: gender construction, men and work, men and health, men in relationships, male sexualities, men in families, and masculinities in the media and popular culture.

PSYC 440 - Survey of Personality (3 Credits)
Covers the major theories and research on personality and the dynamics of human motivation.
Prerequisites: PSYC 101 or SCHC 130.

Graduation with Leadership Distinction: GLD: Research

PSYC 450 - Sensation and Perception (3 Credits)
Processing of information from the environment. Physiological, physical, psychological, and contextual determinants of perception.
Prerequisites: PSYC 101 or SCHC 130.

PSYC 455 - Introduction to Neuroscience (3 Credits)
Function of the brain including basic neuroanatomy, neurophysiology and neurochemistry, neural systems, and psychopharmacology as it relates to behavior.

PSYC 460 - Brain and Behavior (3 Credits)
How the brain mediates simple and complex behavior and how we can apply basic research about the brain to real world problems.
Prerequisites: PSYC 101 or SCHC 130.

PSYC 465 - Health Psychology (3 Credits)
Application of psychological theories and assessment and treatment methodologies for health maintenance and the diagnosis and treatment of illness.
Prerequisites: PSYC 101 or SCHC 130

PSYC 470 - Introduction to Language Sciences (3 Credits)
Introduction to the linguistic component of human cognition. Properties of speech, the organization of language in the mind/brain, cross-linguistic universals, child language acquisition, and aspects of adult language processing.
Cross-listed course: ANTH 373, LING 300

PSYC 474 - Cognitive and Social Aspects of Bilingualism (3 Credits)
Bilingual language development, social and cultural aspects of bilingualism, the bilingual brain, bilingualism throughout the lifespan.

PSYC 475 - Survey of Clinical Psychology (3 Credits)
The scientific basis of clinical psychology. Topics include history, theory, research, ethics, and best practices. For students interested in graduate school in psychology or other mental health professions.
Prerequisites: B or better in PSYC 228 and PSYC 410.

PSYC 480 - Multi-Cultural Psychology (3 Credits)
This course provides an introduction to theories and research in the study of psychosocial issues of racial, ethnic and cultural groups.
Prerequisites: PSYC 101.

PSYC 487 - Community Psychology (3 Credits)
Application of knowledge from other areas of psychology to the study of the role of the individual in the community.
Prerequisites: PSYC 101 or SCHC 130 and at least 3 hours in psychology at 400 level or above.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Research

PSYC 489 - Community Psychology Practicum (3 Credits)
Supervised, structured field experience in a community agency, applying psychological principles, theory, and research. May be repeated once for credit.
Prerequisites: 15 hours in psychology.


PSYC 495 - Internship in Psychology (1-6 Credits)
A supervised experiential course in psychology. Contract approved by instructor, advisor, and Office of Academic Programs is required for undergraduate students.
Prerequisites: C or better in PSYC 226.
PSYC 498 - Advanced Independent Study (1-6 Credits)
Closely supervised project or research experience in psychology. Approved contract required. May be repeated for up to six credits.
Prerequisites: 9 hours of psychology.
Graduation with Leadership Distinction: GLD: Research

PSYC 501 - Human Factors Psychology (3 Credits)
Application of research in experimental psychology to ergonomics, the design of human-environment systems, with emphasis on work settings.
Prerequisites: PSYC 101 and 9 hours of upper-level courses all in psychology, business, engineering, or nursing.

PSYC 503 - Psychology of Drug Use and Effects (3 Credits)
Research and theoretical considerations of substance abuse. Pharmacological, sociological, psychological, medical, economic, forensic, and other relevant research and treatment disciplines.
Prerequisites: PSYC 450 or PSYC 455 or PSYC 460.

PSYC 506 - Psychology of Language (3 Credits)
Theories of speech perception, linguistic theories of syntax and semantics, the brain mechanisms underlying language, the development of language in children, and the role of language in thought.
Cross-listed course: LING 567

PSYC 507 - Cognitive Neuroscience (3 Credits)
Research and theories on the role of the brain in facets of cognitive behavior, including attention, short-term and working memory, perception, language, executive function, thinking, and problem solving.
Prerequisites: C or better in PSYC 405, highly recommended PSYC 455 or PSYC 460.

PSYC 510 - Child Behavioral and Mental Disorders (3 Credits)
Theories, description, and assessment of child behavior problems and disorders; methods of intervention.
Prerequisites: PSYC 420 or PSYC 410.
Graduation with Leadership Distinction: GLD: Community Service

PSYC 520 - Psychology of Child Development (3 Credits)
Examination of development from conception through older childhood. Specific cognitive and social processes will be given in-depth study.
Prerequisites: PSYC 420.

PSYC 521 - Psychology of Adolescence (3 Credits)
Theories and research examining social, emotional, and intellectual development in adolescence. Explores influence of family, peer, school, and cultural contexts.
Prerequisites: PSYC 420.

PSYC 522 - Psychology of Early and Middle Adulthood (3 Credits)
Developmental changes in abilities, personality, and behavior which occur between adolescence and old age.
Prerequisites: PSYC 420.

PSYC 523 - Psychology of Aging (3 Credits)
Psychological, social, and biological phenomena associated with maturity and aging.
Prerequisites: PSYC 420.

PSYC 524 - Nature of Students with Mental Retardation (3 Credits)
Nature and causes of mental retardation; behavior and potentialities of persons with mental retardation.
Prerequisites: a course in the areas of child psychology-child development.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

PSYC 525 - The Psychology of the Midlife Woman (3 Credits)
Biological, social, and psychological aspects of the midlife woman.
Cross-listed course: WGST 525
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PSYC 526 - Prevention of Psychological Problems in Children and Youth at Risk (3 Credits)
Etiology, prevention of, and intervention in behavioral, social, emotional, educational, and psychological problems in children and youth at risk.
Prerequisites: PSYC 410 or PSYC 420 or equivalent.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

PSYC 528 - Psychology of Children with Exceptionalities (3 Credits)
Characteristics, causes, needs, and intervention strategies for children with a broad range of exceptionalities including mental, physical, social/emotional difficulties and atypical gifts and talents.
Prerequisites: PSYC 420 or PSYC 520.

PSYC 529 - Nature of Students with Specific Learning Disabilities (3 Credits)
Children with average/above average intelligence and specific learning impairments; diagnostic and remedial techniques. Offered by both the College of Education and the Department of Psychology.
Prerequisites: EDEX 523 or PSYC 528.
Cross-listed course: EDEX 531

PSYC 530 - Advanced Social Psychology (3 Credits)
Intensive study of topics selected from the field of social psychology.
Prerequisites: PSYC 430.

PSYC 550 - Advanced Sensation and Perception (3 Credits)
Intensive study of topics selected from the field of sensation and perception.
Prerequisites: PSYC 450.

PSYC 560 - Advanced Topics in Neuroscience (3 Credits)
Intensive study of topics selected from the field of neuroscience.
Prerequisites: PSYC 455 or PSYC 460.

PSYC 565 - Psychology of Physical Activity (3 Credits)
Introduction to psychosocial factors in physical activity. Topics include mental health effects of exercise, behavior change theories applied to physical activity, and physical activity determinants and interventions.
Prerequisites: PSYC 101, PSYC 228.

PSYC 570 - Neuroscience Laboratory (3 Credits)
Practice in surgical, histological, and behavioral testing methodology. Two lectures and one three-hour laboratory per week.
Prerequisites: PSYC 460.
PSYC 571 - Cognitive Neuroscience Laboratory (3 Credits)
Methods of observation and experimentation in cognitive neuroscience. Two lectures and one three-hour laboratory per week.
Prerequisites: PSYC 227 and C or better in two courses from PSYC 405, PSYC 450, PSYC 455, PSYC 460, or PSYC 507.
Prerequisite or Corequisite: one course from PSYC 400, PSYC 405, PSYC 450, PSYC 455, or PSYC 460.

PSYC 572 - Cognitive Psychology Laboratory (3 Credits)
Practice in the experimental techniques used in the study of cognitive psychology. Two lectures and one three-hour laboratory per week.
Prerequisite or Corequisite: PSYC 405.

PSYC 574 - Sensation and Perception Laboratory (3 Credits)
Concepts and principles in the study of sensation and perception in the laboratory. Two lectures and one three-hour laboratory per week.
Prerequisite or Corequisite: PSYC 450.

PSYC 575 - Developmental Psychology Laboratory (3 Credits)
Methods of observation and experimentation on human psychological development. Two lectures and one three-hour laboratory per week.
Prerequisites: PSYC 226 and PSYC 227.
Prerequisite or Corequisite: PSYC 420 or PSYC 520.

PSYC 580 - Intermediate Statistics for Psychologists (3 Credits)
Advanced analysis of the uses and applications of statistics to research in psychology, and interpretation of statistics in the psychological literature.
Prerequisites: B or better in PSYC 227.

PSYC 583 - Psychological Tests and Measurement (3 Credits)
Introduction to the theory and practice of measuring psychological attributes. Emphasis on test construction in a laboratory setting. Hands-on experience in designing, administering, and analyzing psychological tests and measures.
Prerequisites: B or better in PSYC 227 and PSYC 228.

PSYC 584 - History and Systems of Psychology (3 Credits)
Systematic approaches to psychology.
Prerequisites: 9 hours in psychology at 400 level or above.

PSYC 585 - Advanced General Psychology (3 Credits)
Review and integration of general principles of psychology. Primarily for students planning graduate study in psychology.
Prerequisites: 12 hours in psychology courses numbered above 300.

PSYC 589 - Selected Topics in Psychology (3 Credits)
Course content varies and will be announced in the schedule of classes by title.

PSYC 598 - Individual Research (3 Credits)
Planning and execution of supervised research in psychology. Approved contract required.
Prerequisites: 15 hours of psychology.

PSYC 599 - Individual Research (3 Credits)
Planning and execution of supervised research in psychology. Approved contract required.
Prerequisites: 15 hours of psychology.

Public Health (PUBH)
PUBH 302 - Introduction to Public Health (3 Credits)
An introduction to the history, theory, and practice of public health. Emphasis will be on the population perspective and the ecological model including the population impacts of health care systems.
PUBH 399 - Independent Study in Public Health (1-3 Credits)
Contract approved by instructor, advisor, and dean of the Arnold School is required for undergraduate students. May be repeated for up to 6 credits.
PUBH 492 - Special Topics in Public Health (3 Credits)
Issues and emerging themes in public health. May be repeated for a total of 9 credit hours as content varies by title.
PUBH 498 - Public Health Capstone Seminar (3 Credits)
Synthesis and application of BS/BA public health program content and competencies in a practice setting with emphasis on student identified areas for professional growth.
Prerequisites: PUBH 302.

Graduation with Leadership Distinction: GLD: Community Service
Experiential Learning: Experiential Learning Opportunity

PUBH 499 - Foundations of Public Health Leadership (3 Credits)
An introduction to core principles in public health leadership. Areas included are ethics, public health issues, communication issues, leadership competencies, and leadership values.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

PUBH 678 - Transforming Health Care for the Future (1 Credit)
Foundation for beginning health professions students to gain an understanding of the complexities of the health care system through experiential activities conducted in interprofessional teams and the importance of interprofessional collaboration in order to improve the system.
Cross-listed course: SOWK 678

Reading (EDRD)
EDRD 345 - Teaching Reading in Early Childhood Education I (3 Credits)
Theory and practice in the teaching of reading for children from birth through age eight for undergraduate majors in early childhood.
Prerequisites: Admission to the professional program in Early Childhood Education.
Corequisite: EDEC 342, EDEC 342P, EDEC 344 and EDEC 347.

EDRD 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

EDRD 430 - Elementary Literacy Instruction I (6 Credits)
Examination and implementation of the key concepts, content, goals, and strategies in teaching reading and the language arts in the elementary school. Students will work with elementary children in a school setting to learn literacy concepts and instructional strategies. Admission to the B.A. program in elementary education, children's literature course. Designated for undergraduate students seeking initial certification.
EDRD 431 - Reading Assessment (3 Credits)
Seminar and supervised one-on-one field experience focused on reading assessment of and instruction for individual children and groups of children. Restricted to: Undergraduate students pursuing teacher certification.
Prerequisites: admission to the professional program.

EDRD 445 - Teaching Writing in Early Childhood Education (3 Credits)
Theory and practice in the teaching of writing for children from birth through age eight. For undergraduate majors in early childhood education including literacy practicum. Restricted to: Early Childhood Education Majors.
Prerequisites: EDRD 345.
Corequisite: EDEC 443.

EDRD 500 - Content Area Literacy PK-12 (3 Credits)
A survey of research and practice which facilitates students' literacy skills in the content areas. For K-12 content area teachers of art, dance, physical education, foreign language, music and theatre.

EDRD 511 - Teaching Reading to Adults I (3 Credits)
Diagnostic and prescriptive modes of teaching reading to adults, based on the physical, psychological, intellectual, and social characteristics of the adult learner.

EDRD 512 - Teaching Reading to Adults II (3 Credits)
Preparation of materials for teaching basic reading skills to adults and practicum experiences in teaching adults to read.
Prerequisites: EDCO 511 or EDRD 511.

EDRD 514 - Teaching of Reading in the Elementary School (3 Credits)
Study of the various phases of reading in their relation to a modern program of education and the place of reading in the curriculum. Emphasis on modern practices in the classroom teaching of reading.

EDRD 518 - Reading in the Secondary School (3 Credits)
The place of reading instruction in high schools, the programming of special services in reading instruction, methods of teaching basic and developmental reading skills, and case studies of programs. Demonstrations of tests and devices.

EDRD 600 - Foundations of Reading Instruction (3 Credits)
An overview of reading and its curriculum implications: grades K-12 and adults. Emphasis is placed on current trends and issues and related methodologies.

EDRD 650 - Teaching Reading Through A Literature Emphasis (3 Credits)
Integrating appropriate literature into traditional and alternative reading programs. Identifying appropriate literature for classroom use and recreational reading. Use of literature as a means of developing and reinforcing reading skills.

EDRD 651 - Introduction to Teaching Media Literacy (3 Credits)
A survey of analysis of electronic and non-print media themes and messages aimed at youth, with special emphasis on design and implementation of curricula for enhancing children's media literacy.

EDRD 690 - Independent Study (1-3 Credits)

Religious Studies (RELG)

RELD 101 - Exploring Religion (3 Credits)
Beliefs and practices of the world's religions and the methods scholars use to study them.
Carolina Core: GSS

RELD 120 - Comparative Religion (3 Credits)
Issues, theories, and debates that shape global religious traditions, cultures, and communities; examination of historical contexts and development, applying social scientific inquiry and methods to analyze relevant current circumstances and concerns.

RELD 201 - Religion and Culture (3 Credits)
Exploration of the dynamic relationships between selected religions and cultures.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

RELD 202 - Introduction to Reason and Faith (3 Credits)
Critical study of the intellectual strands leading to Western disconnections between reason and faith; the search for balance between belief and reason with emphasis on contemporary developments.

RELD 204 - Introduction to Religions in America (3 Credits)
The diversity of religious traditions in America.

RELD 205 - Morality, Ethics, and Religion (3 Credits)
Values and ethics as developed, contested, and transmitted through a variety of religious practices.
Carolina Core: VSR

RELD 206 - History of the Devil (3 Credits)
A survey of the beliefs and practices associated with the demonic and the Devil from c 500 B.C.E. to the 20th century.
Cross-listed course: HIST 215

RELD 207 - Introduction to African American Religions (3 Credits)
The variety of religious traditions of African Americans, with emphasis on the contexts in which they developed.
Cross-listed course: AFAM 207
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

RELD 208 - Biblical Archaeology (3 Credits)
The fundamental elements of human culture as it relates to biblical archaeology. The defining characteristics of different kinds of society through interdependency of language and culture. The affects of modern world interests in defining / redefining this area.
Cross-listed course: ANTH 226

RELD 210 - Introduction to Hinduism (3 Credits)
An interdisciplinary examination of the complexity of the Hindu religious and philosophical traditions covering such topics as deity, self, cosmos, body ritual, karma, and yoga.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELD 219 - Ethics and the Good Life in Asian Religions (3 Credits)
Fundamental questions of ethical and moral inquiry in the religious traditions of Asia.

RELD 220 - Introduction to Buddhism (3 Credits)
An introduction to Buddhism from a social historical perspective that examines Buddhist religious goals and practices in the local contexts of India, Sri Lanka, Tibet, China, and Japan.
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences
and his continuing influence today.

Christian churches, his role in the expansion of the Christian movement, and his continuing influence today.

Cross-listed course: JSTU 230

RELG 240 - Introduction to Christianity (3 Credits)
Introduction to the Christian religion, with emphasis on the history of the major traditions and movements that have shaped the multiculturals practices and social impact of modern global Christianity.

RELG 250 - Introduction to Islam (3 Credits)
Interpretation of primary materials reflecting many dimensions of the Islamic religious tradition, such as the Qur'an, Hadith, legal, and theological and mystical writings, art, rituals, and contemporary Muslim voices.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 260 - Anthropology of Magic and Religion (3 Credits)
A comparative examination of such topics as ritual, cosmology, revitalization movements, magic, witchcraft, myth, and possession.

Cross-listed course: ANTH 206

RELG 261 - Global Human Religiosity (3 Credits)
The human experience and expression of what it means to be religious.

RELG 270 - Religion and the Arts (3 Credits)
Literary, visual, and/or performance art associated with religious discourse and practice.

Carolina Core: AIU

RELG 291 - Special Topics in Religious Studies (3 Credits)
Special topics in Religious Studies. May be repeated as content varies by title.

RELG 301 - Hebrew Bible (Old Testament) (3 Credits)
Modern study of the Hebrew Bible from historical, literary, and archeological points of view. Reading and analysis of texts in translation.

Cross-listed course: JSTU 301

RELG 302 - New Testament (3 Credits)
Historical and critical study of the New Testament writings, with emphasis on origins, production, and transmission.

RELG 310 - Paul and the Philosophers (3 Credits)
Paul's teachings and practices, as shown in his letters and how these resemble those of various cultural formations of his time, with emphasis on moral teachings and schools of Hellenistic philosophy.

RELG 311 - Gospel Literature and the Formation of Christianity (3 Credits)
Gospels about Jesus from the 1st and 2nd centuries CE; analysis with attention to canonical texts as well as those not contained in today's major canonical collections; assessment of gospel literature in competing configurations of Christianity during its formative years.

RELG 312 - The Life and Letters of Paul (3 Credits)
A critical study in the life and thought of Paul, his letters to the early Christian churches, his role in the expansion of the Christian movement, and his continuing influence today.

RELG 313 - The Writings of John the Apostle (3 Credits)
Writings of the Apostle John in the context of first century Mediterranean history as well as the changing interpretations over the centuries up to and including current methodologies of academic study of these ancient texts.

RELG 314 - Religion and Culture (3 Credits)
The impact of religion on modern Western culture and, in turn, of culture on religion. Selected topics: Holocaust, Puritanism, fundamentalism, Islam, Freud, "love" wisdom tradition, "civl religion."

RELG 315 - Early Christianity (3 Credits)
Christianity in the 1st through 5th centuries; its formation as seen through the literature of early Christians and their detractors.

RELG 316 - Imagining Jesus: Antiquity to Present (3 Credits)
Conceptions and representations of Jesus in antiquity up to the present; including the gospel traditions as well as literature, art, and film.

RELG 320 - The Greek New Testament (3 Credits)
Readings in the Gospels and Epistles.

Prerequisites: GREK 121 and GREK 122.

Cross-listed course: GREK 305

RELG 321 - Old Testament Prophets (3 Credits)
Old Testament prophets, the nature of their prophetic experience, their place in the life of ancient Israel, their message, and their continuing theological significance.

RELG 332 - Christian Theology (3 Credits)
Basic Christian teachings concerning God, creation, sin, the person and work of Christ, and life after death.

RELG 333 - Sex, Gender, and Religion (3 Credits)
Gender and sexuality in the shaping of social and individual identity in religious contexts.

Cross-listed course: WGST 333

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

RELG 334 - Asian Religious Philosophy (3 Credits)
A historical overview and critical introduction to the philosophical practices of Asian religions; an examination of the basic worldviews, thought frameworks, and foundational questions of the main schools of premodern Asian religious philosophy.

Cross-listed course: PHIL 315

RELG 335 - Christian Ethics (3 Credits)
Basic Christian teachings concerning human nature and conduct; historical foundations and contemporary applications.

RELG 336 - Social Justice & Religion (3 Credits)
Historical, contextual, and developmental aspects of social justice as a significant function of religion.

RELG 337 - Religion and Politics (3 Credits)
Relationships between religion and the structure, institutions, and content of a nation's political processes.

RELG 338 - Sociology of Religion (3 Credits)
Sociological perspectives related to selected aspects of religious behavior. Includes references to non-Western religions.

Cross-listed course: SOCY 307

Carolina Core: GSS

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy
RELG 339 - Law and Religious Traditions (3 Credits)
The study of the role of law, legal argumentation, and legal contexts in one or more religious traditions.

RELG 340 - God and the Gods (3 Credits)
The worship of Yahweh and other deities in ancient Israel with special attention to the evolution of monotheism.

RELG 343 - Religions of the African Diaspora (3 Credits)
Explore development/theologies of African/African Diaspora religions; examine misunderstandings; arrive at a more sophisticated and nuanced vision of these religions and the people who hold them.

Cross-listed course: AFAM 343

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 344 - Hindu Devotional Traditions (3 Credits)
One of the main paths to the divine in the Hindu tradition; deep devotion to a god or goddess, or bhakti, with expressions in art, poetry, mythology, theology, and ascetic fervor.

Prerequisites: At least one 100- or 200-level Religious Studies course.

RELG 349 - Tantra: Sex, Power, and Bliss in South Asian Religions (3 Credits)
Investigation of the Buddhist and Hindu religious ideas and practices known as tantra. Topics include tantric views of the human body, freedom, and consciousness; tantric use of sex, imagination, visualization, and manipulation of bodily energy; role of tantric traditions in south Asian religions and cultures.

RELG 350 - Buddhist Stories, Poetry, and Films (3 Credits)
Buddhist stories, poetry, novels, and films from various cultures and times examined for how they creatively convey their religious ideals. Study of great works of Buddhist writing, in English translation, analyzing their techniques and examining how Buddhists use film today for similar aims.

RELG 351 - Yoga: The Art of Spiritual Transformation (3 Credits)
Examination of major South Asian religions—Hinduism, Jainism, Buddhism, and Islam, emphasizing the historical context for changing religious ideals, and the commingling of traditions.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 352 - Religions of East Asia (3 Credits)
Expansion of Buddhism beyond India, development of Confucianism, Taoism, Shinto, and other national religious expressions in China and Japan.

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 354 - Islamic Institutions and Traditions (3 Credits)
The religious, political, social and economic institutions and intellectual and scholarly traditions developed by Muslim societies throughout Afro-Eurasia from late antiquity to the present.

Cross-listed course: HIST 386

Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RELG 358 - The Qur'an and Hadith (3 Credits)
Intensive study of the Qur'an and Hadith: its major themes and literary quality, with attention to a range of classical and contemporary discourses about the Qur'an, both Islamic and Western.

Graduation with Leadership Distinction: GLD: Global Learning

RELG 359 - Islamic Theology and Philosophical Thought (3 Credits)
Close reading and discussion of primary texts (the Qur'an, Hadith, creeds, classical theological arguments, and modern writings) on major theological problems such as salvation, God, revelation, and religious pluralism.

Graduation with Leadership Distinction: GLD: Global Learning

RELG 361 - Psychology of Religion (3 Credits)
The development of the religious consciousness and its various expressions, the psychological dynamics of growth and conversion, response to crisis, and the relation of spiritual practice to health and wholeness.

Cross-listed course: PSYC 320

RELG 362 - Science, Magic and Religion (3 Credits)
Occultism as a link between science and religion and its central role in Western intellectual and cultural history; the historical development of the science-magic-religion continuum in the Islamo-Christian world from late antiquity to present.

Cross-listed course: HIST 389

RELG 367 - Sufism (3 Credits)
A survey of Islamic mysticism, its foundation in the Quranic revelation doctrines and practices, subsequent development, significance within Islamic civilization, and role in the contemporary world, both Islamic and non-Islamic.

Graduation with Leadership Distinction: GLD: Global Learning

RELG 368 - Messiahs, Mystics and Rebels in the Islamic World (3 Credits)
Representative messianic movements, millenarian visionaries and apocalyptic imaginings in the Islamic world from the 7th century to the present, with attention to related developments in the Jewish and Christian traditions over the last two millennia.

Cross-listed course: HIST 387

RELG 369 - Islamic Law (3 Credits)
Close reading and discussion of primary texts (scriptural, classical, and modern) and accounts of court cases, focuses on one aspect of Islamic law such as equity, violence, authority, or gender.

Graduation with Leadership Distinction: GLD: Global Learning

RELG 372 - Religion and Existentialism (3 Credits)
Existentialist thought as adapted by theologians to interpret religious experience and the biblical message. The movement from philosophical protest against essentialism into imaginative description of existence revealed under stress.

RELG 373 - Literature and Film of the Holocaust (3 Credits)
Film, poetry and literature created in response to the Holocaust as the means for a decades long cultural discussion, in European and American societies, of the moral and religious implications of the Holocaust on our self-understandings as religious and moral beings.

Cross-listed course: JSTU 373

Graduation with Leadership Distinction: GLD: Global Learning

RELG 374 - Religion in the South (3 Credits)
RELG 376 - Holy Women (3 Credits)
Holy women from various periods and religious traditions, and how they demonstrate the different ways communities understand ideas of holiness, from piety, martyrdom, monasticism and mysticism to social action.
Cross-listed course: WGST 376
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

RELG 377 - Religion and Literature (3 Credits)
Classic literary works from one or more religious traditions which have shaped and/or expressed the core ethos of a religious tradition or of the more general human concern for the religious and spiritual; and/or general literature (fiction, poetry, plays, essays, non-fiction) which incorporates religious or spiritual references, ideas, symbolism, allusions.

RELG 381 - Jewish History I: Late Antiquity to 1500 (3 Credits)
The religious, cultural, social, and political conditions that shaped the Jewish experience in the Near East and Europe from late antiquity to 1500.
Cross-listed course: HIST 383, JSTU 381

RELG 382 - Jewish History II: 1500 to the Present (3 Credits)
Case studies of Jewish history in Europe, America, and the land of Israel, 1500 to the present.
Cross-listed course: HIST 384, JSTU 382

RELG 387 - Jews and Muslims (3 Credits)
Jewish-Muslim relations in the Near East and the US; an exploration of Jewish-Muslim encounters, issues of religious law, politics, radical religious ideologies, and their repercussions for today.
Cross-listed course: JSTU 387
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

RELG 388 - Kabbalah: Science, Religion and Nature in Western History (3 Credits)
Historical investigation of kabbalah, a philosophical system and mystical current common to Judaism, Islam and Christianity, from the medieval period to the present; focus on its formative role in early modern Western cosmology and science, and its ecological implications today.
Cross-listed course: HIST 388, JSTU 388

RELG 390 - Theories of Religion (3 Credits)
A historical overview of major theories and approaches in the academic study of religion.

RELG 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

RELG 410 - Origins of Western Morality (3 Credits)
Greek and Roman ethical theory, its adaptation into Judean and Christian traditions and impact on Western models of morality.

RELG 412 - Faith, Doubt, and God (3 Credits)
Judeo-Christian views of God; modern criticism and contemporary responses.

RELG 471 - Interfaith Dialogues in the 21st Century (3 Credits)
The variety of contemporary discourse on interfaith issues and views of the diversity and range of religions with particular emphasis on global dynamics of religious dialogues.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

RELG 472 - Religion and Science: Human Questions (3 Credits)
Relationships between religion and science, especially considering impacts of mutual responses and questions with respect to human life in the 21st century.

RELG 473 - Religions, Medicines, and Healing (3 Credits)
Inter-relationships between religion, medicines, and healing; examining perspectives and practices, interfaces and influences across cultures.

RELG 474 - Spiritual Lives (3 Credits)
Contemporary and historical life-stories about spiritual or religious figures as presented in various forms such as biography, autobiography, hagiography, art, and/or film; explores both the specific issues within unique accounts and idealized, general models for spiritual lives.

RELG 475 - Visions of Apocalypse (3 Credits)
Symbolic visions, tours of heaven and hell, cosmic battles, divine judgment, messianic figures, prophecy, or other forms of revelation as found in literature, art, or social movements from diverse geographical and historical locations.
Cross-listed course: JSTU 475

RELG 488 - Perspective in Religious Studies (3 Credits)
Build an understanding of the contexts of religious studies; participate in ongoing scholarly discussions; and expand the serious student's skills in critically analyzing religions.

RELG 491 - Advanced Special Topics in Religious Studies (3 Credits)
Advanced special topics in Religious Studies. May be repeated as content varies by title.

RELG 492 - Special Topics in Research in Religious Studies (1 Credit)
Focused research on special topics in Religious Studies. May be repeated as content varies by title.

RELG 498 - Advanced Project (3 Credits)
A supervised research project or other creative work, required of intensive majors, to be completed in the senior year.
Graduation with Leadership Distinction: GLD: Research

RELG 514 - The Quest of the Historical Jesus (3 Credits)
Examination of studies on the historical Jesus from 1778 to the present. Attention given to the relationship between "the Jesus of history" and "the Christ of faith".

RELG 551 - Tradition and Transformations in Islamic Cultures (3 Credits)
Islam as a dynamic cultural tradition: emphasis on the tension between Islamization and the larger Islamic tradition.
Cross-listed course: ANTH 515
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

RELG 552 - Buddhist Studies Seminar (3 Credits)
The examination of a theme or problem central to the study of Buddhism in a seminar emphasizing intensive reading and creative discussion. Course may be repeated since topics change.

Research & Measurement (EDRM)

EDRM 423 - Introduction to Classroom Assessment (2 Credits)
Development of assessments for different content areas and grade levels, and processes for making decisions based on assessment results.

EDRM 520 - Introduction to Testing and Evaluation (3 Credits)
The construction and use of teacher-made tests; descriptive statistics, measurement error, norms, and interpretation of scores; types of standardized instruments for use in elementary and secondary schools.
EDRM 690 - Independent Study (1-3 Credits)

Retailing (RETL)

RETL 115 - Fashion History: A Global View (3 Credits)
Examination of influences on fashion throughout history both domestically and globally.

RETL 116 - Fashion Through the Ages: 1800 A.D. to Present (3 Credits)
Introduction to the history of fashion from 1800 A.D. to the present.

RETL 201 - Exploration of Retail Management and Fashion Merchandising Industries (3 Credits)
Exploration of retail management and fashion merchandising curriculum and careers.

RETL 216 - History of Designers (3 Credits)
Survey of influential fashion designers since 1857, examining their design influences and their contributions to fashion.

RETL 237 - The Changing Consumer Marketplace (3 Credits)
The economic problems of everyday life presented within a business framework, promoting the student's well-being as a consumer. Consideration is given to the economics of consumption, real income, consumer buying, consumer protection, operations leading to family prosperity, security, and estate planning.

RETL 242 - HRSM Professional Communications (3 Credits)
Theory, processes, and applications of business communications.
Prerequisites: C or better in ENGL 101 and ENGL 102.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

RETL 250 - Sustainability in Fashion and Retail (3 Credits)
Examination of concepts, practices, and opportunities of fashion sustainability (such as social and environmental responsibility) available to designers, developers and consumers.

RETL 261 - Principles of Accounting I (3 Credits)
A study of the accounting cycle with emphasis on preparation and analysis of financial statements.

RETL 262 - Principles of Accounting II (3 Credits)
A study of the preparation and interpretation of corporate financial statements with an emphasis on analysis and decision making techniques.
Prerequisites: RETL 261.

RETL 265 - Principles of Retailing (3 Credits)
Management methods, location analysis, store organization, personnel, planning, buying and pricing techniques, and customer service policies for retail firms.

RETL 268 - Principles of Fashion Merchandising (3 Credits)
The place of fashion in buying, selling, and promoting merchandise. Meets the needs of individuals in retail organizations from entry level to buyer.

RETL 295 - Retailing Practicum (1-6 Credits)
Supervised work experience in an area of the retail industry, selected by the student and approved by the instructor. May be repeated up to a maximum of 6 hours.
Prerequisites: RETL 265.

RETL 310 - Digital Retailing (3 Credits)
Development of a comprehensive plan for implementing a retail business online via digital technology.
Prerequisites: RETL 265.

RETL 330 - Asset Protection for Retailers (3 Credits)
Examination of asset protection and risk management issues which affect the retailing industry, such as retail risk assessment and response, loss prevention, employee-related risks, facility security, crisis management, and intellectual property protection.
Prerequisites: RETL 265.

RETL 344 - Personnel Organization and Supervision (3 Credits)
Recruitment, selection, utilization, and development of human resources; role of supervisors in management and personnel administration. Cross-listed course: HRTM 344

RETL 350 - Sales Strategies (3 Credits)
Theories, principles, and techniques of personal selling with application to different buyer-seller situations.

RETL 351 - Retail Entrepreneurship (3 Credits)
Essentials of creating and operating a new retail venture in physical and virtual environments.

RETL 362 - Principles of Customer Service (3 Credits)
Essential skills necessary to manage successful service operations, including retail, e-commerce, hospitality/tourism, food/beverage, and sports/event organizations.

RETL 365 - Visual Merchandising and Store Design (3 Credits)
Displays and visual merchandising strategies.

RETL 366 - Retail Buying (3 Credits)
Planning, purchasing, and controlling inventories.
Prerequisites: RETL 261.

RETL 368 - Fashion Product Analysis (3 Credits)
Analysis of fashion products with emphasis on textile selection, product construction, life cycle, cost elements, and the changing demographics of the fashion consumer.

RETL 369 - Retail Promotion (3 Credits)
Planning and executing retail promotion strategies.

RETL 371 - Advanced Retail Accounting (3 Credits)
Accounting topics related to retail establishment with emphasis on managerial interpretation and use.

RETL 385 - Global Sourcing in Retail and Fashion (3 Credits)
Exploration of theoretical, political, economic, social, and environmental implications of global sourcing decisions in retail and fashion.
Prerequisites: D or better in RETL 261 and RETL 265.

RETL 388 - Fashion Forecasting (3 Credits)
Forecasting fashion trends to impact retail merchandising performance.

RETL 399 - Independent Study (1-6 Credits)
Contract approved by instructor, advisor, and department head is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

RETL 425 - Customer Experience Management (3 Credits)
Study of customer trends and experience management.
Prerequisites: C or better in RETL 265.

RETL 460 - Retail Branding Strategies (3 Credits)
Overview of retail branding strategies with emphasis on implications of the development of brand equity towards increasing customer loyalty.
RETL 462 - Merchandise Management Strategies (3 Credits)
The knowledge of the principles of merchandising as applied in manufacturing and retailing business organization and understanding of the retail buyer's role in merchandise management including merchandise planning, negotiating, buying, pricing, assorting, and timing.
Prerequisites: RETL 366 and RETL 368.

RETL 472 - Category Management (3 Credits)
Application of category management principles and models to competitive behavior in retailing with a focus on product category issues. Case-based analysis and/or JDA computer software will be applied to industry-specific problems related to inventory management.
Prerequisites: C or better in RETL 265.

RETL 485 - Multi-National Retailing (3 Credits)
Retail operations within foreign environments.

RETL 487 - Retail Management Strategies (3 Credits)
Application of strategic management principles and models to competitive behavior in retailing.
Prerequisites: RETL 366.

RETL 495 - Retailing Internship (6 Credits)
Supervised work experience in the retail industry that links classroom learning and student interest with the acquisition of knowledge in an applied work setting.
Prerequisites: RETL 295.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

RETL 525 - Legal Aspects of Entrepreneurship and E-Commerce (3 Credits)
Examination of domestic and international laws affecting retail entrepreneurship and online commerce, such as data privacy and breach response, intellectual property protection, sales tax, advertising and unfair trade practices, consumer protection laws, employment laws, and legal obligations involving physical locations.
Prerequisites: SPTE 240 or equivalent.

RETL 530 - Fashion and the Law (3 Credits)
Examination of domestic and international laws which affect the fashion industry, such as intellectual property protection, licensing agreements, operational and marketing issues, and international trade.
Prerequisites: SPTE 240 or equivalent.

RETL 535 - Retail Logistics (3 Credits)
Examination of the flow of retail inventory from initial production to final purchase. Meets the needs of individuals in retail organizations from entry-level sales floor personnel to buyers. Students must be qualified to enroll in a 500 level course at The University of South Carolina.

RETL 551 - Retail and Fashion Business Planning (3 Credits)
Essential skills for building a new or expanding an existing retail or fashion business in both brick-and-mortar and online venues by developing a marketing plan and corresponding e-Commerce website for a business or fashion organization.
Prerequisites: RETL 351.

RETL 562 - Advanced Merchandising Management Strategies (3 Credits)
The analysis of assortment planning and inventory management of apparel products utilizing merchandising principles and industry software.

RETL 569 - Advanced Retail Promotion and Social Media Analytics (3 Credits)
Essential principles and analytical tools used in retail promotion; appraisal of methods and outcomes via field experiences, visuals, and simulations.

RETL 590 - Special Topics in Retail Management (3 Credits)
Course content varies. May be repeated once under a different title.

RETL 592 - Retailing/Fashion Merchandising Field Study (3 Credits)
Study of international/domestic fashion manufacturers, retailers, ancillary businesses, and selected resident buying offices. May be repeated once for credit. Must be in good standing with a 2.0 GPA or better; No pending or past judicial council infractions.

RETL 600 - Fundamentals of Omni-Channel Retailing (3 Credits)
Exploration of the fundamentals of Omni-Channel Retailing.

RETL 640 - Personnel Development & Relations Management (3 Credits)
Advanced examination of human resource management within retail organizations.

RETL 662 - Customer Relationship Management for the Retail Industry (3 Credits)
The analysis of customer relationship management for retailers utilizing merchandising principles and industry software.

Russian (RUSS)

RUSS 121 - Elementary Russian (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language.
Carolina Core: GFL

RUSS 201 - Intermediate Russian I (3 Credits)
Continued exposure to the fundamentals of Russian grammar, along with increased focus on reading and speaking skills.
Prerequisites: RUSS 122 or satisfactory score on language placement test.

RUSS 202 - Intermediate Russian II (3 Credits)
Completion of exposure to the fundamentals of Russian grammar, with emphasis on writing, reading, and conversation.
Prerequisites: RUSS 201 or satisfactory score on language placement test.

RUSS 280 - Introduction to Russian Civilization (3 Credits)
A multimedia introduction to Russian culture from its beginnings to the present. No knowledge of Russian required.
Carolina Core: AIU
Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

RUSS 298 - Selected Topics (1-3 Credits)
Introductory-level study of selected topics in Russian culture. Does not apply toward the Russian major. May be repeated for credit under a different title.
RUSS 301 - Russian Conversation and Composition I (3 Credits)
Conversation, reading, composition, comprehensive review of grammar.
Prerequisites: RUSS 202 or satisfactory score on language placement test.

RUSS 302 - Russian Conversation and Composition II (3 Credits)
Emphasis on oral proficiency, using contemporary authentic materials from Russian newspapers, textbooks, and television newscasts.
Prerequisites: RUSS 301 or satisfactory score on language placement test.

RUSS 319 - Nineteenth-Century Russian Literature in Translation (3 Credits)
Masterworks of Russian literature by Tolstoy, Dostoevsky, Turgenev, Pushkin, Chekhov, and others.
Graduation with Leadership Distinction: GLD: Global Learning

RUSS 320 - Twentieth-Century Russian Literature in Translation (3 Credits)
Masterworks of Russian literature by Bely, Pasternak, Bulgakov, Nabokov, Solzhenitsyn, and others.
Graduation with Leadership Distinction: GLD: Global Learning

RUSS 320L - Twentieth-Century Russian Literature in Russian (1 Credit)
A Russian-language course designed to supplement 319. Reading and discussion in Russian of 19th-century poetry and prose.
Prerequisites: RUSS 302.

RUSS 340 - Russian Shorts: Stories and Essays (3 Credits)
An examination of Russian short stories and essays by Russian writers from the nineteenth century to the twenty-first century.

RUSS 350 - Russian Folklore and Fairy Tales (3 Credits)
An introduction to Russian fairy tales and other genres of folklore, both in their original form within an oral tradition and as reworked in Russian art and literature.

RUSS 398 - Selected Topics (3 Credits)
Intensive study of selected topics in Russian cultural and/or literary movements. Taught in English. May be repeated for credit under a different title.

RUSS 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

RUSS 401 - Advanced Russian I (3 Credits)
Acquisition of subtleties of Russian grammar. Increased focus on reading, writing, and discussion.
Prerequisites: RUSS 302 or satisfactory score on language placement test.

RUSS 402 - Advanced Russian II (3 Credits)
Exposure to prose and poetry from a wide variety of sources and periods. Focus on oral proficiency, reading, comprehension, and writing.
Prerequisites: RUSS 401 or satisfactory score on language placement test.

RUSS 518 - Medieval Russian Culture (3 Credits)
An introduction to the culture of medieval Russia through its written records, folklore, icons, and ancient religious chant.

RUSS 520 - Russian Modernism: Love, Sex and Politics in Revolutionary Russia (3 Credits)
An exploration of Russian modernist culture, with particular attention to the themes of social and political change. Authors under discussion include Kuzmin, Bely, and Zamyatin.

RUSS 530 - Homer in Russia (3 Credits)
An examination of the influence of Homer’s epic poems The Iliad and The Odyssey on Russian culture, as seen in works by Russian writers including Tolstoy, Pasternak, and Brodsky.

RUSS 540 - Writing Russian National Identity (3 Credits)
An examination of Russian writers reflecting on Russian national identity, including Solzhenitsyn, Dostoevsky, and Grossman.

RUSS 598 - Selected Topics in Russian (3 Credits)
Reading and research on selected topics in Russian. Course content varies and will be announced in the schedule of courses by title.

RUSS 615 - Intensive Readings in Russian (3 Credits)
Intensive reading course for non-majors. Primarily for graduate students to fulfill the foreign-language reading requirement. It will not be applied toward the degree language requirements nor will it be accepted as a substitute in the course sequence leading to the various degree requirements.

RUSS 616 - Intensive Readings in Russian (3 Credits)
Intensive reading course for non-majors. Primarily for graduate students to fulfill the foreign-language reading requirement. It will not be applied toward the degree language requirements nor will it be accepted as a substitute in the course sequence leading to the various degree requirements.

Prerequisites: RUSS 615.
SCHC 110 - HNRS: Principles of Physics (4 Credits)
Must be taken in sequence. The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum. May be substituted for PHYS 212.

SCHC 115 - HNRS: Descriptive Astronomy (4 Credits)
Must be taken in sequence.

SCHC 115L - HNRS: Descriptive Astronomy Lab (0 Credits)

SCHC 116 - HNRS: Descriptive Astronomy (4 Credits)
Must be taken in sequence.

SCHC 125 - HNRS: Special Topics in History (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 126 - HNRS: Special Topics in History (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 158 - HNRS: Rhetoric (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem. May substitute for SPCH 140.

SCHC 166 - HNRS: Art History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 167 - HNRS: Music History (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 201 - HNRS: Proseminar in Biology (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 202 - HNRS: Proseminar in Biology (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 203 - HNRS: Proseminar in Chemistry (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 204 - HNRS: Proseminar in Chemistry (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 205 - HNRS: Proseminar in Geology (3-4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 206 - HNRS: Proseminar in Geology (3-4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 207 - HNRS: Proseminar in Marine Science (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 208 - HNRS: Proseminar in Marine Science (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 209 - HNRS: Proseminar in Physics (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 209L - HNRS: Proseminar in Physics Lab (1 Credit)

SCHC 210 - HNRS: Proseminar in Physics (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 212 - HNRS: Proseminar: Mathematics (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 213 - HNRS: Proseminar: Mathematics (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 214 - HNRS: Proseminar: Mathematics (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 215 - HNRS: Proseminar in American History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 216 - HNRS: Proseminar in American History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 219 - HNRS: Proseminar in European History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 220 - HNRS: Proseminar in European History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 221 - HNRS: Proseminar in European History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 222 - HNRS: Proseminar in American History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 223 - HNRS: Proseminar in American History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 224 - HNRS: Proseminar in American History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 225 - HNRS: Proseminar in History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 228 - HNRS: Proseminar in History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 230 - HNRS: Proseminar in Psychology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 231 - HNRS: Proseminar in Sociology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 232 - HNRS: Proseminar in Anthropology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 233 - HNRS: Proseminar in Political Science (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 234 - HNRS: Proseminar in International Relations (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 235 - HNRS: Proseminar in Economics (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 237 - HNRS: Proseminar in Geography (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.
SCHC 252 - HNRS: Studies in Writing (3 Credits)
Theory and practice of rhetoric and study of selected writings. Minimum of three papers and a term paper. The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 253 - HNRS: Comparative Studies in Literature (3 Credits)
Broad historical or generic topics in literature. Minimum of three papers and a term paper. The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 254 - HNRS: Studies in American Literature (3 Credits)
Broad historical or generic topics in American literature. Minimum of three papers and a term paper. Students may not receive credit for both SCHC 254 and English 287. The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 255 - HNRS: Studies in British Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 258 - HNRS: Proseminar in Theatre and Speech (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 259 - HNRS: Proseminar: Philosophy (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 260 - HNRS: Proseminar in Philosophy (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 261 - HNRS: Proseminar in Religious Studies (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 262 - HNRS: Proseminar in Religious Studies (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 263 - HNRS: Proseminar in French (3 Credits)
Satisfies Track II requirement. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 264 - HNRS: Proseminar in Spanish (3 Credits)
Satisfies Track II requirement. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 265 - HNRS: Proseminar in German (3 Credits)
Satisfies Track II requirement. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 266 - HNRS: Proseminar in Art (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 267 - HNRS: Proseminar in Music History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 268 - HNRS: Proseminar in Music History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 270 - HNRS: Proseminar in Engineering and Information Technology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 271 - HNRS: Proseminar in Engineering and Information Technology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 272 - HNRS: Proseminar in Journalism (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 273 - HNRS: Proseminar in Journalism (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 274 - HNRS: Proseminar in Business Administration (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 275 - HNRS: Proseminar in Business Administration (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 276 - HNRS: Proseminar in Public Health (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 277 - HNRS: Proseminar in Education (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 278 - HNRS: Proseminar in Pharmacy (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 279 - HNRS: Proseminar in Nursing (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 280 - HNRS: Interdisciplinary Proseminar in the Liberal Arts (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 281 - HNRS: Interdisciplinary Proseminar in the Liberal Arts (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 284 - HNRS: Interdisciplinary Proseminar in Science and Mathematics (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 285 - HNRS: Proseminar in Natural History of South Carolina (4 Credits)

SCHC 301 - HNRS: Proseminar in Biology (3 Credits)

SCHC 301L - HNRS: Biology Lab (1 Credit)

SCHC 302 - HNRS: Proseminar in Biology (3 Credits)

SCHC 302L - HNRS: Biology Lab (1 Credit)

SCHC 303 - HNRS: Proseminar in Chemistry (4 Credits)

SCHC 304 - HNRS: Proseminar in Chemistry (4 Credits)

SCHC 305 - HNRS: Proseminar in Geology (4 Credits)

SCHC 306 - HNRS: Proseminar in Geology (4 Credits)

SCHC 307 - HNRS: Proseminar in Marine Science (4 Credits)

SCHC 308 - HNRS: Proseminar in Marine Science (4 Credits)

SCHC 309 - HNRS: Proseminar in Physics (4 Credits)

SCHC 310 - HNRS: Proseminar in Physics (4 Credits)

SCHC 311 - HNRS: Proseminar in Mathematics (3 Credits)

SCHC 312 - HNRS: Proseminar in Statistics (3 Credits)

SCHC 315 - HNRS: Proseminar in International Studies (3 Credits)

SCHC 321 - HNRS: Proseminar in American History (3 Credits)

SCHC 322 - HNRS: Proseminar in American History (3 Credits)

SCHC 323 - HNRS: Proseminar in European History (3 Credits)

SCHC 324 - HNRS: Proseminar in European History (3 Credits)

SCHC 325 - HNRS: Proseminar in History (3 Credits)

SCHC 326 - HNRS: Proseminar in History (3 Credits)

SCHC 327 - HNRS: Proseminar in History (3 Credits)

SCHC 328 - HNRS: Proseminar in History (3 Credits)

SCHC 330 - HNRS: Proseminar in Psychology (3 Credits)

SCHC 331 - HNRS: Proseminar in Sociology (3 Credits)

SCHC 332 - HNRS: Proseminar in Anthropology (3 Credits)

SCHC 333 - HNRS: Proseminar in Political Science (3 Credits)

SCHC 334 - HNRS: Proseminar in International Studies (3 Credits)
SCHC 335 - HNRS: Proseminar in Economics (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 337 - HNRS: Proseminar in Geography (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 350 - HNRS: Proseminar in American Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 351 - HNRS: Proseminar in British Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 352 - Proseminar in British Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 353 - HNRS: Proseminar in Comparative Literature (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 354 - HNRS: Proseminar in Creative Writing (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 355 - HNRS: Proseminar in Poetry (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 356 - HNRS: Proseminar in the Novel (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 357 - HNRS: Proseminar in the Drama (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 358 - HNRS: Proseminar in Theatre and Speech (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 359 - HNRS: Proseminar in Philosophy (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 360 - HNRS: Proseminar in Philosophy (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 361 - HNRS: Proseminar: Religious Studies (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 362 - HNRS: Proseminar in Religious Studies (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 363 - HNRS: Proseminar in French (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 364 - HNRS: Proseminar in Spanish (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 365 - HNRS: Proseminar: German (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 366 - HNRS: Proseminar in Art (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 367 - HNRS: Proseminar in Music History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 368 - HNRS: Proseminar in Theatre History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 370 - HNRS: Proseminar in Engineering and Information Technology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 371 - HNRS: Proseminar in Engineering and Information Technology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 372 - HNRS: Proseminar in Journalism (3 Credits)

SCHC 374 - HNRS: Proseminar in Business Administration (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 375 - HNRS: Proseminar in Business Administration (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 376 - HNRS: Proseminar: Hlth & PE (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.
SCHC 377 - HNRS: Proseminar in Education (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 378 - HNRS: Proseminar in Pharmacy (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 379 - HNRS: Proseminar: Nursing (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 380 - HNRS: Interdisciplinary Proseminars (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 381 - HNRS: Interdisciplinary Proseminars (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 382 - HNRS: Interdisciplinary Proseminars (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 383 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 384 - HNRS: Interdisciplinary Proseminars (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 385 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 386 - HNRS: Interdisciplinary Proseminars (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 387 - HNRS: Interdisciplinary Proseminars (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 388 - HNRS: Interdisciplinary Proseminars (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 389 - HNRS: Interdisciplinary Proseminars (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 390 - HNRS: Proseminar (1-3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 391 - HNRS: Proseminar (1-3 Credits)
South Carolina Honors College courses offered for variable credit. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 392 - HNRS: Proseminar (1-3 Credits)
South Carolina Honors College courses offered for variable credit. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 393 - HNRS: Proseminar (1-3 Credits)
South Carolina Honors College courses offered for variable credit. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 394 - HNRS: Proseminar (1-3 Credits)
South Carolina Honors College courses offered for variable credit. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 395 - HNRS: Proseminar (1-3 Credits)
South Carolina Honors College courses offered for variable credit. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 396 - HNRS: Proseminar (1-3 Credits)
South Carolina Honors College courses offered for variable credit. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 397 - HNRS: Proseminar (1-3 Credits)
South Carolina Honors College courses offered for variable credit. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 398 - HNRS: Proseminar (1-3 Credits)
South Carolina Honors College courses offered for variable credit. The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 399 - HNRS: Independent Study (3-15 Credits)
Required of all baccalaureate students. Contract approval by instructor, department advisor, and dean or associate dean is required. Graduation with Leadership Distinction: GLD: Research
SCHC 401 - HNRS: Proseminar in Biology (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 401L - HNRS: Biology Lab (1 Credit)
Corequisite: SCHC 401.

SCHC 402 - HNRS: Proseminar in Biology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 402L - HNRS: Biology Lab (1 Credit)
Corequisite: SCHC 402.

SCHC 403 - HNRS: Proseminar in Chemistry (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 404 - HNRS: Proseminar in Chemistry (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 405 - HNRS: Proseminar in Geology (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 406 - HNRS: Proseminar in Geology (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 407 - HNRS: Proseminar in Marine Science (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 408 - HNRS: Proseminar in Marine Science (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 409 - HNRS: Proseminar in Physics (4 Credits)
Open to students with sophomore standing. The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 410 - HNRS: Proseminar in Physics (4 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum. Open to students with sophomore standing.

SCHC 411 - HNRS: Proseminar in Mathematics (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 412 - HNRS: Proseminar in Mathematics (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 413 - HNRS: Proseminar in Chinese (3 Credits)
Specific topics to be selected as need and interests dictate. The course is an extensive study of a broad area or an intensive examination of a specific problem. Special permission by department.

SCHC 414 - HNRS: Proseminar in Italian (3 Credits)
Specific topics to be selected as need and interests dictate. The course is an extensive study of a broad area or an intensive examination of a specific problem. Special permission by department.

SCHC 415 - HNRS: Proseminar in Japanese (3 Credits)
Specific topics to be selected as need and interests dictate. The course is an extensive study of a broad area or an intensive examination of a specific problem. Special permission by department. Restricted to Honors College students.

SCHC 421 - HNRS: Proseminar in American History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 422 - HNRS: Proseminar in American History (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 423 - HNRS: Proseminar in European History (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 424 - HNRS: Proseminar in European History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 425 - HNRS: Proseminar in History (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 426 - HNRS: Proseminar in History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 427 - HNRS: Proseminar in History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 428 - HNRS: Proseminar in History (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 430 - HNRS: Proseminar in Psychology (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 431 - HNRS: Proseminar in Sociology (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 432 - HNRS: Proseminar in Anthropology (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 433 - HNRS: Proseminar in Political Science (3 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.
SCHC 434 - HNRS: Proseminar in International Relations (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 435 - HNRS: Proseminar in Economics (3 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.

SCHC 437 - HNRS: Proseminar: Geography (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 450 - HNRS: Proseminar in American Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 451 - HNRS: Proseminar in Pre-1660 British Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 452 - HNRS: Proseminar in Post-1660 British Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 453 - HNRS: Proseminar: Comparative Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 454 - HNRS: Proseminar in Writing (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 455 - HNRS: Proseminar in English Language and Linguistics (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 456 - HNRS: Proseminar: Criticism (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 457 - HNRS: Proseminar in Literature (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 458 - HNRS: Proseminar in Theatre and Speech (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 459 - HNRS: Proseminar in Philosophy (3 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.

SCHC 460 - HNRS: Proseminar in Philosophy (3 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.

SCHC 462 - HNRS: Proseminar in Religious Studies (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 463 - HNRS: Proseminar in French (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 464 - HNRS: Proseminar in Spanish (3 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.

SCHC 465 - HNRS: Proseminar in German (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 466 - HNRS: Proseminar in Art (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 467 - HNRS: Proseminar in Music History (3 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.

SCHC 468 - HNRS: Proseminar in Theatre History (3 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.

SCHC 470 - HNRS: Proseminar in Engineering and Information Technology (3-6 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.

SCHC 471 - HNRS: Proseminar in Engineering (3 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.

SCHC 472 - HNRS: Proseminar in Journalism (3 Credits)
The following course is a proseminar, with specific topics to be selected
as need and interests dictate. Generally limited to 18 students, it is either
an extensive study of a broad area or an intensive examination of a
specific problem.

SCHC 474 - HNRS: Proseminar in Business Administration (3 Credits)
The following courses are offered infrequently and should not be
considered a regular part of the SCHC curriculum.
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 479 - HNRS: Proseminar in Nursing (3 Credits)
The following courses are offered infrequently and should not be considered a regular part of the SCHC curriculum.

SCHC 480 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 481 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 482 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 483 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 484 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 485 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 486 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 487 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 488 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 489 - HNRS: Interdisciplinary Proseminar (3-4 Credits)
Note: The following course is a proseminar, with specific topics to be selected as need and interests dictate. Generally limited to 18 students, it is either an extensive study of a broad area or an intensive examination of a specific problem.

SCHC 497 - HNRS: Undergraduate Research (3-15 Credits)
Student research supervised by a faculty member. Emphasis is on the development of critical thinking, appropriate research skills, and writing.

Graduation with Leadership Distinction: GLD: Research

SCHC 498 - HNRS: Honors Internship (3-15 Credits)
Prerequisite: Sophomore standing or above; Honors College; approval of honors dean required.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

Experiential Learning: Experiential Learning Opportunity

SCHC 499 - HNRS: Senior Thesis/Project (1-15 Credits)
Required of all students graduating with honors from South Carolina Honors College.

Graduation with Leadership Distinction: GLD: Research

School Leadership (EDLP)

EDLP 517 - Law and Policy Studies in Education (3 Credits)
Policy issues affecting public and private educational institutions across the PK-20 continuum (pre-school through higher education).

EDLP 520 - The Teacher as Manager (3 Credits)
To help teachers, principals, and other personnel solve school problems by identifying and applying selected management techniques.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

Experiential Learning: Experiential Learning Opportunity

EDLP 525 - Resources for Teaching and Learning (3 Credits)
An introduction to educational technology, its increasing importance in the total school program, and its relationship to learning theories and communication.

EDLP 601 - The Effective Teacher (3 Credits)
Use of theory and research to understand and improve classroom teaching. Emphasis on teacher reflection and decision-making. The administrative role in enhancing effectiveness is highlighted.

EDLP 690 - Independent Study (1-3 Credits)

Sci, Tech, Engr, & Math (STEM)

STEM 101 - Concepts and Connections: An Introduction to Science, Technology, Engineering and Mathematics (3 Credits)
This course introduces concepts, connections, and evolving relationships among the sciences engineering and mathematics to strengthen understanding of current ideas and applications of advancing technologies.
Science and Math Educ (SMED)

SMED 510 - Life Science for Teachers I (3 Credits)
Topics appropriate for elementary and middle-school curricula; phylogenetic organization of major kingdoms, characteristics of plants and animals, including humans; ecological principles; communities; energy needs, resources, flow and balance; heredity and adaptation.

SMED 586 - Energy, Motion, and Matter (3 Credits)
Integrated study of the earth's atmosphere for pre-service and in-service middle school teachers combining concepts from earth, life, and physical science leading to an understanding of the interaction of all systems.
Prerequisites: introductory-level courses in life, earth, and physical sciences.

SMED 587 - Interdependence of Living Systems (3 Credits)
Integrated study of the biotic and abiotic environments combining life, earth, and physical science concepts to understand relationships in living systems. For pre-service and in-service middle school teachers.
Prerequisites: introductory-level courses in life, earth, and physical sciences.

SMED 588 - Origin and Evolution of Living and Non-Living Systems (3 Credits)
Study of the earth system for pre-service and in-service middle school teachers, with emphasis on the origin, evolution, and interactions of the subsystems of the earth system.
Prerequisites: introductory-level courses in life, earth, and physical sciences.

SMED 591 - Data Analysis for Teachers (3 Credits)
Introduction to statistics for elementary, middle, and high school teachers. The fundamentals of data collection, descriptive statistics, probability, and inference with special focus on methods of teaching statistical reasoning. For M.A.T. (excluding mathematics) / M.Ed. / M.T. and nondegree credit only. For M.A.T. (excluding mathematics) / M.Ed. / M.T. and nondegree credit only.
Cross-listed course: STAT 591

Secondary Education (EDSE)

EDSE 110 - Introduction to Careers in Education (3 Credits)
An individualized survey of careers in education, utilizing practica, seminars, and input from various disciplines to focus on personal and professional development. Pass-fail credit.

EDSE 111 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 210 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 211 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 310 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 311 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 312 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 399 - Independent Study (3-15 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

EDSE 410 - Practicum in Education (1 Credit)
A sequence of supervised practica in various educational settings. Seminars and group discussions included.

EDSE 446 - Secondary School Curriculum (3 Credits)
The organization, historical context, foundations for curriculum development, process of curriculum planning, design of the curriculum, and strategy of curriculum change in the secondary school. A laboratory experience in teaching media is included. Open only to juniors and seniors or graduates completing certification requirements.

EDSE 472 - Directed Teaching in High School (Business Education) (12 Credits)
ACAF 2.03: 07/05/2019.

EDSE 473 - Directed Teaching in High School (English) (12 Credits)

EDSE 475 - Directed Teaching in High School (History and Social Studies) (12 Credits)

EDSE 480 - Directed Teaching in High School (Distributive Education) (12 Credits)

EDSE 481 - Directed Teaching in High School (Science) (12 Credits)

EDSE 482 - Directed Teaching in High School (Health) (12 Credits)

EDSE 483 - Directed Teaching in High School (Theatre and Speech) (12 Credits)

EDSE 484 - Secondary Student Teaching Seminar (3 Credits)
Classroom management, discipline, legal responsibilities, multicultural perspectives, and needs of exceptional children.

EDSE 500 - Equity and Community Engagement (3 Credits)
Field-based inquiry into theories of critical multicultural education, culturally relevant and equity pedagogies with an emphasis on middle/high school students and engaging parents and the larger school community.

EDSE 502 - Teachers and Teaching (3 Credits)
Teaching as reflective and ethical practice. Professional standards, teacher leadership and school change, and various roles of professional educators.

EDSE 505 - Source Materials for Geographic Instruction (3 Credits)
Introduction to selected materials available for all levels of instruction in geography. Emphasis on the substantive nature of the materials.
Cross-listed course: GEOG 560

EDSE 508 - Teaching Middle and High School (Business Education) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school business education.

EDSE 528 - Study of the Teaching of Business Education in the Secondary School (3 Credits)
Teaching techniques and methodology related to the business education curriculum, emerging technology and software.
EDSE 547 - Teaching Middle and High School (English) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school English.
Prerequisites: Admission to MAT program for graduate students; EDSE 402 for undergraduate students.

EDSE 548 - Earth Science for Teachers I (3 Credits)
Origin, internal structure and internal processes of the earth, including plate tectonics, earthquakes, volcanoes, and mountain building. Required field trips, two lectures, and three lab hours per week. Cannot be used in MS or PhD programs in geology.
Cross-listed course: GEOL 540

EDSE 549 - Earth Science for Teachers II (3 Credits)
Surface processes acting on the earth; introduction to weather and climate, weathering, erosion, and sedimentary processes; land form evolution; ocean currents and tides, near-shore geologic processes. Required field trips, two lecture, and three lab hours per week. Cannot be used in MS or PhD programs in geology.
Prerequisites: EDSE 548/GEOL 540.
Cross-listed course: GEOL 541

EDSE 550 - Teaching Middle and High School (Mathematics) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school mathematics.

EDSE 551 - Teaching Middle and High School (Health) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school health.

EDSE 552 - Teaching Middle and High School (Marketing Education) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school marketing education.

EDSE 553 - Teaching Middle and High School (Science) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school science.

EDSE 554 - Teaching Middle and High School (Theatre and Speech) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school theatre and speech.

EDSE 558 - Teaching Middle and High School (History and Social Studies) (3 Credits)
A study of methods, techniques, and materials of instruction in middle and high school history and social studies.

EDSE 575 - Teaching Foreign Languages in Secondary Schools (3 Credits)
Current methods, techniques, and materials of instruction appropriate for secondary schools.
Cross-listed course: FORL 511

EDSE 580 - Teaching Advanced Latin in Secondary School (3 Credits)
Methods and materials for teaching the Latin Advanced Placement courses in secondary school.
Corequisite: LATN 580.

EDSE 584 - Middle and High School Internship Seminar (3 Credits)
Classroom management, service learning, legal/professional responsibilities, multicultural perspectives and needs of exceptional children.
Corequisite: Internship II.

EDSE 585 - Secondary Internship Seminar I (1 Credit)
Integration of content, pedagogy, and disposition knowledge learned during coursework with Internship I field experiences.
Corequisite: Students must be enrolled in the Internship I field experiences.

EDSE 586 - Secondary Internship Seminar II (2 Credits)
Integration of content, pedagogy, and disposition knowledge learned during coursework with Internship II field experiences.
Corequisite: Students must be enrolled in the Internship II field experiences.

EDSE 660 - Teaching Mathematics with Manipulatives, Grades 7-12 (3 Credits)
Methods and materials for using manipulative devices to teach middle and high school level mathematics.

EDSE 670 - Graphics Calculators in High School Mathematics (3 Credits)
Methods and materials for using graphics calculators to teach algebra, elementary functions, and analytic geometry.

EDSE 690 - Independent Study (1-3 Credits)

Social Work (SOWK)

SOWK 201 - Introduction to Social Work Profession and Social Welfare (3 Credits)
Introduces the social work profession and its mission, purposes, principles, and values. Components of generalist practice with individuals, families, groups, communities and organizations are reviewed.
Graduation with Leadership Distinction: GLD: Community Service

SOWK 222 - Social Welfare Institutions, Policies, and Programs (3 Credits)
Explores the historical and current context of local and national social welfare policies and programs and their relationship to the social work profession. The historical and current context of local and national social welfare policies and programs and their relationship to the social work profession.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service

SOWK 303 - Social Welfare Services for Children and Youth (3 Credits)
Social welfare services available to children and youth and the referral processes involved.
Prerequisites: PSYC 101, or SOCY 101, or SOWK 201.
SOWK 304 - Social Welfare Services to Older Adults and Their Families (3 Credits)
Social welfare services available to families, ranging from counseling services to specialized services for aged citizens.
Prerequisites: PSYC 101 or SOCY 101 or SOWK 201.

SOWK 305 - Social Welfare Services for Women and Minorities (3 Credits)
Social welfare services available to women and minorities and the forces that shape these services.
Prerequisites: C or better in PSYC 101, or SOCY 101, or SOWK 201.

Cross-listed course: WGST 306
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOWK 307 - International Social Work and Social Justice (3 Credits)
This course provides a framework for understanding social work and social justice issues with an emphasis on vulnerable populations in the areas of survival, protection, and promotion of human rights in China, India, the Middle East, Africa, and Central and South America.
Prerequisites: PSYC 101, or SOCY 101, or SOWK 201.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning

SOWK 309 - Life Transitions: Loss and Grief (3 Credits)
This course will examine the grief and loss process that is part of everyday life. This course surveys the knowledge and skills of human service practice with people as they cope with life transitions.
Prerequisites: PSYC 101, or SOCY 101, or SOWK 201.

SOWK 311 - Generalist Practice I: Introduction to Social Work Practice (3 Credits)
An educationally focused community service experience and seminar that emphasizes socialization into the profession of social work.
Graduation with Leadership Distinction: GLD: Community Service

SOWK 312 - Generalist Practice II: Social Work with Individuals and Families (3 Credits)
Provides knowledge and skills necessary for generalist social work practice with individuals and families using person and environment, strengths, and resiliency perspectives with diverse populations.
Prerequisites: SOWK 311.
Prerequisite or Corequisite: SOWK 342.

SOWK 322 - Social Policy Analysis (3 Credits)
Knowledge, values, and skills for social work practitioners to analyze the political and ideological factors and outcomes of policy development, implementation, evaluation, and advocacy.
Prerequisites: SOWK 201, SOWK 222.

SOWK 331 - Diversity and Social Justice in Contemporary Society (3 Credits)
Builds cultural competency through awareness, understanding, and skill necessary for proactive functioning in our diverse society with populations considered vulnerable and oppressed.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOWK 341 - Human Behavior and Social Environment I (HBSE): Individual Development Across the Life Span (3 Credits)
To enhance students' understanding of theories of individual development across the lifespan through various perspectives and within different cultural and sociological contexts. This includes knowledge of biological, psycho-social, and spiritual development.
Prerequisites: SOWK 201.

SOWK 352 - Social Work and Scientific Inquiry (3 Credits)
Foundational knowledge and skills for scientific inquiry and the use of quantitative and qualitative research to inform evidence-based practice.
Prerequisites: SOWK 201, SOWK 222 and select one course from the following: STAT 201 or higher, PSYC 227 or SOCY 220.

SOWK 360 - Refuge and Refugees (3 Credits)
This course provides students with foundational knowledge about forced migration and the institutions of humanitarian aid that address forced migration. Students will learn about global theories of forced migration, humanitarian aid policy, empirical studies of humanitarian aid, refugee resettlement, and displacement, and evaluate biographies and literature on forced migration.

SOWK 368 - Special Topics in Social Work (3 Credits)
An in-depth study of selected issues and social concerns related to being a generalist social worker. Content varies by title.

SOWK 382 - Introduction to Field Education (3 Credits)
An initial supervised field education experience in a human service agency under the supervision of a field instructor.
Prerequisites: SOWK 311.

Graduation with Leadership Distinction: GLD: Community Service
Experiential Learning: Experiential Learning Opportunity

SOWK 399 - Independent Study (3 Credits)
Requires permission of the department.
Graduation with Leadership Distinction: GLD: Research

SOWK 404 - Current Issues in Social Welfare (3 Credits)
A project-type study of selected issues, social concerns, and applications of behavioral implications for practice. May be repeated for credit when the topics covered or subject matter is different.

SOWK 411 - Generalist Practice III: Social Work with Small Groups (3 Credits)
Knowledge, values, and skills essential for generalist social work practice with treatment and task groups across systems of all sizes. An emphasis is given to group practice interventions with diverse, vulnerable, and at-risk populations.
Prerequisites: C or better in SOWK 312.

SOWK 412 - Generalist Practice IV: Organizations and Communities (3 Credits)
Foundational knowledge, values, and skills essential for generalist practice with larger systems, organizations, and communities.
Prerequisite or Corequisite: SOWK 441.

SOWK 422 - Advocacy for Social and Economic Justice (3 Credits)
Knowledge and skills embedded in values of social and economic justice for all people across systems of all sizes that are essential in generalist practice.
Prerequisites: SOWK 322.

Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
SOWK 441 - Human Behavior and the Social Environment (HBSE) III: Large Systems (3 Credits)
Examining how individuals and families are affected by, and affect, larger social systems.

SOWK 481 - Practicum I: Field Education (3 Credits)
Application of skills and theories taught in the classroom in a controlled and planned setting.
Corequisite: SOWK 483.
Prerequisite or Corequisite: SOWK 322.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

SOWK 482 - Practicum II: Field Education (3 Credits)
Further application of the generalist social work skills and theories taught in the classroom in a controlled and planned setting.
Prerequisite or Corequisite: SOWK 412, SOWK 422, SOWK 484.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

SOWK 483 - Practicum Seminar (3 Credits)
Taken with the field practicum, this seminar facilitates student’s integration of generalist practice knowledge with practice in a field agency.
Prerequisites: SOWK 382.
Corequisite: SOWK 481.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships

SOWK 484 - Capstone (3 Credits)
Competent generalist social work practice demands integration of a wide range of theories, knowledge, skills, and values. This course is designed to draw on all previous courses and to engage students in integrating and applying all that they have learned.
Corequisite: SOWK 482.

SOWK 668 - Special Topics in Social Work (1-3 Credits)
Study of special populations, settings, and/or problems encountered by social workers and other human service professionals, and interventions and skills for dealing with them. May be repeated as content varies by title.

SOWK 678 - Transforming Health Care for the Future (1 Credit)
Foundation for beginning health professions students to gain an understanding of the complexities of the health care system through experiential activities conducted in interprofessional teams and the importance of interprofessional collaboration in order to improve the system.
Cross-listed course: PUBH 678

SOWK 679 - Addressing Childhood Obesity through Community Approaches (2 Credits)
Approaches for prevention of childhood obesity, using perspectives from public health, social work, exercise science, pharmacy, medicine, and behavioral nutrition. Training to teach diet/physical activity lessons in elementary school settings.
Cross-listed course: HPEB 679

Sociology (SOCY)

SOCY 101 - Introductory Sociology (3 Credits)
An introduction to sociological facts and principles: an analysis of group-making processes and products.
Carolina Core: GSS

SOCY 220 - Elementary Statistics for Sociologists (3 Credits)
An introduction to concepts and application of quantitative methods, including descriptive and inferential statistics. Emphasis on analysis of empirical sociological data.

SOCY 300 - Social Structures (3 Credits)
Selected theoretical orientations, methodological procedures, and illustrative substantive data pertaining to social structures.

SOCY 301 - Sex and Gender (3 Credits)
Offers a sociological lens to develop critical ways of thinking about sex and gender as social processes in everyday lives. This course considers how sex and gender shape and affect the experiences of women, men, girls, boys, and individuals who live in the spaces in-between (those who are intersex or transgender) across a wide range of social institutions (family, work, education, politics, etc.).
Prerequisites: SOCY 101.
Cross-listed course: WGST 300
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 302 - Sociological Theory (3 Credits)
Examination of key ideas from classical, modern, and contemporary sociological theories.

SOCY 303 - Sociological Research Methods (3 Credits)
Qualitative and quantitative methods of sociological research.

SOCY 304 - Race, Class, Gender, and Sexuality (3 Credits)
Historical and contemporary power relationships in race, social class, gender, and sexual orientation.
Prerequisites: SOCY 101.
Cross-listed course: POLI 305, WGST 304
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 305 - Sociology of Families (3 Credits)
Sociological perspectives related to various aspects of family behaviors, roles, and values.
Prerequisites: SOCY 101.
Cross-listed course: WGST 305
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 307 - Sociology of Religion (3 Credits)
Sociological perspectives related to selected aspects of religious behavior. Includes references to non-Western religions.
Cross-listed course: RELG 338
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy
SOCY 308 - Community Organization (3 Credits)
An analysis of formal and informal organization, the interrelationships among public and private agencies, and means through which community action programs are initiated, coordinated, and maintained.
Graduation with Leadership Distinction: GLD: Community Service, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 309 - An Introduction to Social Inequality (3 Credits)
A sociological analysis of the distribution of wealth and income in selected societies.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 310 - Social Demography (3 Credits)
Introduction to key areas of population studies. Methodological approaches, time trends, regional differences, and contemporary policy issues.
Carolina Core: GSS

SOCY 311 - Ecology of Human Social Systems (3 Credits)
Relationships among and changes in populations, social organization, technology, and the environment.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SOCY 312 - Bureaucracy and Modern Society (3 Credits)
Bureaucracies in the public and private sector, their internal dynamics and relationship to the social environment.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SOCY 313 - Sociology of Aging (3 Credits)
Analysis of aging as a process of socialization and the status of older people in society, their roles in the community, demographic aspects of aging, and the impact of aging upon social institutions.
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 315 - Global Population Issues (3 Credits)
Overview of global population history, theory, statistics, and issues related to recent population trends.
Graduation with Leadership Distinction: GLD: Global Learning

SOCY 320 - Individual and Society (3 Credits)
Selected theoretical orientations, methodological procedures, and illustrative substantive data pertaining to the relations between the individual and society.

SOCY 322 - Sociology of Suicide (3 Credits)
An introductory survey of the social aspects of suicidal behaviors and attitudes.

SOCY 323 - Sociology of Deviant Behavior (3 Credits)
Theories, methodology, and substantive issues in the study of social deviance.

SOCY 325 - Sociology of Childhood (3 Credits)
A consideration of the child in the family group, play group, school group, and community.

SOCY 326 - Sociology of Adolescence (3 Credits)
Sociological perspectives and research findings related to adolescence.

SOCY 330 - Sociology of the Paranormal (3 Credits)
A critical examination of factors that lead to the widespread acceptance of paranormal claims.
Prerequisites: SOCY 101.

SOCY 340 - Introduction to Social Problems (3 Credits)
Contemporary social issues such as poverty, health, the criminal justice system, globalization and the environment, their causes and possible solutions.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy

SOCY 350 - Juvenile Delinquency (3 Credits)
Social factors in the development, identification, and treatment of delinquents.
Prerequisites: SOCY 101.

Cross-listed course: CRJU 351
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 351 - Urban Sociology (3 Credits)
Analysis of urban trends, characteristics, and functions of cities with reference to the social psychological factors in urban living. Attention is directed to the emergence of urbanism in the United States, with particular reference to the Southern region, and to institutions, problems, and city planning.

SOCY 353 - Sociology of Crime (3 Credits)
Social factors in the development, identification, and treatment of criminals.
Prerequisites: SOCY 101.

Cross-listed course: CRJU 341
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 354 - Collective Behavior (3 Credits)
An analysis of crowds, publics, social movements, and the mass society in terms of their institutional and social psychological consequences.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SOCY 355 - Race and Ethnic Relations (3 Credits)
Theoretical and empirical approaches related to race/ethnicity and the current state of race relations in America, with some attention to global issues.
Cross-listed course: AFAM 355
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

SOCY 357 - Sociology of Education (3 Credits)
Analysis of educational institutions, organizations, processes, and their effects in contemporary society.
Cross-listed course: EDFI 357
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 360 - Sociology of Medicine and Health (3 Credits)
Health and illness in relation to social institutions. The organization and professionalization of medicine and social barriers to medical care.

SOCY 368 - Society through Visual Media (3 Credits)
Analysis of social phenomena and sociological questions through various forms of media, including films, TV, photography, and other visual media.
Prerequisites: SOCY 101.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy
SOCY 370 - Sociology of Sport (3 Credits)
Theories, methods, and substantive issues in the study of sport in contemporary societies.

SOCY 398 - Topics in Sociology (3 Credits)
Reading and research on selected sociological topics. Course content varies and will be announced in the schedule of classes by title.

SOCY 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

SOCY 460 - Sociology of Mental Health (3 Credits)
Social factors in the development, identification, and treatment of mental illness.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 500 - Social Networks (3 Credits)
Analysis of personal, social and organizational networks, their structural patterns, practical consequences, and principles of formation and change.

SOCY 502 - Political Sociology (3 Credits)
Theory and research concerning the interrelationship between the polity and social structures.

SOCY 503 - Family and Social Stratification (3 Credits)
An analysis of the contemporary American family emphasizing social stratification, mobility, occupations, and urbanization.

SOCY 504 - Social Stratification (3 Credits)
Theory and research in social stratification.

SOCY 505 - Social Structures in Communities (3 Credits)
Interrelationships of major social structures within communities.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 506 - Social Organizations (3 Credits)
Selected theoretical orientation, methodological procedures, and illustrative substantive issues pertaining to organizations.

SOCY 507 - Sociology of Social Control (3 Credits)
Theories and issues relating to the definition of and response to crime and/or deviance.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 509 - Advanced Social Structures (3 Credits)
The analysis of core methodological and substantive issues in the study of social structures.

SOCY 510 - Life Course Demographics (3 Credits)
People’s demographic lives, structural contexts, and social change. Emphasis on the socioeconomic context in which lives unfold.

Prerequisites: SOCY 310.

SOCY 512 - Internal and International Migration (3 Credits)
A survey of methods of analysis and research findings with emphasis on the social and economic concomitants of internal migration. Cultural, economic, and historical aspects of international migration. Effects of governmental policies on immigration and emigration. Examination of selected countries.

SOCY 514 - Urbanization (3 Credits)
Analysis of urbanization using contemporary and historical data from developing societies. The demographic components of metropolitan growth and the changing structure of metropolitan communities.

SOCY 515 - Scientific Methods and Sociological Inquiry (3 Credits)
Introduction to methods used to answer theoretical, empirical, and practical sociological questions, including scientific inquiry and research design.

SOCY 520 - Advanced Social Psychology (3 Credits)
Advanced survey of social psychological perspectives and research on inequality, discrimination, power and status, cooperation and collective action, social norm and morality, networks and relationships.

SOCY 521 - Small Group Analysis (3 Credits)
A behavioral analysis of small groups.

SOCY 522 - Power and Authority Structures in Groups (3 Credits)
An exploration of theoretical perspectives, methodological approaches, and substantive issues in the study of interpersonal power and authority.

SOCY 523 - Social Processes of Deviance Control (3 Credits)
A systematic analysis of the interrelation among the creation, involvement, recognition, and control of deviance.

SOCY 524 - Interpersonal Behavior in Families (3 Credits)
Social psychological perspectives on family behavior.

SOCY 525 - Selves and Social Transaction (3 Credits)
A systematic analysis of interrelationships among social acts, selves, roles, transactions, and language.

SOCY 540 - Sociology of Law (3 Credits)
Review of theoretical and empirical developments in the sociology of law, including classical and modern sociological theories of law and selected sociological themes of law in various social settings.

SOCY 550 - Sociology of Science (3 Credits)
Interrelationships among society, culture, and contemporary science.

SOCY 557 - Sociology of Education and Inequality (3 Credits)
Advanced inquiry into the relationship between education and inequality.

Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy

SOCY 560 - Advanced Sociological Theory (3 Credits)
Theoretical perspectives on society and social behavior.

SOCY 561 - Integrative Research Experience (3 Credits)
Design and conduct of original research using sociological research methods to meet Carolina Core Integrative course requirement for the BA and the BS.

Prerequisites: SOCY 101, SOCY 220 and SOCY 300-level or higher course.

Experiential Learning: Experiential Learning Opportunity

SOCY 562 - Advanced Sociological Research Methods (3 Credits)
Advanced survey of methods used in sociological research.

SOCY 598 - Selected Topics (3 Credits)
Readings and research on selected sociological topics. Course and content varies and will be announced in the schedule of classes by title.

Prerequisites: SOCY 101.

SOCY 599 - Advanced Independent Study (3-6 Credits)
Advanced Independent study. Contract approved by instructor, advisor, and department chair is required.

Prerequisites: SOCY 101.

SOCY 698 - Special Topics (3 Credits)
Reading and research.

Prerequisites: SOCY 101.
Southern Studies (SOST)

SOST 101 - The Literary South (3 Credits)
Principles, practices, and contexts of major literary works of the American South.
Carolina Core: AIU

SOST 298 - Topics in the American South (3 Credits)
Reading and research on selected interdisciplinary topics in Southern Studies. Course content varies and will be announced in the schedule of classes by title. May be repeated for credit under a different title.

SOST 299 - Topics is South Carolina (3 Credits)
Reading and research on selected interdisciplinary topics about South Carolina. Course content varies and will be announced in the schedule of classes by title. May be repeated for credit under a different title.

SOST 301 - Introduction to Southern Studies 1580-1900 (3 Credits)
Examination of major social and cultural developments of American South from early exploration to 1900.

SOST 302 - Introduction to Southern Studies: The Twentieth Century (3 Credits)
An topical examination of the American South ranging from Reconstruction to the Civil Rights Movement.
Carolina Core: GHS
Graduation with Leadership Distinction: GLD: Research

SOST 305 - The Contemporary South (3 Credits)
An investigation of Southern regional identity.

SOST 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor, and program director is required for undergraduates.
Graduation with Leadership Distinction: GLD: Research

SOST 405 - Topics in Southern Studies (3 Credits)
Reading and research on selected topics in Southern studies. Course content varies and will be announced in the schedule of classes by title.
Graduation with Leadership Distinction: GLD: Research

SOST 500 - Topics in the American South (3 Credits)
Selected topics related to the study of the American South. Course content varies and will be announced in the schedule of classes by title. May be repeated for credit as topics vary.

Spanish (SPAN)

SPAN 109 - Beginning Spanish I (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Restricted to those who have never studied Spanish or placed by examination into SPAN 109. Credit may be received only for one of the following: SPAN 109, SPAN 110, SPAN 111, or SPAN 121.
Carolina Core: GFL

SPAN 110 - Beginning Spanish II (3 Credits)
Introduction to grammar and practical vocabulary necessary for fundamental communication skills. Restricted to those who have completed SPAN 109. Credit may be received only for one of the following: SPAN 109, SPAN 110, SPAN 111, or SPAN 121.
Carolina Core: GFL

SPAN 111 - Intensive Beginning Spanish (6 Credits)
Intensive introduction to grammar and practical vocabulary necessary for fundamental communication skills. Admission only to highly motivated beginning students who obtain the permission of the department. Credit may be received only for one of the following: SPAN 109, SPAN 110, SPAN 111, or SPAN 121.
Carolina Core: GFL

SPAN 121 - Elementary Spanish (3 Credits)
Grammar and vocabulary necessary for fundamental communication skills. Assumes prior experience in Spanish. Admission only by proficiency examination. Credit may be received for only one of the following: SPAN 109, SPAN 110, SPAN 111, or SPAN 121.
Carolina Core: GFL

SPAN 122 - Basic Proficiency in Spanish (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills.
Prerequisites: SPAN 109, SPAN 110, SPAN 111, or SPAN 121 or by placement examination.
Carolina Core: GFL

SPAN 209 - Intermediate Spanish I (3 Credits)
Further development of listening, speaking, reading, and writing skills. Use of authentic cultural materials.
Prerequisites: C or better in SPAN 122 or by Placement Exam.

SPAN 210 - Intermediate Spanish II (3 Credits)
Continued development of the four skills practiced in SPAN 209.
Prerequisites: C or better in SPAN 209 or by Placement Exam.

SPAN 211 - Intensive Intermediate Spanish (6 Credits)
Further development of listening, speaking, reading, and writing skills. Designed for highly motivated students. Credit not awarded for both SPAN 209-SPAN 210 and SPAN 211.
Prerequisites: SPAN 122 or placement at 209 level on Phase II placement exam.

SPAN 220 - Selected Works of Hispanic Literature in English Translation (3 Credits)
Selected major works, especially contemporary works, in all genres of Hispanic literature in English translation.
Carolina Core: AIU

SPAN 301 - Service Learning in Spanish (1-3 Credits)
Contract approved by instructor, director, and department chair required. May be repeated. Maximum of 3 hours may apply towards major or minor.
Prerequisites: SPAN 210.

SPAN 302 - Advanced Spanish (3 Credits)
In-depth study of advanced grammatical structures of Spanish to develop proficiency in all 4 skills and cultural competency. Gateway course for Spanish majors.
Prerequisites: B or better in SPAN 210, SPAN 211 or SPAN 230 or by placement.

SPAN 303 - Cultural Readings and Advanced Composition (3 Credits)
Development of advanced composition skills in Spanish on a variety of topics related to cultural production of the Spanish-speaking world.
Prerequisites: SPAN 302 or by placement on Phase II placement exam.

SPAN 304 - Cultural Readings and Advanced Conversation (3 Credits)
Cultural readings about the Spanish-speaking world, and advanced speaking skills practice through various strategies such as group discussions, debates, presentations.
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<th>Course Code</th>
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| SPAN 305   | - Working with Hispanic Clients                        | (3 Credits) | Crosscultural approaches to interactions with persons of Hispanic origin in a variety of professional settings. Readings, speakers, media. Taught in Spanish. Departmental permission required for transfer students. **Prerequisites:** B or better in SPAN 210 or SPAN 211; placement at 300 level on Phase II placement exam.  
**Cross-listed course:** LASP 305  
**Graduation with Leadership Distinction:** GLD: Community Service, GLD: Global Learning |
| SPAN 311   | - Spanish for Heritage Speakers                        | (3 Credits) | Intensive grammar practice, enhancement of reading and writing skills for individuals raised in a Spanish-speaking household but with little or no formal Spanish instruction. Restricted to heritage speakers, as defined in Bulletin description. **Prerequisites:** Placement by Phase II Exam. |
| SPAN 312   | - Introduction to Reading Hispanic Literary Texts       | (3 Credits) | Approaches to reading literary texts through carefully selected readings from different genres. **Prerequisites:** SPAN 303 or by placement. D or better for non-Spanish majors. C or better for Spanish majors and minors. |
| SPAN 316   | - Business Spanish                                     | (3 Credits) | Commercial organizations and business in Spanish-speaking countries, business correspondence, terminology, and techniques in commercial transactions. Standardized examinations available such as the Certificado de la Cámara de Comercio de Madrid. **Prerequisites:** C or better in SPAN 302 or by placement. |
| SPAN 317   | - Spanish Phonetics and Pronunciation                  | (3 Credits) | Analysis of and practice in pronunciation, listening comprehension, and dialect recognition based on study of the speech sounds, combinations, patterns, and processes of Spanish phonetics and phonology. Department permission required for transfer students. **Prerequisites:** C+ or better in SPAN 302; placement at 300 level of Phase II placement exam.  
**Cross-listed course:** LING 314 |
| SPAN 350   | - Spanish Language Study Abroad                        | (3 Credits) | Intensive language practice in native environment with emphasis on oral skills. Instruction by native speakers; community contact and home stay. Prior placement test required. May be repeated once for credit. **Prerequisites:** B or better in SPAN 210 or SPAN 211 or by placement at 300 level on Phase II placement exam. |
| SPAN 360   | - Spanish for Healthcare Professionals                 | (3 Credits) | Health professionals' functional and lexical language ability, cultural information, etiquette and protocol necessary to interact with Spanish speakers. **Prerequisites:** SPAN 309. |
| SPAN 375   | - Special Topics in Hispanic Literature                | (3 Credits) | Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title. **Prerequisites:** SPAN 303 or placement above the SPAN 303 level on Phase II placement exam.  
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences |
| SPAN 376   | - Special Topics in Hispanic Language and Culture      | (3 Credits) | Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title. **Prerequisites:** C or higher in SPAN 302; Placement Exam score of SD or S7. |
| SPAN 380   | - The Cinema of Spain                                  | (3 Credits) | Investigation of Spanish cultures through the study of its films and the cinematic medium. **Prerequisites:** SPAN 303 or by placement.  
**Graduation with Leadership Distinction:** GLD: Diversity and Social Advocacy, GLD: Global Learning |
| SPAN 381   | - The Cinema of Latin America                           | (3 Credits) | Investigation of Latin American cultures through the study of films and the cinematic medium. **Prerequisites:** Placement at 300 level on Phase II placement exam, grade of C+ or better in SPAN 303, or consent of instructor. Department permission required for transfer students. |
| SPAN 398   | - Special Topics in Hispanic Studies                   | (3 Credits) | Intensive study of selected topics of the Hispanic world. Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title. Taught in English. |
| SPAN 399   | - Independent Study                                    | (3-6 Credits) | Contract approved by instructor, advisor, and department chair is required for undergraduate students. Department permission required for transfer students. **Prerequisites:** B or better in SPAN 210 or SPAN 211; Placement at 300 level on Phase II placement exam. |
| SPAN 400   | - Spanish Civilization                                 | (3 Credits) | Lectures, readings, and visuals on selected topics of Spanish civilization and its cultural heritage. **Prerequisites:** C+ or better in SPAN 303 or placement at 300 level on Phase II placement exam.  
**Graduation with Leadership Distinction:** GLD: Global Learning |
| SPAN 401   | - Latin American Culture                               | (3 Credits) | Lectures, visuals, and readings on selected topics of Spanish American civilization and its cultural heritage. **Prerequisites:** SPAN 312. |
| SPAN 404   | - Literary Tendencies and Masterpieces of Spain        | (3 Credits) | A survey of the masterworks and literary tendencies of Spain. **Prerequisites:** SPAN 312. |
| SPAN 405   | - Literary Tendencies and Masterpieces of Spanish America | (3 Credits) | A survey of the masterworks and literary tendencies of Spanish America. **Prerequisites:** SPAN 312.  
**Cross-listed course:** LASP 371 |
| SPAN 410   | - Advanced Oral Communication for the Professions      | (3 Credits) | Designed to develop linguistic functions such as supporting opinions and hypothesizing, as well as communicative strategies and vocabulary that are essential to effective communication in Spanish in the workplace. **Prerequisites:** SPAN 309, SPAN 310. |
SPAN 417 - Advanced Spanish for Business and the Professions (3 Credits)
Vocabulary, concepts, and oral/written skills necessary to communicate effectively in the social, cultural, or economic infrastructure of Hispanic countries. Introduction to the use of technology for the acquisition and processing of materials relevant to students' professional goals.
Prerequisites: SPAN 316.

SPAN 475 - Advanced Special Topics in Hispanic Literature (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title.
Prerequisites: D or better in SPAN 312 or by placement.

SPAN 476 - Advanced Special Topics in Hispanic Language and Culture (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title. This course will be taught in Spanish.
Prerequisites: D or better in SPAN 303 or by placement.

SPAN 498 - Advanced Special Topics in Hispanic Studies (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title. Taught in English.

SPAN 499 - Senior Seminar (3 Credits)
A special seminar devoted to the in-depth study of selected subjects in Hispanic literature, culture, or language. Required for the intensive major in Spanish.
Prerequisites: 3.00 GPA; 18 hours of 300-level Spanish.

Graduation with Leadership Distinction: GLD: Research

SPAN 500 - Contemporary Spain (3 Credits)
Analysis and discussion of 20th-century Spanish history and the sociocultural forces that have contributed to define this country's national identity. Taught in Spanish.
Prerequisites: SPAN 303 for Undergraduates, Phase II placement exam above SPAN 303.

Graduation with Leadership Distinction: GLD: Global Learning

SPAN 501 - Contemporary Spanish America (3 Credits)
Analysis and discussion of 20th-century Spanish American history and the sociocultural forces that have contributed to define this area's national identities. Taught in Spanish.
Cross-listed course: LASP 501

SPAN 513 - Introduction to Professional and Technical Translation (3 Credits)
Introduction to translation and practice of skills required for professional and technical Spanish/English translation.
Prerequisites: SPAN 409.

SPAN 515 - Introduction to Spanish Linguistics (3 Credits)
Phonology, morphology, and syntax of modern Spanish.
Prerequisites: SPAN 303, Phase II placement exam above SPAN 303.

SPAN 516 - The Structure of Modern Spanish (3 Credits)
Description of the grammatical structures of Modern Spanish. Intensive study of the theory and practice of word formation and sentence structure of Spanish.
Cross-listed course: LING 554

SPAN 517 - Contrastive English-Spanish Phonetics and Phonology (3 Credits)
Introduction to the study of phonetics and phonology and their application to the sounds and sound systems of English and Spanish. Includes transcription practice and discussion of relevance to teaching.
Cross-listed course: LING 514

SPAN 518 - Introduction to Spanish Medieval Literature (3 Credits)
Survey of Spanish literature from its first manifestations to La Celestina. Introduction; early works; the epic; 13th- through 15th-century prose and verse; Berceo, Alfonso X, Juan Ruiz, Marques de Santillana; others.
Prerequisites: SPAN 312 for undergraduates.

SPAN 524 - Renaissance and Golden Age Literature (3 Credits)
Survey of the works of Garcilaso, the Spanish mystics, Lope, Quevedo, Tirso, Calderon, Gongora and others.
Prerequisites: SPAN 312 for undergraduates.

SPAN 534 - Nineteenth-Century Spanish Literature (3 Credits)
Survey of the works of the major literary figures of the period.
Prerequisites: SPAN 312 for undergraduates.

SPAN 538 - Twentieth-Century Spanish Literature (3 Credits)
Survey of major peninsular writers from the Generation of '98 to the present.
Prerequisites: SPAN 312 for Undergraduates.

SPAN 541 - Colonial Spanish-American Literature to Neoclassicism (3 Credits)
Survey of pre-Columbian poetry and of texts dating from the time of Columbus to the end of the Colonial period.
Cross-listed course: LASP 541

SPAN 543 - Spanish-American Literature from the Independence Through Modernism (3 Credits)
Survey of the most significant works of the Independence through Modernism.
Prerequisites: SPAN 312 for Undergraduates.

SPAN 550 - Advanced Language Study Abroad (3 Credits)
Intensive language practice in native environment with special emphasis on oral skills. Instruction by native speakers; extensive community contact and home stay. Prior placement test required.

SPAN 555 - Spanish-American Literature from Modernism Through 1960 (3 Credits)
Survey of the most significant works of this period.
Prerequisites: SPAN 312 for undergraduates.

SPAN 557 - Contemporary Spanish-American Literature (3 Credits)
Survey of the most significant works from 1960 to the present.
Cross-listed course: LASP 471

SPAN 575 - Special Topics in Spanish (3 Credits)
Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title.
Prerequisites: D or better in SPAN 312 or graduate standing.

SPAN 615 - Intensive Readings in Spanish (3 Credits)
Intensive reading for non-majors. Graduate students fulfill their foreign-language requirement with successful completion of the course.
Undergraduates may take the course as an elective only by permission.
Speech (SPCH)

SPCH 140 - Public Communication (3 Credits)
Introduction to theory and practice of oral communication in public, social, and institutional contexts. Includes foundational and cumulative training in the invention, performance, and critical analysis of oral communication, with emphasis on argumentation, persuasion, audience analysis, delivery, and ethical forms of engagement.

Carolina Core: CMS
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 145 - Online Public Communication (3 Credits)
Introduction to theory and practice of live and recorded online spoken communication in public, social, and institutional contexts. Training in invention, performance, and critical analysis of online spoken communication, including audience analysis, persuasion, delivery, and ethical engagement. Includes significant practice in preparing and presenting live online public communication.

Carolina Core: CMS, INF

SPCH 150 - Speaking Anxiety Reduction Laboratory (1 Credit)
Exercises, techniques, and demonstrations aimed toward reducing public speaking anxiety. Not for major credit.
Corequisite: THEA 140 or THEA 230.

SPCH 201 - Popular Communication and Public Culture (3 Credits)
Examination of historical and popular communication conflicts, texts, and events. Offers an introduction to critical concepts and analysis of public speech, rhetoric, and cultural discourse.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 213 - Communicating Moral Issues (3 Credits)
Moral issues confronting men and women in contemporary society and the challenges of communicating effectively about them. Topics will vary but may include access to health care, euthanasia, abortion, same sex marriage and the moral and environmental consequences of eating animals.
Cross-listed course: PHIL 213
Carolina Core: CMS

SPCH 230 - Business and Professional Speaking (3 Credits)
Fundamentals of oral communication within business and professional settings. Includes performance.
Carolina Core: CMS
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 260 - Argumentation and Debate (3 Credits)
Preparing and delivering the debate. Academic debate serves as a model.
Carolina Core: CMS

SPCH 330 - Small Group Communication (3 Credits)
The development of the skills and methods of effective participation in teams, committees, and other small groups.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 331 - Organizational Communication (3 Credits)
Examines communication behavior and networks within organizations through the study of major theories of organizational communication, identifies and defines primary concepts, and applies them to organizational scenarios and case studies.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 340 - Literature and Performance (3 Credits)
Introduction to the study of literature through performance; reading, analysis, and performance of prose, poetry, nonfiction, and drama.
Cross-listed course: THEA 340

SPCH 380 - Persuasive Communication (3 Credits)
Analysis of the process and functions of persuasive communication.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 387 - Introduction to Rhetoric (3 Credits)
Theories of human communication useful for understanding and informing the everyday work of writers. Emphasis on intensive analysis and writing.
Prerequisites: ENGL 101; ENGL 102.
Cross-listed course: ENGL 387
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 399 - Independent Study and Research (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

SPCH 411 - Arguments in Cultural Studies (3 Credits)
The study of texts and discourse from contemporary culture drawing from concepts such as politics, television, music, and other popular culture and entertainment.

SPCH 441 - Rhetorical Criticism (3 Credits)
Interpretation and evaluation of communication texts and events such as speeches, media, and social movements. Employs a variety of critical methods and approaches.

SPCH 448 - Contemporary Political Rhetoric (3 Credits)
Analysis and evaluation of speeches, political campaigns and controversies over political representation and recognition. Focus on case studies that illustrate the role of speech-making in political campaigns. Offered only in fall semesters in which national elections are held.

SPCH 463 - Great Debates (3 Credits)
A study of debates at the Constitutional Convention, Lincoln-Douglas debates (1858), vice presidential and presidential debates, and other national debates.

SPCH 464 - Speechwriting (3 Credits)
An exploration of the process of advanced policy advocacy emphasizing speechwriting strategies, issues management, and systematic advocacy campaigns.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 470 - Rhetoric of Science and Technology (3 Credits)
Rhetorical study of science and technology in contemporary culture, emphasizing the ways scientific texts and technologies make their persuasive appeals.
Prerequisites: ENGL 101, ENGL 102.
Cross-listed course: ENGL 470

SPCH 471 - Rhetoric and the Ancient Roots of Modern Life (3 Credits)
Classical rhetoric and its ongoing influence in the modern world, emphasizing how the study and use of language in ancient Greece and Rome continue to shape modern communication.
Cross-listed course: CLAS 471, ENGL 471
SPCH 472 - Rhetoric and Popular Culture (3 Credits)
Rhetorical study of popular culture, using the methods and theories of cultural analysis to examine how various popular cultural forms work as persuasion.
Prerequisites: ENGL 101; ENGL 102.

Cross-listed course: ENGL 472

SPCH 485 - Women's Rhetoric (3 Credits)
Study of rhetoric by and about women as manifested in speeches, essays, and other rhetorical artifacts.
Prerequisites: ENGL 101 and ENGL 102.

Cross-listed course: ENGL 485, WGST 485

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 486 - African-American Rhetoric (3 Credits)
African-American rhetoric as manifested in speeches, essays, and other rhetorical artifacts.
Cross-listed course: AFAM 486, ENGL 486

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPCH 499 - Special Topics in Speech (3 Credits)
Reading and research on selected topics. Course content varies and will be announced in the schedule of classes by title. May be repeated once as topics vary.
Graduation with Leadership Distinction: GLD: Research

SPCH 543 - Communication, Law, and Society (3 Credits)
Examines the role of communication in legal and judicial contexts. Focus on case studies that illustrate the theoretical and practical significance of rhetoric in the work of the courts, lawyers, and public advocacy groups.

Sport & Entertnmnt Mgmt (SPTE)

SPTE 101 - The Student-Athlete Experience (3 Credits)
Examination of the functions and resources the university provides for students transitioning to college and the problems common to the first-year student-athlete experience.

SPTE 110 - Sport and Entertainment in American Life (3 Credits)
The American sport and entertainment enterprise: background, influences, and trends; collegiate and professional sport organizations; ownership and unionization; media portrayals.

SPTE 195 - Sport and Entertainment Careers (0 Credits)
Introduction of networking, interviewing, and career planning in the sport and entertainment industry.

SPTE 201 - Introduction to Sport Management (3 Credits)
Introduction to sport management industry career fields.

SPTE 202 - Introduction to Live Entertainment Management (3 Credits)
The study of underlying themes in entertainment management and its application to music, family shows, and other live entertainment business venues.

SPTE 203 - Introduction to Event and Venue Management (3 Credits)
An overview of the history, impact, types, and trends of events and venues, the principles of event planning, the role of venues, and career options in each field.

SPTE 240 - Business Law (3 Credits)
Formation of contracts and their operation as they apply to business; promissory notes and checks; agency and employment.

SPTE 274 - Computer Applications in Hospitality, Retail, and Sport Management (3 Credits)
Administrative tasks for computer usage, including software and hardware selection, applications, and solutions.

SPTE 295 - Practicum (6 Credits)
Supervised work experience in a sport or entertainment management area selected by the student with approval of advisor. Contract approved by advisor or department chair is required for undergraduate students.
Prerequisites: SPTE 195, SPTE 201 and SPTE 274.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

Experiential Learning: Experiential Learning Opportunity

SPTE 302 - Artist Representation and Management (3 Credits)
This course focuses on the role of the manager in the entertainment industry and his or her relationships with artists, agents, buyers and industry executives.
Prerequisites: SPTE 202.

SPTE 303 - Live Entertainment Tour Management (3 Credits)
This course puts a fine point on performance tour management logistics, including booking, scheduling, shipping, budgeting, movement of equipment, and artist management challenges, including entertainment production.
Prerequisites: SPTE 202.

SPTE 305 - The Business of NASCAR (3 Credits)
The course is designed to present an overall view of the NASCAR industry through a series of guest speakers, who are subject matter experts in their respective NASCAR-related fields.

SPTE 310 - Collegiate Athletics (3 Credits)
Students are provided with an overview of college athletics. Though the course will cover the NJCAA and NAIA, it will particularly focus upon the NCAA, and more specifically, upon the business of "Big-Time" intercollegiate athletics.

SPTE 315 - NCAA Compliance (3 Credits)
Students will gain a basic understanding of NCAA Division I rules and regulations while learning how the rules are applied to member institution. An overview of the operations of an NCAA Division I compliance office and coaching regulations will be provided as well.

SPTE 320 - Sport and the Law (3 Credits)
Laws and regulatory bodies affecting the management of sport personnel, facilities, and events.
Prerequisites: SPTE 240 or equivalent.

Graduation with Leadership Distinction: GLD: Research

SPTE 325 - Resort and Club Recreation Programming (3 Credits)
Management of club and resort sport complexes.

SPTE 330 - The Summer Olympic Games (3 Credits)
Examination of the Summer Olympic Games and its impact on sport, entertainment, hospitality, tourism and the host community.

SPTE 335 - The Business of Baseball (3 Credits)
Overall view of the sport of baseball from a business perspective.

SPTE 340 - The Sporting Goods Industry (3 Credits)
Principles of manufacturing and retailing applied to the sporting goods industry.
SPTE 342 - Sport and Entertainment Contracts and Negotiations (3 Credits)
The formation and negotiation of contracts in Sport and Entertainment Management.
Prerequisites: SPTE 240 or ACCT 324 or equivalent.

SPTE 376 - Risk Management in Sport and Entertainment (3 Credits)
Theoretical and practical approaches to managing risk in Sport and Entertainment venues and events.
Prerequisites: SPTE 240 or ACCT 324 or equivalent.

SPTE 380 - Sport and Entertainment Marketing (3 Credits)
Marketing theory and practice and how it relates to sport and entertainment.
Prerequisites: MKTG 350.

SPTE 385 - Ethics in Sport and Entertainment Business (3 Credits)
The objective of this course is to familiarize students with the ethical issues that exist in the business of sport and entertainment. Students will learn theories of ethics and how they relate to issues faced by managers in the sport and entertainment industry. Ethical theories and philosophies – deontology, utilitarianism, and virtue - will be driving the discussions and understandings of ethical decision-making in this class.
Carolina Core: VSR
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

SPTE 399 - Independent Study (1-6 Credits)
Students will have an opportunity to explore a specific area of sport and entertainment management. Individual students will identify an area of study related to sport and entertainment management and complete a research paper on this topic under the guidance of the instructor.
Graduation with Leadership Distinction: GLD: Research

SPTE 402 - Entertainment and the Law (3 Credits)
Performing arts and entertainment industries' social, economic, and legal issues, in addition to the development and role of entertainment in society, will be analyzed—from its roots to the present.
Prerequisites: SPTE 240.

SPTE 404 - Promoting Entertainment Events (3 Credits)
This course should provide students with an understanding of various methods of promotion and approaches to the application of advertising and publicity in the broad spectrum of modern media.
Prerequisites: SPTE 240.

SPTE 410 - Sport and Entertainment in Popular Culture (3 Credits)
Investigation of sport and entertainment as critical facets of American society.

SPTE 415 - Sport in Film (3 Credits)
This class invites students to consider a variety of classic and contemporary, international and domestic sports films featuring heroes and villains from baseball, basketball, boxing, football, soccer and other sports stages. Students will develop a rhetorical analysis of socially significant sport films after exposure to numerous critical perspectives.

SPTE 430 - Sport and Entertainment Services Marketing (3 Credits)
Basic principles required to promote a service marketing strategy in sport and entertainment.
Prerequisites: MKTG 350.

SPTE 435 - Spectator Facilities Management (3 Credits)
Programming, marketing, public relations, fiscal considerations, operation, labor relations, personnel, and event management for spectator sports and entertainment events.

SPTE 440 - Sport and Entertainment Business and Finance (3 Credits)
Economic and finance theories applied to the management of sport and entertainment organizations.
Prerequisites: FINA 363 or FINA 333.

SPTE 444 - Sports and Entertainment Event Management (3 Credits)
Application of management principles to sports and entertainment events.
Prerequisites: SPTE 380, SPTE 440.

SPTE 450 - Sales in Sport and Entertainment Business (3 Credits)
Students will be provided with an overview of the sales process and learn how the sales process applies to sport and entertainment while using hands on exercises to perpetuate the understanding of the importance of sales.
Prerequisites: MKTG 350.

SPTE 490 - Special Topics in Sport and Entertainment Management (3 Credits)
Current topics and trends in sport, live entertainment, and venue management. Content varies by title. May be repeated once.

SPTE 495 - Internship in Sport and Entertainment Management (6 Credits)
Placement with a sport or entertainment organization for a supervised learning experience in the student's career specialization area.
Prerequisites: SPTE 440 and 444; 114 credit hours.

SPTE 499 - Senior Thesis (3 Credits)
A senior thesis related to one of the advanced courses in the major program.
Prerequisites: minimum GPA of 3.50 in major courses, 3.30 overall.

SPTE 501 - Trends and Issues in Sport and Entertainment Management (3 Credits)
Trends and Issues in Sport and Entertainment Management.

SPTE 545 - Managing Part-Time Employees and Volunteers (3 Credits)
Recruiting, hiring, training, and retaining part-time employees and volunteers in sport and entertainment.

SPTE 550 - The Business of Esports (3 Credits)
This course is designed to provide students with an overview of the business of esports. It will focus on the history of video games from creation to the present and will also cover the various business elements of the modern, competitive esports environment.

SPTE 560 - Performing Arts Management and Leadership (3 Credits)
The study of performing arts management as it relates to nonprofits and organizational structure.
Prerequisites: C or better in SPTE 202 and SPTE 380.
Carolina Core: collection, management, and evaluation of information; and presentation of simple confidence intervals and hypothesis tests; statistical software; Experimental and survey design; descriptive statistics; basic probability; appropriate software. Credit given only for STAT 110 or STAT 112.

A course in statistical literacy. Topics include data sources and marketing for the live entertainment and sport industries. In-depth investigation of social networks, digital platforms, and online strategies in sport and entertainment.

Use of integrated marketing communication concepts, theories, and strategies in sport and entertainment. Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Investigation of special topics pertinent to the sport and entertainment management industry. Content varies by title. May be repeated twice.

Business concepts needed to develop sport and entertainment special events.

Managing public assembly facilities and venues. Prerequisites: SPTE 203 or equivalent.

Use of integrated marketing communication concepts, theories, and strategies in sport and entertainment. Prerequisites: MKTG 350.

In-depth investigation of social networks, digital platforms, and online marketing for the live entertainment and sport industries.

Statistics (STAT)

Introduction to statistical reasoning. Topics include data sources and sampling, concepts of experimental design, graphical and numerical data description, measuring association for continuous and categorical variables, introduction to probability and statistical inference, and use of appropriate software. Credit given only for STAT 110 or STAT 112.

Carolina Core: ARP

Statistics and the Media. (3) Statistical and information literacy. Experimental and survey design; descriptive statistics; basic probability; simple confidence intervals and hypothesis tests; statistical software; collection, management, and evaluation of information; and presentation of statistics in the media. Credit given for only STAT 110 or STAT 112.

Carolina Core: ARP, INF

Carolina Core: ARP

Introduction to fundamental statistical methods with applications in the biological and life sciences. Includes descriptive statistics; probability; one and two-sample models for population means; contingency tables (including relative risk, odds ratios, case-control studies, and estimation of sensitivity and specificity); linear regression; logistic regression; aspects of survival analysis, and ANOVA.

Prerequisites: MATH 111 or higher.

Carolina Core: ARP

Fundamental statistical methods with applications in business. Includes descriptive statistics, graphical methods, probability, distributions, sampling, inference, contingency tables, and linear regression.

Prerequisites: MATH 111 or higher.

Carolina Core: ARP

Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

Techniques of experimentation based on statistical principles with application to quality improvement and other fields. Full and fractional factorial designs for factors at two levels; dispersion effects; related topics.

Prerequisites: C or higher in MATH 122 or MATH 141; or both MATH 111 or higher and any statistical class.

Basic probability and statistics with applications and examples in engineering. Elementary probability, random variables and their distribution, random processes, statistical inference, linear regression, correlation and basic design of experiments with application to quality assurance, reliability, and life testing. May not be taken concurrently with or after STAT 513, STAT 515, or STAT 516. Not for C.A.S., M.A.S., or Ph.D credit in Statistics.

Prerequisites: MATH 142 or equivalent.

Probability and independence; discrete and continuous random variables; joint, marginal, and conditional densities; moment generating functions; laws of large numbers; binomial, Poisson, gamma, univariate and bivariate normal distributions.

Prerequisites: C or better in MATH 241.

Cross-listed course: MATH 511
STAT 512 - Mathematical Statistics (3 Credits)
Functions of random variables, order statistics, sampling distributions, central limit theorem, quality of estimators, interval estimation, sufficient statistics, minimum-variance unbiased estimator, maximum likelihood, large-sample theory, introduction to hypothesis testing.
Prerequisites: C or better in STAT 511 or MATH 511.

STAT 513 - Theory of Statistical Inference (3 Credits)
Hypothesis testing, Neyman-Pearson lemma, likelihood ratio tests, power, the theory of linear models including multiple linear regression and ANOVA, the Chi-square goodness-of-fit test, Chi-square inference for contingency tables, Bayesian inference, and advanced topics including survival analysis (only if time permits).
Prerequisites: C or better in STAT 512.

STAT 515 - Statistical Methods I (3 Credits)
Applications and principles of elementary probability, essential discrete and continuous probability distributions, sampling distributions, estimation, and hypothesis testing. Inference for means, variances, proportions, one-way ANOVA, simple linear regression, and contingency tables. Statistical packages such as SAS or R. May not be taken concurrently with or after STAT 509, STAT 513, or STAT 516. Not for CAS, MAS, MS, or PhD credit in Statistics.
Prerequisites: C or higher in MATH 122 or MATH 141; or both MATH 111 or higher and any statistics class.

STAT 516 - Statistical Methods II (3 Credits)
Applications and principles of linear models. Simple and multiple linear regression, analysis of variance for basic designs, multiple comparisons, random effects, and analysis of covariance. Statistical packages such as SAS. Not for CAS, MAS, MS, or PhD credit in Statistics.
Prerequisites: C or higher in STAT 515, STAT 509, STAT 512, or equivalent.

STAT 517 - Advanced Statistical Models (3 Credits)
Theory and applications of advanced statistical models. Includes implementation and assessment of generalized linear, nonlinear and nonparametric regression, mixed effect, repeated measures, multivariate regression, and spatial models.
Prerequisites: STAT 512 or STAT 516 or equivalent.

STAT 518 - Nonparametric Statistical Methods (3 Credits)
Applications and principles of nonparametric statistics. Classical rank-based methods, and selected categorical data analysis and modern nonparametric methods. Statistical packages such as R.

STAT 519 - Sampling (3 Credits)
Techniques of statistical sampling in finite populations with applications in the analysis of sample survey data. Topics include simple random sampling for means and proportions, stratified sampling, cluster sampling, ratio estimates, and two-stage sampling.
Prerequisites: C or higher in STAT 515, STAT 509, STAT 512, or equivalent.

STAT 520 - Forecasting and Time Series (3 Credits)
Time series analysis and forecasting using the multiple regression and Box-Jenkins approaches.
Prerequisites: STAT 516 or MGSC 391.

STAT 522 - Financial Mathematics I (3 Credits)
Prerequisites: C or better in MATH 241.

STAT 523 - Financial Mathematics II (3 Credits)
Prerequisites: C or better in MATH 514 or STAT 522.

STAT 525 - Statistical Quality Control (3 Credits)
Statistical procedures for process control including CUSUM and Shewhart Control Charts, and lot-acceptance sampling.
Prerequisites: STAT 509 or STAT 515 or MGSC 391.

STAT 528 - Environmental Statistics (3 Credits)
Statistical analysis of environmental data. Review of multiple regression and ANOVA, nonlinear regression models and generalized linear models, analyses for temporally and spatially correlated data, and methods of environmental sampling.
Prerequisites: STAT 516.

STAT 530 - Applied Multivariate Statistics and Data Mining (3 Credits)
Introduction to fundamentals of multivariate statistics and data mining. Principal components and factor analysis; multidimensional scaling and cluster analysis; MANOVA and discriminant analysis; decision trees; and support vector machines. Use of appropriate software.
Prerequisites: C or higher in STAT 515, STAT 205, STAT 509, STAT 512, ECON 436, MGSC 391, PSYC 228, or equivalent.

STAT 535 - Introduction to Bayesian Data Analysis (3 Credits)
Principles of Bayesian statistics, including: one- and multi-sample analyses; Bayesian linear models; Monte Carlo approaches; prior elicitation; hypothesis testing and model selection; hierarchical models; selected advanced models; statistical packages such as WinBUGS and R.
Prerequisites: C or higher in STAT 512; or CSCE 582 [=STAT 582]; or both STAT 511 and either STAT 509 or STAT 515; or equivalent.

STAT 540 - Computing in Statistics (3 Credits)
An introduction to statistical packages such as R and SAS with special focus on data management and computing procedures such as Monte Carlo simulation.
Prerequisites: C or higher in STAT 515, STAT 509, STAT 512, or equivalent.

STAT 541 - Advanced SAS Programming (3 Credits)
Advanced programming techniques in SAS, including database management, macro language, and efficient programming practices.
Prerequisites: STAT 540.
STAT 582 - Bayesian Networks and Decision Graphs (3 Credits)
Normative approaches to uncertainty in artificial intelligence.
Probabilistic and causal modeling with Bayesian networks and influence diagrams. Applications in decision analysis and support. Algorithms for probability update in graphical models.
Prerequisites: CSCE 350, STAT 509, or STAT 515.

Cross-listed course: CSCE 582

STAT 587 - Big Data Analytics (3 Credits)
Foundational techniques and tools required for data science and big data analytics. Concepts, principles, and techniques applicable to any technology or industry for establishing a baseline that can be enhanced by future study.
Prerequisites: STAT 509, STAT 513, or STAT 515.

Cross-listed course: CSCE 587

STAT 588 - Genomic Data Science (3 Credits)
This course focuses on quantitative knowledge for interdisciplinary applications in genetics as well as hands-on experience in analyzing genetic data. In this course, students will have programming exercises in using analysis tools to conduct genome-wide analysis, annotation, and interpretation of genetic data using R/Bioconductor packages.
Prerequisites: C or better in STAT 201 or higher.

Cross-listed course: BIOL 588

STAT 591 - Data Analysis for Teachers (3 Credits)
Introduction to statistics for elementary, middle, and high school teachers. The fundamentals of data collection, descriptive statistics, probability, and inference with special focus on methods of teaching statistical reasoning. For M.A.T. (excluding mathematics) / M.Ed. / M.T. and nondegree credit only.
Cross-listed course: SMED 591

STAT 599 - Topics in Statistics (1-3 Credits)
Course content varies and will be announced in the schedule of courses by title.

STAT 600 - Statistics for Applied Management (3 Credits)
Introduction to data collection, descriptive statistics, and statistical inference with examples from hospitality, retail, sport, and entertainment management. Focus on selecting, implementing, and interpreting the appropriate statistical methods using software such as Excel and SPSS. Not for minor or degree credit in Mathematics or Statistics. Does not prepare students for STAT 516, STAT 518, STAT 519 or STAT 525.

STAT 650 - AP Statistics for Teachers (3 Credits)

Swahili (SWAH)

SWAH 121 - Elementary Swahili (4 Credits)
Grammar and practical vocabulary necessary for fundamental communication skills. Assumes no prior experience in the language. Offered only in fall.

SWAH 122 - Basic Proficiency in Swahili (3 Credits)
Practice and further development of essential listening, reading, speaking, and writing skills. Offered in spring and summer II semesters.
Prerequisites: SWAH 121.

SWAH 201 - Intermediate Swahili (3 Credits)
Development of reading, speaking, listening, and writing skills; introduction of East African culture. SWAH 201 offered in fall, SWAH 202 offered in spring.

SWAH 202 - Intermediate Swahili (3 Credits)
Development of reading, speaking, listening, and writing skills; introduction of East African culture. SWAH 201 offered in fall, SWAH 202 offered in spring.

SWAH 399 - Independent Study (3-6 Credits)
Contract approved by instructor, advisor and department chair is required for undergraduate students.
Graduation with Leadership Distinction: GLD: Research

Theatre (THEA)

THEA 120 - Laboratory Theatre Production (1 Credit)
Procedures for implementation of processes involved in the Laboratory Theatre Production Program. Supervised preparation of all performance and production elements involved in the collaborative process of theatre production. Course content varies according to season production program. Permission of Instructor or by audition. May be repeated for credit.

THEA 121 - Theatre Running Crew Laboratory. (1 Credit)
Procedures and processes of running crews for the Mainstage Theatre Production Program. Collaborative teamwork through supervised participation in various theatre production running crews (management, scenic, lighting, sound, costumes and makeup). Course content varies according to season production program. May be repeated for credit.

THEA 122 - Theatre Performance Laboratory (1 Credit)
Preparation and procedures of the rehearsal and performance processes for the Mainstage Theatre Production Program. Collaborative teamwork through supervised participation in an acting company. Course content varies according to season production program. By audition only. May be repeated for credit.

THEA 123 - Theatre Production Studio (1 Credit)
Procedures and processes for the Mainstage Theatre Production Program. Collaborative teamwork through supervised participation in various theatre production student crews (scenic, lighting, sound, costume, makeup, and promotions). Course content varies according to season production program.
Prerequisites: THEA 120.

THEA 170 - Fundamentals of Acting (3 Credits)
Introduction to the art and craft of acting. Practical exploration through improvisation and scripted scene work. Includes a brief history of the development of modern acting techniques.
Carolina Core: AIU

THEA 172 - Basic Stage Makeup (1 Credit)
The study and application of the principles of the art of makeup for the theatre.
THEA 181 - Shakespeare in Performance (3 Credits)
Introduction to Shakespeare's works on page, stage, and screen. Emphasis placed on performances of scripts. History of Shakespeare's works/productions, stage/screen technique. Viewings of film adaptations required.

Carolina Core: AIU

THEA 200 - Understanding and Appreciation of Theatre (3 Credits)
An introduction to the understanding and appreciation of theatrical experience. Attendance at theatrical performances required.

Carolina Core: AIU

THEA 201 - Introduction to Theatre Studies (3 Credits)
Introduction to methods of analyzing and interpreting drama, with emphasis on play structure, genre, and style. Designed for the theatre major in preparation for theatre scholarship, performance, production, and design.

Graduation with Leadership Distinction: GLD: Research

THEA 221 - Stage Management Laboratory (2 Credits)
Supervised participation in theatre stage management. May be repeated once for credit.

Prerequisites: THEA 120 and THEA 121.

THEA 225 - Introduction to Stage Management (3 Credits)
An introduction to the roles of the stage manager throughout theatrical productions that include pre-production planning, oversight of the rehearsal process, running technical rehearsals and performances, and completing post-production duties.

THEA 230 - Make-up Design for Theatre and Film (3 Credits)
Theory and practice of make-up design for theatre and film. The application of analytical and research skills in the visual development of the character.

THEA 240 - Beginning Voice and Speech (3 Credits)
Study and practical application of voice and speech fundamentals in performance. Emphasis on speaking with ease, power and clarity to impact an audience.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

THEA 241 - Voice and Speech Studio (1-3 Credits)
Training in vocal skills needed by actors such as dialect, verse speaking and voice for a variety of media. Maybe repeated for credit.

Prerequisites: THEA 240.

THEA 252 - Stage Costume Construction (3 Credits)
An introductory course in the principles and practice of costume construction.

THEA 253 - Stagecraft (3 Credits)
A beginning course in the principles and practice of scenic technology.

THEA 270 - Beginning Acting (3 Credits)
An exploration of the acting process through scene study. Focus will be on developing the actor's personal technique, emphasizing emotional truthfulness and authenticity.

Prerequisites: THEA 170 or declaration of major.

THEA 280 - Elements of Design for Theatre Production (3 Credits)
Foundational application of design principles and vocabulary as applied to the creative process in production design for theatre. Play analysis, creative and visual thinking, and graphic representation.

THEA 283 - Introduction to Theatre Sound Design (3 Credits)
Introduces the students to the basic principles of sound design and technology. Related topics include physics of sound, use and maintenance of equipment, script analysis, and creative thinking.

THEA 288 - Introduction to Stage Lighting (3 Credits)
Principles and practices of theatrical lighting design. Course not available for major credit.

THEA 340 - Literature and Performance (3 Credits)
Introduction to the study of literature through performance; reading, analysis, and performance of prose, poetry, nonfiction, and drama.

Cross-listed course: SPCH 340

THEA 359 - Theatrical Imagery (3 Credits)
The theory and application of visual imagery in theatrical design; identification and selection of historical motifs.

THEA 369 - Japanese Culture and Society through Theatre (3 Credits)
Introduction to Japanese traditional theatre and its influences on Japanese culture and society. Taught in English.

Cross-listed course: JAPA 351

THEA 370 - Intermediate Acting (3 Credits)
Development of acting skills through study of acting techniques emphasizing emotional truthfulness and authenticity. Application to scene study, monologues and auditions. Intensive script analysis for character development.

Prerequisites: THEA 170 or THEA 270.

THEA 372 - Acting from a Physical Point of View (3 Credits)
Development of physical acting skills related to modern acting techniques emphasizing emotional truthfulness and authenticity. Promoting the experience of full body awareness and expressiveness in character development and storytelling. Includes performative states of relaxation, balance and presence and ensemble work.

THEA 373 - Movement Laboratory (1 Credit)
Training in specific physical skills for actors: stage combat, mime, folk dance, tap dance, etc. May be repeated for credit.

THEA 375 - Inner Mastery Thought Movement (3 Credits)
A mind/body integration course designed for performing artists.

THEA 380 - Production Design for Theatre (3 Credits)
Principles of production design in scenery, costumes, lighting and sound. Play analysis, periods styles, creative and visual thinking and graphic representation.

Prerequisites: THEA 280.

THEA 399 - Independent Study and Research (3-6 Credits)
Contract approved by instructor, advisor, and department chair is required for undergraduate students.

Graduation with Leadership Distinction: GLD: Research

THEA 425 - Advanced Stage Management (3 Credits)
Delving deeper into the role of the stage manager in theatrical productions that includes problem solving, adapting to challenging situations, and distinguishing the various responsibilities of production assistants, assistant stage managers, and production stage managers and their collaborative contributions.

Prerequisites: C or better in THEA 225.

THEA 440 - Advanced Voice and Speech for the Actor. (3 Credits)
Advanced vocal techniques as applied to performance. Specific skills covered may include vocal flexibility and range, vocal dynamics, dialects, and voice-over technique.

Prerequisites: THEA 240.
THEA 442 - Accents and Dialects for the Actor (3 Credits)
Study and practical application of major accents and dialects used by actors in performance. Emphasis on acquiring the skills necessary for independent learning of an accent or dialect.
Prerequisites: C or better in THEA 240.

THEA 444 - Voice Over and Voice Acting (3 Credits)
Principles and practice of a wide range of voice-over including commercial and narrative styles. Development of character voice as applied to animation, gaming and/or other audio storytelling. Focus is on practical skills necessary for the profession.
Prerequisites: C or better in THEA 240.

THEA 450 - Musical Theatre Workshop (2 Credits)
Intensive musical theatre training in areas of song interpretation, musical theatre, dance, voice and acting.
Cross-listed course: DANC 450, MUSC 450

THEA 452 - Special Topics in Costume Technology (3 Credits)
A specially skills course for advanced students of theatrical costume design and technology. Topics will include tailoring, fabric modification, needle arts, millinery, etc. Course may be repeated as topics vary.
Prerequisites: THEA 252.

THEA 453 - Computer Aided Drafting for Theatre (3 Credits)
Develop basic and intermediate skills in using computer aided drafting programs for theatrical designs and technical drawings.

THEA 480 - History of Cinema I (3 Credits)
Survey of the international cinema from its inception until 1945.

THEA 481 - History of Cinema II (3 Credits)
Survey of the international cinema from 1945 to the present.

THEA 489 - Introduction to Costume Design (3 Credits)
Introduction to the basic principles and elements of design as they apply to the costume designer. Script and character analysis, costume rendering, and production unity.
Prerequisites: THEA 280.

THEA 490 - Theatre Capstone Course (3 Credits)
Principles, procedures and practice of the creative and collaborative process. Aspects of the discipline with focus on creative and effective collaboration and communication skills among theatre artists, scholars and technicians. Practical and planning skills for professional success after graduation.
Prerequisites: THEA 270 and THEA 280, and 6 hours from 300 level class or above.

THEA 500 - Selected Topics in Theatre (1 Credit)
A series of courses, each lasting one-third of a semester. Topics and Prerequisites: are announced in the class schedule for each semester.

THEA 510 - Rendering Techniques for the Theatre (3 Credits)
Rendering techniques for the communication of concepts and mood in the design process.

THEA 520 - Playwright’s Workshop (3 Credits)
Principles and practice of playwriting. Writing, adapting, and revising plays. May be repeated with consent of department chair.

THEA 522 - Drama in Education (3 Credits)
Comprehensive review of drama strategies, methods and pedagogical practices to be applied to non-drama learning contexts. Practical experience with the necessary skills, philosophies and techniques of drama in education.

THEA 526 - Children’s Theatre (3 Credits)
Special problems in producing plays for child audiences.
Prerequisites: THEA 170 and THEA 253.

THEA 527 - Applied Theatre Arts (3 Credits)
Principles and practices of theatre-making within community contexts to address local issues and to provide aesthetic strategies for creative problem solving through theatre.

THEA 529 - Theatre Management (3 Credits)
Problems involved in organizing, administering, and promoting the non-professional theatre.

THEA 530 - Period Styles for Wig and Hair Design (3 Credits)
Research and execution of period styles for wigs, hair, and facial pieces as related to theatrical and media design.
Prerequisites: THEA 230 and THEA 550.

THEA 531 - Theatre Graphics (3 Credits)
Specialized graphic techniques used in the preparation of a theatrical production. Practice in the execution and interpretation of working drawings, perspective sketches, color renderings, scale models, etc.

THEA 540 - Voice and Movement: Practice and Performance (3 Credits)
A variety of vocal and movement techniques that apply to acting and coaching with special emphasis on the physical and vocal processes in performance.

THEA 547 - Global/Contextual Issues in Theatre Education Practice and Performance (3 Credits)
Survey and analysis of current drama teacher practice across international contexts in relationship to global, social and educational change.

THEA 550 - History of Costume (3 Credits)
A survey of clothing through the ages with emphasis on the dress of the actor in significant periods of theatrical activity. From ancient times to present day.

THEA 552 - Stage Costume Pattern Drafting and Drawing (3 Credits)
The principles of pattern making for costume construction using flat-pattern and draping techniques.

THEA 553 - Advanced Stagecraft (3 Credits)
Advanced principles and practices of stagecraft.
Prerequisites: THEA 253 or equivalent.

THEA 554 - Performing Arts Safety (3 Credits)
Study of health and safety hazards for actors, technicians, and audience members.

THEA 555 - Scene Painting for the Stage (3 Credits)
Techniques of scene painting. Application of principles of painting to the stage.

THEA 556 - Stage Design (3 Credits)
Survey of the history and principles of scene design. Assignments will involve drawings, watercolor sketches, and scale models.

THEA 557 - Advanced Scenic Design (3 Credits)
Advanced procedures and techniques of scenic design.
Prerequisites: THEA 556.

THEA 558 - Draping for the Modern Silhouette (3 Credits)
Apparel design through basic draping techniques on industry standard dress forms. Analysis of fit and design, problem solving and interaction of fabric characteristics with style features.
Prerequisites: B or better in THEA 551.
THEA 559 - Introductory Methods for K-12 Theatre Certification (3 Credits)
Developmental approaches to drama instruction in K-12 classroom settings.

THEA 561 - History of the Theatre I (3 Credits)
A survey of plays, playwrights, actors, production, and the physical development of theatres from the time of the Greeks to 1660; reading of representative plays required.

THEA 562 - History of the Theatre II (3 Credits)
A survey of plays, playwrights, actors, production, and the physical development of theatres from 1660 to the present; reading of representative plays required.

THEA 563 - History of Modern Theatre (3 Credits)
History of Western Theatre since the early 20th century. Students will be introduced to major figures, plays, and movements and explore influences from the broader culture on theatrical expression.

THEA 565 - African American Theatre (3 Credits)
The major movements, figures, plays, and critical strategies that have marked the development of African American theatre in the 19th, 20th, and 21st centuries.
Cross-listed course: AFAM 565, ENGL 565
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

THEA 567 - Dramatic Theory I (3 Credits)
A survey of the major works of dramatic theory and criticism, with emphasis on theories of theatrical performance from Aristotle through 18th-century neo-classicism.

THEA 568 - Dramatic Theory II (3 Credits)
A survey of the major works of dramatic theory and criticism, with emphasis on theories of theatrical performance from the 18th century to the present.

THEA 569 - Dramaturgy (3 Credits)
A study of dramatic structure as it relates to theatrical production. Emphasis on script reading and analysis. Production and new-works dramaturgy will be covered.

THEA 570 - Advanced Acting I (3 Credits)
Theory and practice in the development of a role and an understanding of the psychology of the audience-actor relationship.
Prerequisites: B or better in THEA 240 and THEA 372 and THEA 370.

THEA 571 - Advanced Acting II (3 Credits)
Technique of performing play scripts with heightened language and styles other than naturalism/realism. Some examples of genres that may be taught are Classical Greek, Elizabethan, absurdist.
Prerequisites: B or better in THEA 240 and THEA 372 and THEA 370.

THEA 572 - Advanced Makeup for Theatre and Film (3 Credits)
Makeup design for specific character types, prosthetics and three-dimensional makeup effects. Special attention to the process of sculpting and modeling for makeup prosthetics.
Prerequisites: THEA 230.

THEA 575 - Rehearsal and Performance (3 Credits)
An intensive laboratory course in theatrical and media performances.

THEA 576 - Rehearsal and Performance (3 Credits)
An intensive laboratory course in repertory theatre.

THEA 577 - Special Topics in Physical Theatre (3 Credits)
Research and performance training in selected topics related to physical theatre. Course content varies and will be announced in the schedule of classes by title. May be repeated as topics vary.

THEA 578 - Play Direction I (3 Credits)
A study of the principles, procedures and practice of stage direction, with the selection, analysis, casting, and rehearsal of a one-act play to be presented in the laboratory theatre.
Prerequisites: THEA 270, THEA 280, and 6 hours from 300 level or above.

THEA 579 - Play Direction II (3 Credits)
A continuation of THEA 578.
Prerequisites: THEA 578.

THEA 581 - Film as Performance (3 Credits)
Study and analysis of film production, performance, and aesthetics.

THEA 582 - Costume Design (3 Credits)
Theory and practice in the design of theatre costumes.

THEA 583 - Advanced Practice in Sound Design (3 Credits)
Advanced study in sound, production and design. Emphasis will be on mounting designs and refining design skills for Theatre, Music, and Media Arts students.

THEA 585 - Design for Communications Media Production (3 Credits)
The study and application of techniques in theatrical stagecraft, design, lighting, costuming, and makeup applicable to specialized fields of communication media.
Prerequisites: THEA 253, THEA 351.

THEA 586 - The Articulate Body (3 Credits)
Theoretical and experimental exploration of the major body systems and developmental movements to bring more articulation to the body and more awareness and physical ease in performance.
Cross-listed course: DANC 586

THEA 587 - Film and Television Acting (3 Credits)
Theory and practice of film and television acting.
Prerequisites: THEA 170.

THEA 588 - Stage Light Design I (3 Credits)
The interrelationship of stage lighting and other production elements. Design techniques, equipment, and script analysis. Laboratory work on department productions. Restricted to theatre majors or those having special permission of instructor.

THEA 589 - Adv. Stage Lighting Des. II (3 Credits)
Stage lighting equipment and design techniques. Laboratory work on departmental productions.

THEA 599 - Special Topics in Theatre (3 Credits)
Reading and research on selected topics. Course content varies and will be announced in the schedule of classes by title. May be repeated once as topics vary.

University Campuses (UCAM)

UCAM 110 - Careers in Education (3 Credits)
Role of the teacher and profession of teaching; observation and activities within cooperating schools are involved. Designed to assist students in the career decision-making process. Note: This course might not apply toward associate degrees or Columbia baccalaureate degrees.
UCAM 120 - Effective Reading (3 Credits)
Techniques for reading comprehension and their application through assignments in varied genres and in parallel reading. Class discussions and compositions. Note: May not be used for credit toward any baccalaureate degree.

University Experience (UNIV)

UNIV 101 - The Student in the University (3 Credits)
The purposes of higher education and potential roles of the student within the university. Open to freshmen. Also open to other undergraduate students in their first semester of enrollment.

UNIV 150 - The International Student in the University I (2 Credits)
Building skills and strategies for success in the USA and at USC for international students during their first full credit-bearing semester in the International Accelerator Program.

UNIV 151 - The International Student in the University II (1 Credit)
Building skills and strategies for success in the USA and at USC for international students in their final semester of the International Accelerator Program.

UNIV 201 - Fundamentals of Integrative Learning (1-3 Credits)
Integrates concrete experience with theoretical foundations by reflecting and applying information. Includes a focus on one more experiential pathways such as community service, diversity and social advocacy, global learning, professional/civic engagement, or research.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships, GLD: Research

UNIV 290 - Special Topics in the Residential College (1 Credit)
Interdisciplinary discussions for residential college students. Course content varies and will be announced in the schedule of classes by title. May be repeated as content varies by title.
Prerequisites: Residence hall students.

UNIV 401 - Senior Capstone Experience (1-3 Credits)
Integration of major program of study and general education; issues of transition into graduate school and/or employment; group project, intensive writing/speaking.

Women & Gender Studies (WGST)

WGST 112 - Introduction to Women's and Gender Studies (3 Credits)
A social science perspective of women in psychological, sociological, historical, anthropological, economic, and political contexts; the changing roles, images, and institutions.
Carolina Core: GSS, VSR
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy

WGST 113 - Women's Health (3 Credits)
Basic functioning of the female body; effects of society on processes of health and disease. Not for natural sciences credit.
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 207 - Gender and Culture (3 Credits)
Anthropological study of gender, with emphasis on cross-cultural investigation of the interaction of biological, cultural, and environmental factors including intersections of race, social class, and sexuality as influences gender behavior.
Cross-listed course: ANTH 207
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 210 - Human Life Cycles in Different Cultures (3 Credits)
Childhood, maturity, old age, and gender socialization within the family.
Cross-listed course: ANTH 210
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Community Service, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

WGST 298 - Issues in Women's and Gender Studies (1-3 Credits)
Course content varies and will be announced in the schedule of courses by title. May be repeated as content varies by title.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 299 - Women's and Gender Studies Internship for Non-Majors (3 Credits)
Supervised experience addressing a community organization's needs and allowing the student to explore an aspect of the community related to women's and gender studies issues. Contract approval by advisor required.
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 300 - Sex and Gender (3 Credits)
Offers a sociological lens to develop critical ways of thinking about sex and gender as social processes in everyday lives. This course considers how sex and gender shape and affect the experiences of women, men, girls, boys, and individuals who live in the spaces in-between (those who are intersex or transgender) across a wide range of social institutions (family, work, education, politics, etc.).
Prerequisites: SOCY 101.
Cross-listed course: SOCY 301
Carolina Core: GSS
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 301 - Psychology of Marriage (3 Credits)
The psychological, physiological, and social characteristics of marriage.
Cross-listed course: PSYC 301
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 304 - Race, Class, Gender, and Sexuality (3 Credits)
Historical and contemporary power relationships in race, social class, gender, and sexual orientation.
Cross-listed course: POLI 305, SOCY 304
Graduation with Leadership Distinction: GLD: Community Service, GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>WGST 305</td>
<td>Sociology of Families</td>
<td>3</td>
<td>Sociological perspectives related to various aspects of family behaviors, roles, and values.</td>
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<tr>
<td>Cross-listed course: SOCY 305</td>
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<td>Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences</td>
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<tr>
<td>WGST 306</td>
<td>Social Welfare Services for Women and Minorities</td>
<td>3</td>
<td>Social welfare services available to women and minorities and the forces that shape these services.</td>
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<tr>
<td>Cross-listed course: SOWK 305</td>
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<tr>
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<tr>
<td>WGST 307</td>
<td>Feminist Theory</td>
<td>3</td>
<td>Historical development of feminist theory and contemporary debates within feminism.</td>
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<tr>
<td>Cross-listed course: POLI 307</td>
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<tr>
<td>WGST 308</td>
<td>African-American Feminist Theory</td>
<td>3</td>
<td>An interdisciplinary survey of the contributions of African-American women to feminist theory.</td>
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<tr>
<td>Cross-listed course: AFAM 308</td>
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<tr>
<td>WGST 309</td>
<td>Sexual Diversities</td>
<td>3</td>
<td>Introduction and overview of theories, history, literature, politics, legal, health and social issues within human sexual diversities, including the intersections of gender, race, and social class.</td>
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<tr>
<td>Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences</td>
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<tr>
<td>WGST 310</td>
<td>Psychology of Women</td>
<td>3</td>
<td>Women's experiences: childhood and adolescence, work, family, cultural images, adjustment and social change.</td>
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<tr>
<td>Cross-listed course: PSYC 310</td>
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<tr>
<td>WGST 311</td>
<td>Minorities, Women, and the Mass Media</td>
<td>3</td>
<td>The study of the relationship among persons of color, women, and the mass media.</td>
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<td>Cross-listed course: JOUR 311</td>
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<tr>
<td>WGST 320</td>
<td>Sexuality and Gender in Ancient Greece</td>
<td>3</td>
<td>Gender roles, standards of sexual behavior, evidence for women's lives, as manifested in ancient Greek literary and archaeological evidence; attitudes toward homosexuality; the modern media's representation of famous Greeks.</td>
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<tr>
<td>Cross-listed course: CLAS 320</td>
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<tr>
<td>WGST 321</td>
<td>Sexuality, Gender, and Power in Ancient Rome</td>
<td>3</td>
<td>Sexuality as a social construct exemplified in standards of sexual behavior in ancient Rome and their reinforcement of the ruling ideology; feminine virtue, definitions of manliness, attitudes toward homosexuality.</td>
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<tr>
<td>Cross-listed course: CLAS 321</td>
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<tr>
<td>WGST 333</td>
<td>Sex, Gender, and Religion</td>
<td>3</td>
<td>Gender and sexuality in the shaping of social and individual identity in religious contexts.</td>
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<tr>
<td>Cross-listed course: RELG 333</td>
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<tr>
<td>WGST 334</td>
<td>Feminist Philosophy</td>
<td>3</td>
<td>Introduces feminist philosophy and applications to philosophical problems.</td>
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<tr>
<td>Cross-listed course: PHIL 334</td>
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<tr>
<td>WGST 335</td>
<td>Women in China</td>
<td>3</td>
<td>Introduces the connection between gender and the Chinese national imagination. Readings include cultural and historical documents that purport to explain the experience of women in China. Readings in English. Taught in English.</td>
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<tr>
<td>Cross-listed course: CHIN 335</td>
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<tr>
<td>Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences</td>
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<tr>
<td>WGST 351</td>
<td>The Family in Cross-Cultural Perspective</td>
<td>3</td>
<td>Kinship, systems of descent, marriage, and domestic organization in different cultures. Variations in childrearing practices, gender, and other aspects of social relations in kin groups. Cross-listed Course: ANTH 351</td>
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<td>Cross-listed course: ANTH 351</td>
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<tr>
<td>WGST 352</td>
<td>Gender and Politics</td>
<td>3</td>
<td>Impact of gender on the distribution of power in society; foundations for intersections of gender, race, social class, and sexuality and their economic, social, and political concomitants.</td>
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<tr>
<td>Cross-listed course: POLI 352</td>
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<tr>
<td>WGST 376</td>
<td>Holy Women</td>
<td>3</td>
<td>Holy women from various periods and religious traditions, and how they demonstrate the different ways communities understand ideas of holiness, from piety, martyrdom, monasticism and mysticism to social action.</td>
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<tr>
<td>Cross-listed course: RELG 376</td>
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<tr>
<td>WGST 379</td>
<td>Women in Modern Europe</td>
<td>3</td>
<td>Survey of women in European history from the eighteenth to the twenty-first century. Focus on women's citizenship beginning with Enlightenment idea of rights through developments in modern feminism.</td>
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<tr>
<td>Cross-listed course: HIST 379</td>
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<tr>
<td>Graduation with Leadership Distinction: GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences</td>
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</table>
WGST 381 - Gender and Globalization (3 Credits)
Examines the dialectic between globalization and the social construction of gender. Topics include the global assembly line, transnational markets for domestic labor and sex workers, and global feminist alliances.
Prerequisites: WGST 111 or WGST 112 or ANTH 102.

Cross-listed course: ANTH 381

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 388 - Cultures, Pregnancy, and Birth (3 Credits)
Anthropological study of pregnancy and birth with a cross-cultural focus comparing the United States to other nations. Examination of cultural factors such as prenatal care, dietary practices, taboos, birth location, practitioners, and birthing styles.

Cross-listed course: ANTH 388

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 392 - Global Women's Health (3 Credits)
This course examines health concerns important in the lives of women around the world through an overview of contemporary issues and challenges in the field of global health, broadly construed.

Cross-listed course: ANTH 392

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 398 - Special Topics in Women's and Gender Studies (1-3 Credits)
Course content varies and will be announced in the schedule of courses by title. May be repeated as content varies by title.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 399 - Independent Study (3 Credits)
Contract approved by instructor, advisor, and director of women's studies required for undergraduate students.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 430 - Topics in Women's Studies (1-3 Credits)
Course content varies and will be announced in the schedule of courses by title.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 431 - Women's Studies Workshop (1 Credit)
Selected small action-research project on selected issue(s) in women's studies.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 432 - Men and Masculinities (3 Credits)
Overview of psychological, social, physical, and emotional issues related to men's lives.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 437 - Women Writers (3 Credits)
Representative works written by women.
Prerequisites: C or higher in both ENGL 101 and ENGL 102.

Cross-listed course: ENGL 437

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 445 - LGBTQ+ Literature (3 Credits)
This course will examine LGBTQ+ (lesbian, gay, bisexual, trans, queer, and other nonnormative sexual identities) literatures and cultures.
Prerequisites: C or better in ENGL 101 and ENGL 102.

Cross-listed course: ENGL 445

WGST 454 - Women and the Law (3 Credits)
Constitutional and statutory case law dealing with gender equality issues. Topics include abortion, affirmative action, pornography, sexual harassment, fetal protection policies, employment discrimination, and women in the military.

Cross-listed course: POLI 454

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 464 - History of American Women (3 Credits)
The social, political, and economic roles and changing status of women in America.

Cross-listed course: HIST 464

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 487 - Black Women Writers (3 Credits)
An examination of literature by and about black women, including fiction, poetry, drama, and autobiography. This study will focus on issues that emerge from the creative representations of black women and the intersections of race, gender, sexuality, and class that interrogate what is both particular and universal experiences.
Prerequisites: ENGL 101; ENGL 102.

Cross-listed course: AFAM 487, ENGL 487

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 499 - Community Service Internship (3 Credits)
Supervised experience addressing a community organization's needs and allowing the student to explore an aspect of the community related to women's studies issues. Contract approval by advisor required.
Prerequisites: WGST 111, WGST 112 or WGST 113, plus one additional WGST course.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Internships
Experiential Learning: Experiential Learning Opportunity

WGST 515 - Race, Gender, and Graphic Novels (3 Credits)
Representations of race and gender in comics with a special emphasis on the experiences of African Americans.

Cross-listed course: AFAM 515

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 525 - The Psychology of the Midlife Woman (3 Credits)
Biological, social, and psychological aspects of the midlife woman.

Cross-listed course: PSYC 525

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
WGST 535 - Ecofeminism (3 Credits)
An exploration of the connections between oppression of women and oppression of nature.
Prerequisites: 3 hours in philosophy beyond the 100 level.

Cross-listed course: PHIL 535
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 541 - Issues in Women's Health (3 Credits)
An exploration of women's health and health care concerns from multiple perspectives.

Cross-listed course: NURS 541
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 551 - Adolescent Mentoring (3 Credits)
Application of skills and theories of adolescent mentoring taught in the classroom to a supervised, structured mentoring field experience.

Cross-listed course: CRJU 551

WGST 554 - Women and Crime (3 Credits)
Impact of gender-based relations on crime and the criminal justice system.

Cross-listed course: CRJU 554
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Global Learning, GLD: Professional and Civic Engagement Leadership Experiences

WGST 555 - Language and Gender (3 Credits)
Approaches to gender and language emphasizing the social grounding of both; how language reflects sociocultural values and is a tool for constructing different types of social organization.

Cross-listed course: ANTH 555, LING 541
Graduation with Leadership Distinction: GLD: Diversity and Social Advocacy, GLD: Professional and Civic Engagement Leadership Experiences

WGST 598 - Special Topics in Women's & Gender Studies (3 Credits)
Course content varies and will be announced in the schedule of courses by title. May be repeated as content varies by title.

Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences

WGST 621 - Maternal and Child Health (3 Credits)
Public health issues, social and behavioral science, policies, programs, and services related to maternal and child health in the United States and other countries.

Cross-listed course: HPEB 621
Graduation with Leadership Distinction: GLD: Professional and Civic Engagement Leadership Experiences
**CAROLINA CORE COURSES**

The Carolina Core curriculum has 10 Core components, each with learning outcome and credit hour requirements (http://sc.edu/about/offices_and_divisions/provost/academicpriorities/undergradstudies/carolinacore/requirements/). Honors students have access to additional honors courses (http://students.schc.sc.edu/courses/) that may satisfy Carolina Core requirements.

**Foundational Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Learning Outcome(s)</th>
<th>College</th>
<th>Overlay</th>
<th>Effective Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 201</td>
<td>Introduction to African American Studies: Social and Historical Foundations</td>
<td>Arts and Sciences</td>
<td>Fall 2013</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFAM 202</td>
<td>Introduction to African-American Studies</td>
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### Integrative Courses (by Major)

Students must complete an integrative course in their chosen major.

#### College of Arts and Sciences

**African-American Studies, B.A.**

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**Anthropology, B.A.**

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**Art Education, B.F.A.**

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**Art History, B.A.**

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<td>ARTH 521</td>
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<td>History of American Architecture</td>
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<td>Topics in Non-Western Art</td>
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<td>Trends in Art History</td>
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**Art Studio, BA**

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<td>Intermediate Ceramics I</td>
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### Carolina Core Courses

#### Art Studio, B.F.A.

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<td>Visual Meaning</td>
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<td>Capstone Printmaking I: Professional Practices</td>
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<td>Capstone Printmaking II: Exhibition</td>
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<td>Ceramics I</td>
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#### Biochemistry & Molecular Biology, B.S.

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<td>Cell and Molecular Biology</td>
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<td>BIOL 303</td>
<td>Fundamental Genetics</td>
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#### Cardiovascular Technology, B.S.

None

#### Chemistry, B.S.

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#### Chemistry, B.S.Chem.

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#### Chinese Studies, B.A.

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#### Classics, B.A.

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#### Comparative Literature, B.A.

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<td>What is Comparative Literature</td>
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#### Criminology & Criminal Justice, B.A.

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<td>Communities and Crime</td>
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<td>CRJU 554</td>
<td>Women and Crime</td>
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<td>CRJU 558</td>
<td>Crime Over the Life Course</td>
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<td>Race, Crime, and Criminal Justice</td>
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<td>The Death Penalty</td>
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<td>CRJU 577</td>
<td>Law and Criminal Justice Policy</td>
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<td>Selected Topics in Criminal Justice</td>
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#### Dance, B.A.

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<td>Integrated Approaches in Dance Education</td>
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<td>Teaching Internship in Dance Education</td>
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<td>Senior Capstone Dance Project</td>
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#### Economics, B.A. & B.S.

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**Environmental Science, B.S.**

**Course** | **Title** | **Credits**
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ENVR 201 | Environmental Science and Policy I | 4
ENVR 202 | Environmental Science and Policy II | 4
### Environmental Studies, B.A.

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### Geography, B.A. & B.S.

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### Global Studies, B.A.

- Any integrative course from another department that is included in the Global Studies major.

### History, B.A.

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### Interdisciplinary Studies, B.A.I.S. (College of Arts & Sciences)

- None

### Interdisciplinary Studies, B.S.I.S. (College of Arts & Sciences)

- None

### International Studies, B.A.

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<td>POLI 315</td>
<td>International Relations</td>
<td>3</td>
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<tr>
<td>POLI 316</td>
<td>Comparative Politics</td>
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### Latin American Studies, B.A.

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<td>LASP 301</td>
<td>Interdisciplinary Study of Latin America</td>
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<td>LASP 496</td>
<td>Senior Seminar</td>
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### Marine Science, B.S.

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<td>MSCI 311</td>
<td>Biology of Marine Organisms</td>
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<tr>
<td>MSCI 313</td>
<td>The Chemistry of the Sea</td>
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<tr>
<td>MSCI 314</td>
<td>Physical Oceanography</td>
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### Mathematics, B.S.

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<tr>
<td>MATH 554</td>
<td>Analysis I</td>
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### Media Arts, B.A.

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<td>FAMS 598</td>
<td>Special Topics in Global Film and Media</td>
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<td>FORL 598</td>
<td>Special Topics in Global Film and Media</td>
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<tr>
<td>MART 521A</td>
<td>Media Writing Advanced: Screenwriting</td>
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<tr>
<td>MART 521B</td>
<td>Media Writing Advanced: Feature Film</td>
<td>3</td>
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<tr>
<td>MART 521C</td>
<td>Media Writing Advanced: Manga and Anime</td>
<td>3</td>
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<tr>
<td>MART 521D</td>
<td>Media Writing Advanced: Television Writing</td>
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<td>MART 571A</td>
<td>Moving Image Advanced: Narrative</td>
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<tr>
<td>MART 571B</td>
<td>Moving Image Advanced: Documentary</td>
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<td>MART 571C</td>
<td>Moving Image Advanced: Animation</td>
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<tr>
<td>MART 571D</td>
<td>Moving Image Advanced: Experimental</td>
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<tr>
<td>MART 571E</td>
<td>Moving Image Advanced: Cinematography</td>
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<tr>
<td>MART 571F</td>
<td>Moving Image Advanced: Sound for Motion Picture</td>
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<tr>
<td>MART 581A</td>
<td>New Media Advanced: Site-based and Installation Art</td>
<td>3</td>
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<tr>
<td>MART 581B</td>
<td>New Media Advanced: Mobile Platforms</td>
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<tr>
<td>MART 581C</td>
<td>New Media Advanced: Media Performance</td>
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<tr>
<td>MART 581D</td>
<td>New Media Advanced: Video Game Design</td>
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<tr>
<td>MART 581E</td>
<td>New Media Advanced: Sound Art</td>
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<tr>
<td>MART 594</td>
<td>Special Topics in Global Film and Media</td>
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### Philosophy, B.A.
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<tbody>
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<td>PHIL 490</td>
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### Physics, BS
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<td>PHYS 510</td>
<td>Digital Electronics</td>
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<td>PHYS 511</td>
<td>Nuclear Physics</td>
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<td>PHYS 512</td>
<td>Solid State Physics</td>
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<tr>
<td>PHYS 514</td>
<td>Optics, Theory, and Applications</td>
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<tr>
<td>PHYS 531</td>
<td>Advanced Physics Laboratory I</td>
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<tr>
<td>PHYS 532</td>
<td>Advanced Physics Laboratory II</td>
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<td>POLI 316</td>
<td>Comparative Politics</td>
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<td>POLI 361</td>
<td>Elections and Voting Behavior</td>
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<td>POLI 368</td>
<td>Interest Groups and Social Movements</td>
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<td>POLI 370</td>
<td>Introduction to Public Administration</td>
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<td>POLI 374</td>
<td>Public Policy</td>
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<td>POLI 451</td>
<td>Constitutional Law</td>
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<td>POLI 462</td>
<td>The Legislative Process</td>
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<td>POLI 504</td>
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### Religious Studies, B.A.
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<td>RELG 488</td>
<td>Perspective in Religious Studies</td>
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### Russian, B.A.
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<td>RUSS 319</td>
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<td>RUSS 320</td>
<td>Twentieth-Century Russian Literature in Translation</td>
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### Sociology, B.A.
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<tr>
<td>SOCY 303</td>
<td>Sociological Research Methods</td>
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### Sociology, B.S.
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### Spanish, B.A.
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<td>SPAN 312</td>
<td>Introduction to Reading Hispanic Literary Texts</td>
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<td>Theory of Statistical Inference</td>
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### Theatre, B.A.
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<tr>
<td>THEA 578</td>
<td>Play Direction I</td>
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### Women's & Gender Studies, B.A.
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<td>Gender and Globalization</td>
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<td>WGST 381</td>
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<td>WGST 499</td>
<td>Community Service Internship</td>
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### Moore School of Business

#### Accounting, B.S.B.A.
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<thead>
<tr>
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<tbody>
<tr>
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<td>Strategic Management</td>
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#### Business Economics, B.S.B.A.
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#### Finance, B.S.B.A.
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#### Management, B.S.B.A.
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#### Marketing, B.S.B.A.
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<tr>
<td>MGMT 478</td>
<td>Strategic Management</td>
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#### Operations and Supply Chain, B.S.B.A.
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<td>Early Childhood Education, B.A.</td>
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<td>EDEC 591 Seminar on Teaching in Early Childhood</td>
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<td>Elementary Education, B.A.</td>
<td>EDEL 491 Seminar on Teaching</td>
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<td>Middle Level Education, B.A. &amp; B.S.</td>
<td>EDML 599 Internship B in the Middle School</td>
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<td>Physical Education, B.S.P.E.</td>
<td>PEDU 446 Physical Education Curriculum</td>
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<td>College of Engineering and Computing</td>
<td>Biomedical Engineering, B.S.</td>
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<td>BMEN 427 Senior Biomedical Engineering Design I</td>
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<tr>
<td>Chemical Engineering, B.S.E.</td>
<td>ECHE 466 Chemical-Process Analysis and Design II</td>
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<tr>
<td>Civil Engineering, B.S.E.</td>
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<td>Computer Information Systems, B.S.</td>
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<td>Mechanical Engineering, B.S.E.</td>
<td>EMCH 427 Mechanical Design I</td>
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<th>Interdisciplinary Studies, BarSC</th>
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<tr>
<th>College of Hospitality, Retail, and Sport Management</th>
<th>Hospitality Management, B.S.</th>
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<td>Retailing, B.S.</td>
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<td>Sport &amp; Entertainment Management, B.S.</td>
<td>SPTE 444 Sports and Entertainment Event Management</td>
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<th>College of Information and Communications</th>
<th>Advertising, B.A.J.M.C.</th>
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<tr>
<td>JOUR 447 Photovisual Communications II: Advanced Photography</td>
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<tr>
<td>JOUR 517 Integrated Campaigns</td>
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<td>JOUR 537 The Carolina Agency</td>
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<tr>
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<td>JOUR 586 Capstone I - Advanced Reporting - Broadcast and Online Journalism</td>
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<td>JOUR 587 Capstone I - Advanced Reporting - Multimedia Journalism</td>
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<td>JOUR 506 Mass Media Criticism</td>
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<th>Credits</th>
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<tr>
<td>JOUR 447 Photovisual Communications II: Advanced Photography</td>
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<tr>
<td>JOUR 537 The Carolina Agency</td>
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### Visual Communications, B.A.J.M.C.

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<td>JOUR 560</td>
<td>Capstone Portfolio Development</td>
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### Information Science, B.S.

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<td>JOUR 491</td>
<td>Communication and Information Transfer</td>
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<td>SLIS 420</td>
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<tr>
<td>SLIS 450</td>
<td>Information Issues in Cultural Heritage Institutions</td>
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### School of Music

#### Music, B.A. & B.M.

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<tr>
<td>MUSC 455</td>
<td>History of Western Music III</td>
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### College of Nursing

#### Nursing-Generic, B.S.N.

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<td>NURS 400</td>
<td>Evidence-based Nursing Practice</td>
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#### Nursing (RN to BSN), B.S.N.

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<tbody>
<tr>
<td>NURS 400</td>
<td>Evidence-based Nursing Practice</td>
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### Palmetto College

#### Organizational Leadership, B.A.

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#### Liberal Studies, B.A.

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<td>PALM 493</td>
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### College of Pharmacy

#### Pharmaceutical Sciences, B.S.

- None

### Arnold School of Public Health

#### Exercise Science, B.S.

<table>
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<td>Practicum in Community Fitness Programs</td>
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<tr>
<td>EXSC 482</td>
<td>Internship in Life-Span Motor Development</td>
<td>9</td>
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<tr>
<td>EXSC 483</td>
<td>Internship in Scientific Foundations</td>
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#### Public Health, B.A. & B.S.

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<td>PUBH 498</td>
<td>Public Health Capstone Seminar</td>
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### College of Social Work

#### Social Work, B.S.W.

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<td>Capstone</td>
<td>3</td>
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Policies and Regulations

Here you will find helpful information concerning undergraduate admissions and academic regulations for the University of South Carolina System.

Admissions Policies and Procedures

General Information

An application for admission must be submitted and approved and an official notification of acceptance issued by the Office of Undergraduate Admissions before any person may enroll in an undergraduate course. Before action can be taken on an application for admission, all credentials required by University policy must be received by the admissions office, which has responsibility for evaluation of credentials for the purpose of admission.

Applications must be accompanied by a nonrefundable application fee specified on the application form. Application forms are available online at http://www.sc.edu/admissions/.

Applications submitted more than one year in advance of the anticipated date of enrollment will be acknowledged, but no action will be taken until admission standards for the year in question have been established. The number of students admitted and enrolled in any year will be determined by the capacity of the institution to provide for the educational and other needs of the students and by budgetary or other appropriate considerations. Undergraduate admissions policies and procedures are subject to continuous review by the admissions staff and the Faculty Admissions Committee and may be changed without notice.

Selected applicants who present evidence of special talents for University programs requiring such special talents may be evaluated on the basis of these talents as well as high-school grades and entrance examination scores. The University reserves the right to place conditions on the admission of any student. In the event such action is taken, the conditions will be clearly explained in the letter of acceptance.

Proof of immunity to measles, mumps, rubella and meningitis is required before a student will be allowed to enroll in classes at the University of South Carolina.

Campus visits may be arranged through the University Visitor Center. Individual and group tours of the University leave the Visitor Center during regularly scheduled times on weekdays and by special arrangement. Admissions counselors are available Monday through Friday. The admissions office is usually open throughout the year except for established university holidays. A complete listing of university holidays can be found here (http://www.sc.edu/about/offices_and_divisions/human_resources/benefits/time_away/holidays/).

Freshman Admission

A freshman applicant is a person who has not attended a regionally accredited college or university after high-school graduation.

Freshman applicants are encouraged to apply in the fall prior to the fall for which they seek admission, but no later than the December 1 priority deadline. Additional information about current admission deadlines, credential requirements and notification dates can be found on the undergraduate admissions website (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Assessment of Academic Records

Freshman applicants who satisfy the course requirements listed above will be evaluated on the basis of demonstrated academic achievement, including grades, rigor of courses, and test scores. These factors will be used to determine the applicant's probability of completing the requirements for the desired degree. Click here (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/requirements/for_freshmen/admitted_class_profile/) to view the profile of the admitted class. The overall strength of the applicant pool strongly impacts one's chance of admission. When warranted, factors such as extenuating personal circumstances, activities, and evidence of leadership and service will be taken into consideration.

Transfer Admission

An applicant who, having graduated from high school, has attended another regionally accredited postsecondary institution and attempted one or more courses is a transfer student, regardless of credit earned. If fewer than 30 semester hours (45 quarter hours) of college-level work have been attempted, the applicant must meet both transfer and freshman entrance requirements.

Additional information about current transfer admission deadlines, credential requirements and notification dates can be found on the undergraduate admissions website (http://www.sc.edu/about/offices_and_divisions/undergraduate_admissions/requirements/).

Note: Deadlines are subject to change at any time. Visit http://www.sc.edu/admissions/ for the most up-to-date information.

All applicants for transfer admission must be eligible to return to the last institution attended as a degree-seeking student.

The applicant must submit official transcripts of all previous college courses attempted whether or not credit was earned and regardless of whether the applicant wishes to transfer any credit. An official transcript must be sent directly to the admissions office from each institution attended. Failure to report all attempted college courses may constitute sufficient cause for later dismissal from the University.

Transfer applicants from regionally accredited colleges and universities are required to have a minimum grade point average of 2.25 (on a 4.00 scale) on all college-level courses attempted.

In addition to the general requirements for admission outlined in this section, some departments and colleges within the University set additional requirements that may be higher than the University’s minimum standards. For more specific information concerning entrance requirements for individual colleges and departments, refer to the program section of this bulletin or the undergraduate admissions website.

For the purpose of admission, a transfer grade point average is calculated using all credits attempted and all grades earned on college-level courses (e.g. non-developmental, non-remedial) at other institutions. Colleges within the University have the right to consider all attempted college-level work in determining admission to particular programs and/or advancement into upper-division or professional-level courses. Transfer students should consult the section of this bulletin for the college in which the student plans to study for further information about the use of credits and grades from previous college work. For regulations on
graduation with honors, see “Undergraduate Academic Regulations (p. 765).”

Regardless of the point in an academic career at which students enter the University, all must complete the final year (the last 30 semester hours before graduation) enrolled in classes approved by the appropriate dean of the college, school, or campus from which the degree will be granted. Some USC colleges require half of all degree credits to be earned while enrolled at this University.

**Evaluation of Transfer Credits**

Transfer credits to USC must be from regionally accredited institutions for academic courses completed with grades of C- or better. Applicability of credits toward a particular degree is determined by the college or major in which the student enrolls. The number of credits acceptable to the University and the number which may apply toward a particular degree may differ.

Students transferring from non-accredited colleges may be allowed to validate credit after admission to the University. Details of the validation procedure vary and may be obtained from the dean’s office of the college in which the student is enrolled.

Original records are required for courses exempted at a previous college. Exemption credit or acceptance of transfer credit by another college has no bearing on the evaluation of transfer credit at the University of South Carolina.

Students transferring to the University from another college or university must, before enrolling in class at the University, have their transcripts evaluated by the University. It is only in the light of such evaluation that students will know definitively the transferability and equivalency of each transfer course. Degree applicability will be determined by the college or school in which the student is enrolled.

**Transferability** refers to the conditions under which the University accepts credit for inclusion in the student’s record. Transfer courses must have been taken at a regionally accredited post-secondary institution, or, if taken at a foreign post-secondary institution, have been recommended by a NACES - member external evaluation service. Coursework classified as remedial by the University will appear on the student’s record, but will not be used to determine admission eligibility or a transfer GPA. Exceptions to this rule may be made by the Office of the Registrar when state scholarship eligibility rules require inclusion.

**Equivalency** entails equating transfer credit, both in hours and content, to University of South Carolina coursework. The Registrar’s Office works with USC colleges and schools to coordinate the process of transfer evaluation to equate transfer courses directly to courses in the USC course catalog; to subject codes which represent subjects not offered at USC; or to subject codes that identify courses as remedial/technical/non-accredited coursework. A list of transfer equivalencies for the Columbia catalog of courses can be found at: [http://registrar.sc.edu/html/transferable.stm](http://registrar.sc.edu/html/transferable.stm)

**Applicability** of credit toward a degree refers to the prerogative of academic divisions to count specific credit toward the fulfillment of a student’s degree requirements. The student’s college or school of enrollment is responsible for determining applicability.

However, a transfer course is not applicable towards any University of South Carolina academic program or degree if:

1. The transfer course was essentially remedial in nature (example: Developmental English).
2. The transfer course was occupational or technical in nature (examples: welding, paralegal, radiography courses).
3. A grade lower than 2.0 on a 4 point scale, or equivalent, was earned in the transfer course.
4. The transfer course was taken by a degree-seeking University of South Carolina student without prior approval as described in the Earning Credit in Transient Status section of this bulletin.
5. The transfer course was taken while a student was on an academic suspension from the university.
6. The student received any grade other than W an equivalent course at this university, unless the student was enrolled full time at least one year at the transfer institution.

Exceptions to the rules of applicability may be made only by petition to the dean for undergraduate studies of the College or School in which the student is majoring.

A maximum of 76 semester hours may be transferred for degree credit from a junior college or two-year institution which is accredited by a regional association such as the Southern Association of Colleges and Schools.

A maximum of 30 semester hours of credit by correspondence and credit awarded for educational experiences in the military may be applied toward meeting the requirements for a baccalaureate degree. The 30 semester hours of credit which may be awarded for educational experiences in the military should be in accordance with recommendations published by the American Council on Education and be consistent with University policy on the transfer of credit but will only be applied to a degree program upon the approval of the dean of the college from which the degree is to be awarded.

Veteran students may receive credit toward graduation for training received under many of the armed forces college training programs. University credit also may be given for specialized and technical training done under the auspices of the armed forces and for courses taken through the United States Armed Forces Institute/DANTES. This training may be accepted by the University for credit only if it is at the college level, if it is approved by the University, and if it is appropriate to the particular University course of study in which the student enrolls.

Armed forces training will not be evaluated until the applicant has been accepted for admission; however, credentials should be submitted with the admission application. No credit is given for high-school or college-level GED tests.

(Information regarding educational benefits to veterans and the children of deceased or disabled veterans may be found in the section on financial aid. Additional information for veterans is available from the Office of Veteran Student Services, University of South Carolina Columbia.)

A maximum of 30 semester hours of credit earned while classified as a nondegree special student in the University may be applied toward meeting the requirements for a baccalaureate degree.

A student planning to pursue work at other institutions or through correspondence must complete this work before attaining senior classification (90 semester hours).

Courses completed at any institution while the student is suspended by the University will not be accepted toward a degree at USC. All college-
level coursework attempted under academic suspension will be used to evaluate a student’s eligibility for admission.

**Transfer: State Policy and Procedures**

**Background**

Section 10-C of the South Carolina School-to-Work Transition Act (1994) stipulated that the Council of College and University Presidents and the State Board for Technical and Comprehensive Education, operating through the Commission on Higher Education, develop better articulation of associate and baccalaureate degree programs. To comply with this requirement, the commission, upon the advice of the Council of Presidents, established a Transfer Articulation Policy Committee composed of four-year institutions’ vice presidents for academic affairs and the Associate Director for Instruction of the State Board for Technical and Comprehensive Education. The principal outcomes derived from the work of that committee and accepted by the Commission on Higher Education on July 6, 1995, were:

- An expanded list of 86 courses which transfer to four-year public institutions of South Carolina from the two-year public institutions;
- A statewide policy document on good practices in transfer to be followed by all public institutions of higher education in the State of South Carolina, which was accepted in principle by the Advisory Committee on Academic Programs and the commission;
- Six task forces on statewide transfer agreements, each based in a discipline or broad area of the baccalaureate curriculum.

In 1995 the General Assembly passed Act 137 which stipulated further that the South Carolina Commission on Higher Education “notwithstanding any other provision of law to the contrary, shall have the following additional duties and functions with regard to the various public institutions of higher education.” These duties and responsibilities include the commission’s responsibility “to establish procedures for the transferability of courses at the undergraduate level between two-year and four-year institutions or schools.” This same provision is repeated in the legislation developed from the Report of the Joint Legislative Study Committee.

Act 137 directed the commission to adopt the following procedures for the transfer of courses from all two-year public to all four-year public institutions of higher education in South Carolina.

**Statewide Articulation of 86 Courses**

1. The Statewide Articulation Agreement of 86 courses already approved by the South Carolina Commission on Higher Education for transfer from two- to four-year public institutions shall be applicable to all public institutions, including two-year institutions and institutions within the same system. In instances where an institution does not have synonymous courses to ones on this list, it shall identify comparable courses or course categories for acceptance of general education courses on the statewide list.

**Admissions Criteria, Course Grades, GPAs, Validations**

2. All four-year public institutions shall issue annually in August a transfer guide covering at least the following items:
   a. The definition of a transfer student and requirements for admission both to the institution and, if more selective, requirements for admission to particular programs.
   b. Limitations placed by the institution or its programs for acceptance of standardized examinations (e.g., SAT, ACT) taken more than a given time ago, for academic course work taken elsewhere, for course work repeated due to failure, for course work taken at another institution while the student is academically suspended at his/her home institution, and so forth.
   c. Institutional and, if more selective, programmatic maximums of course credits allowable in transfer.
   d. Institutional procedures used to calculate student applicants’ GPAs for transfer admission. Such procedures shall describe how nonstandard grades (withdrawal, withdrawal failing, repeated course, etc.) are evaluated; and they shall also describe whether all course work taken prior to transfer or just course work deemed appropriate to the student’s intended four-year program of study is calculated for purposes of admission to the institution and/or programmatic major.
   e. Lists of all courses accepted from each technical college (including the 72 courses in the Statewide Articulation Agreement) and the course equivalencies (including “free elective” category) found on the home institution for the courses accepted.
   f. Lists of all articulation agreements with any public South Carolina two-year or other institution of higher education, together with information about how interested parties can access these agreements.
   g. Lists of the institution’s Transfer Officer(s) personnel together with telephone and fax numbers and office address.
   h. Institutional policies related to “academic bankruptcy” (i.e., removing an entire transcript or parts thereof from a failed or underachieving record after a period of years has passed) so that re-entry into the four-year institution with course credit earned in the interim elsewhere is done without regard to the student’s earlier record.
   i. “Residency requirements” for the minimum number of hours required to be earned at the institution for the degree.

3. Course work (individual courses, transfer blocks, statewide agreements) covered within these procedures shall be transferable if the student has completed the course work with a “C” grade (2.00 on a 4.00 scale) or above, but transfer of grades does not relieve the student of the obligation to meet any GPA requirements or other admissions requirements of the institution or program to which application has been made.
   a. Any four-year institution which has institutional or programmatic admissions requirements for transfer students with cumulative grade point averages (GPAs) higher than 2.00 on a 4.00 scale shall apply such entrance requirements equally to transfer students from regionally accredited South Carolina public institutions regardless of whether students are transferring from a four-year or two-year institution.
   b. Any multi-campus institution or system shall certify by letter to the commission that all course work at all of its campuses applicable to a particular degree program of study is fully acceptable in transfer to meet degree requirements in the same degree program at any other of its campuses.

4. Any course work (individual courses, transfer blocks, statewide agreements) covered within these procedures shall be transferable to any public institution without any additional fee and without any further encumbrance such as a “validation examination,” “placement examination/instrument,” “verification instrument,” or any other stricture, notwithstanding any institutional or system policy, procedure, or regulation to the contrary.
Transfer Blocks, Statewide Agreements, Completion of the A.A./A.S. Degree

5. The following Transfer Blocks/Statewide Agreements taken at any two-year public institution in South Carolina shall be accepted in their totality toward meeting baccalaureate degree requirements at all four-year public institutions in relevant four-year degree programs, as follows:

- Arts, Humanities, and Social Sciences: Established curriculum block of 46-48 semester hours
- Business Administration: Established curriculum block of 46-51 semester hours
- Engineering: Established curriculum block of 33 semester hours
- Arts and Sciences, curriculum II: Established curriculum block of 48-51 semester hours
- Teacher Education: Established curriculum block of 38-39 semester hours for early childhood, elementary, and special education students only. Secondary education majors and students seeking certification who are not majoring in teacher education should consult the Arts, Humanities, and Social Sciences or the Math and Science transfer blocks, as relevant, to assure transferability of course work.
- Nursing: By statewide agreement, at least 60 semester hours shall be accepted by any public four-year institution toward the baccalaureate completion program (BSN) from graduates of any associate degree program in nursing (ADN), provided that the program is accredited by the National League of Nursing and that the graduate has successfully passed the National Licensure Examination (NCLEX) and is a currently licensed registered nurse.

6. Any “unique” academic program not specifically or by extension covered by one of the statewide transfer blocks/agreements listed in #4 above shall either create its own transfer block of 35 or more credit hours with the approval of CHE staff or shall adopt either the Arts/Social Science/Humanities or the Science/Mathematics block by September 1996. The institution at which such program is located shall inform the staff of the CHE and every institutional president and vice president for academic affairs about this decision.

7. Any student who has completed either an Associate of Arts or Associate of Science degree program at any public two-year South Carolina institution which contains within it the total course work found in either the Arts/Social Science/Humanities Transfer Block or the Math/Science Transfer Block shall automatically be entitled to junior-level status or its equivalent at whatever public senior institution to which the student might have been admitted. (Note: As agreed by the Committee on Academic Affairs, junior status applies only to campus activities such as priority order for registration for courses, residence hall assignments, parking, athletic event tickets, etc., and not in calculating academic degree credits.)

Related Reports and Statewide Documents

8. All applicable recommendations found in the commission’s report to the General Assembly on the School-to-Work Act (approved by the commission and transmitted to the General Assembly on July 6, 1995) are hereby incorporated into the procedures for transfer of course work among two- and four-year institutions.

9. The policy paper entitled State Policy on Transfer and Articulation, as amended to reflect changes in the numbers of transfer blocks and other Commission action since July 6, 1995, is hereby adopted as the statewide policy for institutional good practice in the sending and receiving of all course credits to be transferred.

Assurance of Quality

10. All claims from any public two- or four-year institution challenging the effective preparation of any other public institution’s course work for transfer purposes shall be evaluated and appropriate measures shall be taken to assure that the quality of the course work has been reviewed and approved on a timely basis by sending and receiving institutions alike. This process of formal review shall occur every four years through the staff of the Commission on Higher Education, beginning with the approval of these procedures.

Statewide Publication and Distribution of Information on Transfer

11. The staff of the Commission on Higher Education shall print and distribute copies of these Procedures upon their acceptance by the commission. The staff shall also place this document and the Appendices on the commission’s Home Page on the Internet under the title “Transfer Policies.”

12. By September 1 of each year, all public four-year institutions shall post their own Home Page on the Internet under the title “Transfer Policies”:

a. Print a copy of this entire document (without appendices).

b. Print a copy of their entire transfer guide.

c. Provide to the staff of the commission in satisfactory format a copy of their entire transfer guide for placing on the commission’s Home Page on the Internet.

13. By September 1 of each year, the staff of the State Board for Technical and Comprehensive Education shall place on its Home Page on the Internet under the title “Transfer Policies”:

a. Print a copy of this document (without appendices).

b. Provide to the commission staff in format suitable for placing on the commission’s Home Page of the Internet a list of all articulation agreements that each of the sixteen technical colleges has with public and other four-year institutions of higher education, together with information about how interested parties can access those agreements.

14. Each two-year and four-year public institutional catalog shall contain a section entitled “Transfer: State Policies and Procedures.” Such section at a minimum shall:

a. Publish these procedures in their entirety (except Appendices)

b. Designate a chief Transfer Officer at the institution who shall
   • provide information and other appropriate support for students considering transfer and recent transfers
   • serve as a clearinghouse for information on issues of transfer in the State of South Carolina
   • provide definitive institutional rulings on transfer questions for the institution’s students under these procedures
   • work closely with feeder institutions to assure ease in transfer for their students

c. Designate other programmatic Transfer Officer(s) as the size of the institution and the variety

d. Refer interested parties to the institutional Transfer Guide of the state’s four-year institutions

e. Refer interested parties to the institution’s and the Commission on Higher Education’s Home Pages on the Internet for further information regarding transfer.
Admission to Columbia Campus for USC System Students

USC-System Common Curriculum

The purpose of the USC-System Common Curriculum is to recognize the essential curricular requirements that already exist at each of our USC institutions which are common to all. Collectively we are in agreement that we share the following competency categories: written and spoken communication, numerical and analytical reasoning, foreign language or culture studies, natural science, and history. As is the current practice, each institution will identify courses which meet the competency requirements and these will be accepted across the USC-System to meet the USC-System Common Curriculum. At each of our USC-system institutions the USC-System Common Curriculum is consistent with the individual institution's own baccalaureate general education and major program requirements.

The USC-System Common Curriculum is described as follows:

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<th>Requirements</th>
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<td>Communication - Writing</td>
<td>6</td>
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<tr>
<td>Communication - Speech</td>
<td>3</td>
</tr>
<tr>
<td>Numerical/Analytical Reasoning</td>
<td>6</td>
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<tr>
<td>Foreign Language or Cultural Studies</td>
<td>3</td>
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<td>Natural Sciences</td>
<td>7</td>
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<td>Social or Behavioral Science</td>
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<td>History</td>
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1. 3 hours or appropriate placement test score

University of South Carolina system students who wish to apply for admission to the Columbia campus must complete the system transfer application, which is available at http://www.sc.edu/admissions/. A student who wishes to be considered for admission from another USC campus must fulfill one of the following requirements:

1. Be in good standing, meet the admission requirements for a baccalaureate degree on the Columbia campus, and have a USC GPA of 2.0 or higher.
2. Be in good standing and have completed 30 semester hours with a GPA of 2.0 or higher on a USC campus.

Some colleges and schools have a higher GPA requirement to be considered for Columbia admission. Please review http://www.sc.edu/admissions/ or your intended academic department in the Undergraduate Bulletin for current system transfer requirements and deadlines.

Admission to South Carolina Honors College

Regardless of chosen major, qualified students at USC have the opportunity to participate in the University’s Honors College. A special application for admission into the South Carolina Honors College is required. Most students in the college enter as freshmen. Students who have already completed at least one semester - at USC or elsewhere - may apply as transfer students. Details are provided later in this bulletin; please consult the index. Those who wish to participate in the college should contact the Office of Undergraduate Admissions.

Admission as a Non-Degree-Seeking Candidate

Applicants who wish to attend the University for one semester or on some limited basis may be approved to do so upon submitting an application accompanied by an explanation of their educational goals. The admissions office reserves the right to determine the proper category of admission and to determine what credentials may be required.

Special Students

This category is for part-time applicants who are not interested in earning a degree at USC. A maximum of 30 semester hours may be earned in this category. Applicants who have been officially denied admission as degree-seeking students are not eligible for admission as non-degree students. Courses completed by special students carry full University credit; however, none of the hours is applicable to a degree until the student applies and qualifies for admission to a degree program. Visiting or transient students are required to submit transient permission from their home institution that includes verification of good academic standing. All special applicants who have completed a bachelor's degree must present official proof of degree. Proof of degree is designated as an official transcript from the degree-granting institution or an official letter from the degree-granting institution certifying the degree and date earned.

Concurrent

High-school juniors and seniors who have excelled in their studies may enroll in appropriate courses at the University upon recommendation of the school counselor or principal and with approval of the USC department in which courses are to be taken. Interested students must submit high-school records and test scores that demonstrate exceptional performance and potential for success in college courses.

Auditor

An auditor may apply as a special student (see above). Classes that are audited at USC may not be retaken for credit towards a degree later.

Military Special

Certification of active duty military status is required.

Persons attending the University in any of these categories will be non-degree candidates. Credit earned while attending as a non-degree candidate may be used toward a degree only after the student has applied for and been accepted into a degree program. An applicant denied admission to any degree category is not eligible for admission as a non-degree student. The period of enrollment in these categories is limited by either time or number of allowable credits. The official acceptance letter explains all enrollment restrictions for the category in question. Non-degree students are not eligible for financial aid, veterans’ benefits, or on-campus housing during the fall or spring terms. Rooms on the campus may be available to students in the summer whether or not they are working for degrees.

Readmission of Former Students

An application for readmission must be submitted by any former student who wishes to return to the University after missing a major (fall or spring) semester. Summer sessions do not count as a major semester in this instance. The readmit application is available at http://www.sc.edu/
admissions (http://www.sc.edu/admissions/). Readmission to the University and to the program in which the student was previously enrolled is not automatic. An interview may be requested and some basis for a favorable decision may be required.

The University of South Carolina’s minimum USC GPA requirement for readmission is 2.0, but some colleges and schools have a higher requirement. Please review http://www.sc.edu/admissions (http://www.sc.edu/admissions/) for current readmission requirements.

Students who attend the University as special students (including probationary or non-degree candidates) are not considered for “readmission” because these students were not fully admitted to the University originally. If special students wish to return to the University as degree-seeking candidates, they must apply for regular admission as freshmen or transfer students, furnishing all official transcripts and any entrance test scores which may be required.

Students who leave the University in good standing, miss one or more major semesters, and attend another institution while away must submit the application for readmission and official transcripts of all college-level work attempted during their absence from the University. Such applicants must meet the same requirements as transfer students.

A student who leaves the University on suspension must apply for readmission upon completion of the period of suspension and qualify for readmission to the major program requested. To attempt to return to the University prior to the completion of the suspension period requires:

1. an application for readmission and a petition for reinstatement if a major semester has been missed; or
2. a petition for reinstatement if the attempt is being made after notification of suspension but prior to missing a major semester. A petition for reinstatement is made to the University college from which the student was suspended.

If students attend another college-level institution while suspended from the University, they must maintain a satisfactory average at that institution in order to retain the privilege of being considered for readmission at the conclusion of their suspension. The University does not transfer credit earned during a period of suspension, but the quality of grades could affect the decision on readmission.

Applications should be submitted before these deadlines:
- Fall term: July 1
- Spring term: November 1
- Summer term: April 1

Note: These deadlines are subject to change at any time. Check http://www.sc.edu/admissions (http://www.sc.edu/admissions/) for the most up-to-date information.

Admission to Other Programs

Evening Program
Application should be made through the Office of Undergraduate Admissions and all usual requirements for admission must be met.

Senior and Regional Campuses
For complete information, consult the admissions office on the campus where the student plans to enroll.

Summer School Admission
New undergraduate students entering the University for the first time in a summer term who expect to continue studying toward a degree submit only one application. They must meet all requirements for admission as degree-seeking students before the beginning of the summer term.

Summer Attendance Only
Students who wish to attend the University for the summer only should apply as special students under the “Admission as a Non-degree-Seeking Candidate” paragraph included in this section. Students enrolled in degree programs in another college who wish to take summer courses at USC as transients should seek written approval to take specific USC courses from a dean or department chair in their home college.

Admission of International Students
The University of South Carolina welcomes the applications of qualified international students. At least six months before the beginning of the semester they wish to enter, and in the case of freshman applicants, at least nine months beforehand, students must send a complete application, including standardized test scores, school records, and financial statements, to the Office of Undergraduate Admissions.

Students who have attended colleges or universities outside of the United States are required to submit a professional credential evaluation of all work completed.

International applicants must be proficient in the English language. A score of 550 or above on the paper version of the TOEFL (Test of English as a Foreign Language) is required. (A score of 210 or higher on the computerized version is required, and a minimum score of 77 on the Internet version is required.) The Office of Undergraduate Admissions also accepts the International English Language Testing System (IELTS) or the PTE Academic Test (PTE). Students must score at least a 6.5 on the IELTS, or at least a 53 on the PTE. English proficiency scores are not required for international students from countries where the primary language of instruction is English nor from graduates of high schools in the United States.

An English proficiency test will be administered to international students, except those from English-speaking countries, upon arrival at the University. All international students must demonstrate sufficient proficiency in written and oral English to progress at the University level. Students who are not proficient in English will be required to take noncredit, concentrated English language training until proficiency is demonstrated.

In addition, freshman applicants must have completed a level of education equivalent to that of students entering from accredited secondary schools in the United States and have superior grades on their school work. Applicants who seek to enter from another college or university in the United States must meet transfer admission requirements.

International applicants will not be allowed to enroll in classes until they establish their ability to pay education expenses. The policies of certain countries have created financial difficulties for their citizens studying at the University. Applicants from these countries will be so notified and required to make an advance deposit of expenses. Applicants from other nations must submit certification of financial support to satisfy this requirement. Some financial assistance from the University is available to qualified international students.
Applicants who are not citizens or permanent residents of the United States.

Placement Examinations

Student Orientation and Testing Programs

All new undergraduate students are expected to take placement tests (math and foreign language) and attend an orientation program (advisement and registration for classes) prior to their enrollment. Information on these programs may be obtained electronically at http://orientation.sc.edu or by calling 803-777-2780. Summer orientation days for parents, freshmen, and transfers are held in June and early July. Abbreviated orientations are also held immediately prior to classes beginning in August, January, and summer school. Optional programs include: Welcome Week, a fall, week-long schedule of events designed to ease the students’ transition to the University environment; and University 101, a semester-long, freshman seminar course offered for University credit.

Math and Foreign Language Placement Examinations

All students, both freshmen and transfers alike, must meet the prerequisites for any collegiate math courses that they take at the University of South Carolina.

For foundational math courses at the 100 level, these prerequisites can be met after taking one of two Math Placement Tests (Algebra and Precalculus, respectively) as described at this link (http://sc.edu/study/colleges_schools/artsandsciences/mathematics/study/math_placement/).

Likewise, all freshmen and transfer students must meet the prerequisite requirements for any foreign language courses they take at the University. These prerequisites can be met after taking the Foreign Language Placement Test. Students must take the level of course in which they have placed. For more information is available at this link (http://artsandsciences.sc.edu/language-placement/home/).

Candidates who do not pass a particular placement test are not permitted to repeat that test. The required credits must be obtained instead by enrollment and satisfactory completion of the course(s) involved. Specific information about placement test content and policies may be obtained from the appropriate department.

Exam Credit

Baccalaureate degree candidates may qualify for course credit through successful completion of select Advanced Placement (AP) Exams; International Baccalaureate (IB) Exams; College Level Examination Program (CLEP) Exams; Cambridge International A Level Exams; and Defense Activity for Non-Traditional Education Support (DANTES) Exams.

A complete listing of transferrable exam credit and minimum score thresholds can be found here (http://sc.edu/about/offices_and_divisions/registrar/transfer_credits/).

Official exam credit results must be submitted to the University of South Carolina directly from the exam provider.

Multiple successful exam credit scores submitted for the same equivalent course will only be recognized in one instance of the course on students’ official academic record at USC.

Exam credit will be transcribed to the academic record similar to a transfer course. Successful exam scores will be equated directly to courses in the USC course catalog or to subject codes which represent subjects not offered at USC. Exam credit course equivalencies will be posted to the record along with a grade of “CR” the attempted hours, and earned hours. The exam credit will appear on students’ advising transcript in Self Service Carolina, while only exam credit earned hours will appear on the official transcript.

Proof of Citizenship

USC students must present proof of citizenship or lawful presence in the U.S. before enrolling. This policy has been adopted by the University in order to comply with section 59-101-430 of the South Carolina Code of Laws, as amended, which requires that lawful presence in the United States is verified before enrollment at any public institution of higher education. Verification of immigration status for non-citizens will be conducted by International student officials. For other students, a proof of citizenship verification process has been adopted to deter and prevent false claims of citizenship by unlawful aliens attempting to evade the eligibility requirements of section 59-101-430. Students who are not verified as citizens during the Federal financial aid application (FAFSA) process must present proof of citizenship in the form of one of the following acceptable documents:

- Copy of the South Carolina driver’s license if the student first became a licensed driver in the state after January 1, 2002;
- A Certified Birth Certificate indicating that you were born in the United States or a territory of the United States.
- Current U.S. Passport or U.S. Passport that has not been expired more than 10 years;
- Certificate of Naturalization — USCIS Form (N-550 or N-570);
- U.S. government issued Consular Report of Birth Abroad;
- Certificate of Citizenship (N-560 or N-561);
- Unexpired U.S. Active Duty/Retiree/Reservist Military ID Card (DOD DD-2)

The University can accept photocopies of birth certificates and other citizenship documents so long as we reserve the right to demand production of the certified original in the event we have any questions about whether the copy is true and accurate, or in the event any of the information on the copy is unreadable.

For more information: http://registrar.sc.edu/html/citizenshipverification.stm

Behavioral/Criminal Infractions Policy

The University of South Carolina-Columbia expects students who join its community of scholars to uphold the tenets of the Carolinian Creed and to conduct themselves according to these standards. Therefore, all applicants for undergraduate admission must disclose any school behavioral, academic or criminal infraction charges occurring prior to their enrollment at the university. Questions pertaining to infractions will be asked on the application for admission. Applicants will be instructed to provide any updated information occurring after submission of the initial application for admission. The signature [or electronic signature] section of the application attests to the accuracy and completeness of all questions on the application. Failure to provide complete and correct information is grounds for immediate revocation of admission and cancellation of registration or enrollment at the University of South Carolina.

The questions dealing with infractions will direct the applicant to provide a written description of the infraction, appropriate date(s), and ultimate
resolution or current disposition. Applicants disclosing an infraction will be flagged in the admissions system to prevent any definitive admission decision until the infraction is reviewed and the student cleared for final action by the director of admissions.

Behavioral infractions are defined as disciplinary violations at an educational institution (including a college or university) resulting in sanctions including suspension or expulsion since the 9th grade. A designated member of the admissions staff will review the application to first determine academic admissibility. If the student is admissible, the staff member will review the infraction and follow up as necessary, including contacting the applicant’s previous educational institutions. The facts of the case will be documented and sent to the director of admissions who will make the final determination of admission.

Criminal infractions include misdemeanors, felonies or other crimes more serious than minor traffic violations (e.g. speeding, driving without a license, etc.). A designated member of the admissions staff will review the application to first determine academic admissibility. If admissible, the staff member will review the criminal infraction to determine the appropriate course of action. If upon investigation the staff member deems the offense to be minor the case may be documented and referred to the director of admissions for a final determination of admission.

If the infraction is more serious, in most instances the case will be sent to a special ad hoc committee1 for review and determination of eligibility for admission and enrollment. The committee will have access to all application materials and information regarding the infraction and may at their discretion request additional information from the applicant or appropriate authorities outside the university.

The committee will make a formal recommendation of action to the director of admissions. If the committee approves admission they may also note any special conditions of enrollment or eligibility for on campus housing and/or referral to the campus Judicial Affairs Committee. The final decision will be made by the director of admissions.

The director of admissions will notify the applicant of the final admission decision. If there are special circumstances or conditions on the applicant’s admission these will be communicated to the applicant. If the student is deemed as unfit for university enrollment this will be communicated.

The director of admissions will provide an annual written report to the University Admissions Committee regarding number of cases reviewed and final action in each infraction category.

1 The ad hoc committee may include representation from the following offices: Judicial Affairs, Faculty Senate Committee on Admissions, Housing/Student Affairs, Campus Safety and Counseling Center. The director of admissions or designee will be ex officio and provide staff support to the committee.

Undergraduate Academic Regulations

As the chief governing body of the University, the Board of Trustees delegates the powers of the president and the faculty in accord with its policies. Subject to the review of the president and the Board of Trustees, the faculty retains legislative powers in all matters pertaining to the standards of admission, registration, instruction, research, extracurricular activities, requirements for and granting of degrees, the curricula, the discipline of students, the educational policies and standards of the University, and all other matters affecting the conduct of academic affairs.

The University reserves the right to make changes in curricula, degree requirements, course offerings, and all academic regulations whenever, in the judgment of the faculty, the president, or the Board of Trustees, such changes are in the best interest of the students and the University.

Registration at the University of South Carolina assumes the students’ acceptance of all published regulations, including both those which appear in this document and all others as applicable in any official announcement such as the Medical School Bulletin, Law School Bulletin, Graduate Studies Bulletin, the University Master Schedule of Classes, or the Carolina Community. Official policies of the University listed below are published in the Carolina Community, which is available online as well as through the Student Government Office or the Office of the Vice President for Student Affairs.

1. Student Rights and Freedoms within the Academic Community
2. Rule of Academic Responsibility and Academic Disciplinary Procedures
3. Grievance Policy and Procedures for Non-Academic Areas
4. University Policy on Use of Alcohol
5. University Policy on Campus Solicitation
6. University Policy on Student patent and Copyright Matters
7. Student Right to Know

Unforeseen circumstances may interfere with the scheduling of a course or degree offering. Students must accept such developments even if doing so will mean a delay in some of their academic goals or a modification of those goals. The departments concerned will work closely with students facing such problems in an effort to resolve them with a minimum of difficulty.

The University reserves the right to withdraw any course because of inadequate enrollment. Additional courses may be offered upon application of a sufficient number of students; a minimum of 10 applicants is the usual requirement. Registration in any course may be closed when the maximum enrollment for efficient work has been reached.

Bulletin Rights and Exclusions

Bulletin Rights

An undergraduate student may choose to obtain a degree in accordance with the curricular requirements in force for the particular degree at the time the student first enrolls as a degree-seeking student at any University campus, or under subsequent requirements published while the student is enrolled.

Bulletin Exclusions

The student’s choice is restricted to a specific bulletin and the curricular requirements described therein. Undergraduate students have a period of eight years, inclusive and continuous, in which to claim the rights of a specific bulletin.

Within the eight-year limit, an undergraduate student who is absent from the University for no longer than three years, and who returns to complete the program of study, shall have the right to continue under the bulletin in effect at the time of the student’s original enrollment as a degree-seeking student. Alternatively, the student may elect the degree requirements under the bulletin in effect at the time of return. If the period of absence
is longer than three years, the student will be subject to the curricular requirements in force at the time of return. Under no circumstances will students be allowed to appeal to short-lived rules and regulations which were adopted and abandoned during the period of their absence.

If drastic revisions of curricula or program requirements have occurred during a student’s absence (even if for less than three years), or during the period between the student’s original enrollment as a degree-seeking student and the eventual movement to a different degree program or campus within the University, a reasonable effort will be made by the academic dean to permit the student to undertake a transitional program that is equivalent to the educational experience intended under the bulletin in force at the time of the student’s original enrollment as a degree-seeking student.

**Academic Calendar Policies**

**Academic Calendar**

The University follows an early Semester Calendar, with Fall semester beginning the Thursday of the third full week in August and ending in December before the winter break. Spring classes begin the second Monday of January, provided neither Monday is a holiday (New Years or MLK). For Fall and Spring semesters, there are 70 class days with a minimum of 2100 minutes of instruction for a standard 3 hour class—28 Tuesday and Thursday classes of 75 minutes per class meeting and 42 Monday, Wednesday, Friday classes of 50 minutes per class meeting. All nonstandard one or two day per week classes must meet the minutes of instruction requirements as part of the calendar.

**Summer Term**

The summer term consists of multiple course sessions between the spring and fall terms.

Students regularly enrolled in the University may take work applicable to their degree during the summer term. Regulations governing the regular academic year also pertain to the summer term.

A complete listing of all courses offered in the summer term will be available by April 1 on the registrar’s Web site under “Master Schedule.” Course sessions and times may vary.

Please refer to the registration calendars on the registrar’s Web site for more detailed information.

**Advisement Policies**

**Academic Advising**

When students are accepted into the University, they are assigned an academic advisor. Students are expected to arrange to meet with their advisor at least once a semester to plan their course of study for the following semester. Students who do not know their assigned advisor should obtain this information from the appropriate departmental or academic dean's office.

Information, advice, and interpretations of University policies offered by advisors do not supersede the official statement of policies and academic regulations described in the University Undergraduate Studies Bulletin. Exceptions to University regulations cannot be made by academic advisors. Any exceptions to the policies and regulations set forth in the University Undergraduate Studies Bulletin must be made by the appropriate College Scholastic Standards and Petitions Committee or by the dean of the college.

Records of academic progress may be kept by advisors and deans, but the only official student records are maintained by the Office of the University Registrar.

**Classification of Students**

Classification is based on the total number of semester credit hours earned: A student must have earned 30 hours to be classified as a sophomore, 60 for classification as a junior, and 90 for senior classification. Students are classified at the beginning of each semester and maintain that classification until the next semester begins.

**Undeclared Freshmen**

For various reasons it may be impossible or inappropriate for a student to declare a major. Nevertheless, all students will receive advisement in the college most closely related to their interests and abilities. Transient students are subject to the rules of their home institution and may take course work at the University of South Carolina without a declared major. University courses are open to those seeking career advancement or life enrichment and who meet stated course prerequisites. Freshmen who have been accepted by the University, but who are unsure of academic or career goals, may need a period in which to establish their major interest. To accommodate students in these categories, courses which are usually open to students with 30 or fewer hours (freshmen) are open to all students who meet prerequisites published in the University’s Undergraduate Studies Bulletin. Students who have earned 30 semester hours and wish to continue their studies at the University of South Carolina must declare a major in a program in which they meet entrance or progression requirements.

**Course of Studies**

Students are expected to follow the programs outlined by their school or college as closely as possible, particularly in the first two years when satisfying basic degree requirements and prerequisites for advanced work. Students must pursue required courses in the prescribed sequence. Failure to do so may lead to future schedule difficulties, and students may find that the subjects for which they wish to enroll are either not available or are closed to students with advanced standing. Students who fail to complete successfully all freshman requirements may not enroll in courses in their major field beyond the sophomore level. Students ineligible to continue courses in their major field may take electives until the deficiency is removed. Students who enroll in classes for which prerequisites or other defined requirements have not been met may be removed from these classes. Learning-disabled students who wish to take advantage of University-approved program accommodations must have an academic advisory plan on file with the Office of Student Disability Services and the dean of the college. This plan will be formulated by the student’s academic advisor with the assistance of the Office of Student Disability Services and will contain recommended accommodations which specifically relate to and are consistent with the student’s diagnosed disability. A copy of the student’s academic advisory plan must be provided to the course instructor for the student to be eligible for a particular accommodation. Any substitutions for degree requirements recommended in the student’s academic advisory plan must be referred to the Scholastic Standards and Petitions Committee of the student’s college for action.

**Changes in Curriculum**

Undergraduate students interested in changing majors should contact the college or school offering the new curriculum the student intends to follow. Once all necessary permissions are obtained, the college or school that offers the new curriculum will notify the Office of the
University Registrar to update the student's record. Curriculum changes can affect loan deferment, scholarship eligibility, athletic participation eligibility, tuition and fee assessment, and international student VISA regulations. For this reason, all curriculum changes must be completed before the end of the free drop/add period in Fall and Spring Terms (in Part of Term 30), and prior to June 1 during the Summer Term. Curriculum change requests that arrive at the Office of the University Registrar after these deadlines will be processed for the following term. Exceptions to this rule may be made in the event that a change request is being made in the semester that student is graduating from the University.

Course Substitutions

Only under unavoidable and exceptional circumstances will the faculty permit substitution for or exemption from the prescribed curricula. When it becomes necessary to request a deviation from the prescribed course of study, students should consult the dean of their college or the head of the department in which they are majoring before preparing a petition listing the substitutions or exemptions sought and the reasons for the request. Petitions are submitted on forms obtainable from the Scholastic Standards and Petitions Committee of the particular college, and must be returned to the dean of the college in which the student is enrolled. Deviations from degree requirements published in the bulletin must be approved by the student's dean and the head of the student's major department. The Scholastic Standards and Petitions Committee of each college functions as an appeal board in cases where agreement between the dean, department head, and the student cannot be reached.

Course and Academic Credit Policies

Course Numbering

Courses numbered from 101 to 699 are available at different levels for undergraduate credit. Courses numbered from 700 to 899 may be taken for graduate credit only and are described in the Graduate Studies Bulletin. All courses numbered from 101 to 499 are for four-year baccalaureate degree candidates. Courses numbered from 500 to 699 may be taken by advanced undergraduate and graduate students for undergraduate or graduate credit, respectively. A 500- to 600-level course taken for undergraduate credit cannot later be awarded graduate credit.

Course Credit

The credit value of each course is usually determined by the amount of formal instructional time per week for one semester. At least 700 minutes of instruction (and at least twice that for laboratory time) can be expected per credit hour. The semester hour credit for each course is included in each course description.

No student suspended from the University of South Carolina for any reason may earn academic credit during the period of suspension, whether by residence elsewhere or by correspondence courses of any origin.

Remedial courses (courses numbered 100 or below) may not be used to meet degree requirements.

Credit by Examination

Currently enrolled students may obtain credit by examination in a course in which they have had no class attendance or semester standing; permission must, however, be obtained from the dean of the college or department chair in which the course is offered. A grade of not less than B on the examination is necessary in order to receive credit for the course. Examinations are not permitted in courses in which a student previously has been enrolled regularly or as an auditor. The applicant must pay to the Office of Financial Services in advance of the examination a fee of $25 per semester hour; this fee is not refundable. The Office of Financial Services will issue a receipt which must be shown to the head of the department conducting the examination, who shall immediately report the results of the examination to the Office of the University Registrar. Credits earned under this regulation are recorded with hours earned only.

Transfer Credit

Students transferring to the University from another college or university must, before enrolling in class at the University, have their transcripts evaluated by the University. It is only in the light of such evaluation that students will know definitively the transferability and equivalency of each transfer course. Degree applicability will be determined by the college or school in which the student is enrolled.

Transferrability refers to the conditions under which the University accepts credit for inclusion in the student's record. Transfer courses must have been taken at a regionally accredited post - secondary institution, or, if taken at a foreign post-secondary institution, have been recommended by a NACES - member external evaluation service. Exceptions to this rule may be made by the Office of the Registrar when state scholarship eligibility rules require inclusion.

Equivalency entails equating transfer credit, both in hours and content, to University of South Carolina coursework. The Registrar's Office works with USC colleges and schools to coordinate the process of transfer evaluation to equate transfer courses directly to courses in the USC course catalog; to subject codes which represent subjects not offered at USC; or to subject codes that identify courses as remedial/technical/non-accredited coursework. A list of transfer equivalencies for the Columbia catalog of courses can be found at: http://www.sc.edu/about/offices_and_divisions/registrar/transfer_credits/course_equivalency.php

Applicability of credit toward a degree refers to the prerogative of academic divisions to count specific credit toward the fulfillment of a student's degree requirements. The student's college or school of enrollment is responsible for determining applicability.

However, a transfer course is not applicable towards any University of South Carolina academic program or degree if:

1. The transfer course was essentially remedial in nature (example: Developmental English).
2. The transfer course was occupational or technical in nature (examples: welding, paralegal, or radiography courses).
3. A grade lower than 2.0 on a 4 point scale, or equivalent, was earned in the transfer course.
4. The transfer course was taken by a degree-seeking University of South Carolina student without prior approval as described in the Earning Credit in Transient Status section of this bulletin.
5. The transfer course was taken while a student was on an academic suspension from the university.
6. The student received any grade other than W in an equivalent course at this university, unless the student was enrolled full time at least one year at the transfer institution.

Exceptions to the rules of applicability may be made only by petition to the dean for undergraduate studies of the College or School in which the student is majoring.

Effective Summer 2017 for all newly admitted and readmitted students, transfer grade points and GPAs will no longer appear on the
USC record. Transfer course equivalencies, grades, attempted hours, and earned hours will appear on students’ advising transcript in Self Service Carolina, while only transfer earned hours will appear on the official transcript.

**Earning Credit in Transient Status**

Since the University is accountable for the integrity of its degrees, it is essential that degree programs be closely monitored by University faculty. Therefore, students entering the University to seek a degree should expect to complete the majority of their academic work at the University of South Carolina. Normally students who wish to earn more than a semester of credit at another institution should meet all requirements and transfer to that institution. In some programs, and with the permission of the academic dean, students may take up to 18 semester hours of courses in transient status provided they have a 2.00 USC grade point average; the courses are approved in advance by the academic advisor and dean; and the other institution is fully accredited and the course work meets University specifications for transfer credits.

Study abroad or in special academic programs within the United States may be of particular benefit to students, and the University cooperates in a variety of national and international exchange programs in which students may pursue up to a year of academic work at another institution. Special permission is granted to students in these programs with the advance approval of the academic advisor and dean.

**Course Load**

Maximum credit limits, published in the Master Schedule of Classes, also vary according to college policy. Students will not be permitted to register for a semester load in excess of that prescribed for their program of study unless they earned an average of B or better on all courses for which they were enrolled (minimum 12 semester hours) for the preceding semester. New students are eligible for an extra course if they submit to the academic dean satisfactory evidence of equivalent academic achievement. Students eligible for an additional course on this basis must obtain prior approval for each course addition from the dean of their college. No course may be added after the last date to change course schedule or drop without a grade of W being recorded, as published in the academic and refund calendars on the registrar’s Web site. (Note: This regulation does not apply to aerospace studies, Army or naval science courses, which may be added to a course program during the regular registration period without special approval.)

Undergraduate students who are enrolled in 12 semester hours or more for the fall, spring, or summer semester are considered full-time for academic purposes. Students who have been verified as learning disabled by the Office of Student Disability Services must be enrolled in 9 semester hours or more for the fall, spring or summer semesters to be considered full-time students with regard to access to University residence halls and eligibility for financial aid, provided this is consistent with their academic advisory plan.

Graduate students who are enrolled in 9 semester hours or more for the fall, spring, or summer semester are considered full time for academic purposes.

Full-time fees for undergraduate students are calculated on 12 to 16 semester hours. Full-time status for graduate students with assistantships is determined by the dean of Graduate Studies.

Full-time benefits for veterans are determined by the Office of Veterans Services.

**Auditing**

A student must be admitted to the University and go through the regular registration process to be eligible for auditing any course. All auditors must be admitted to the University and go through the regular registration process. Those who are not full-time students will be charged the same fees as for courses taken for academic credit.

Auditing a course consists of attending classes and listening without responsibility for any assignments or examinations. An auditor is not responsible for any assignments or examinations. No record of audit shall appear on a transcript unless a student attends 75 percent of the classes.

No credit may be earned in an audited course by examination or otherwise. No audited course may be repeated for credit at a later date except by those students who have been verified as learning disabled by the Office of Student Disability Services and whose academic advisory plan recommends auditing a specific course before it is taken for credit.

The applicant must complete the prescribed procedure for enrollment through the Office of the University Registrar before class attendance will be permitted.

Students who have registered for a course on an audit basis and who wish to change their registration to take the course for credit (or who wish to change from credit to audit) must do so no later than the last day to change course schedule or drop without a grade of W being recorded, as published in the academic and refund calendars on the registrar’s Web site.

**Independent Study**

The purpose of the independent study option is to allow the student to pursue an area of academic interest not adequately covered by the regular course structure. The experience shall involve an academic product that is consistent with the student’s program of study.

Prior to enrolling in an undergraduate independent study course, a student must complete an Independent Study Contract (AS-6). The approval of the instructor, advisor, department chair, and student’s dean is required. Students then present their approved copy to the Office of the University Registrar before registering for the course. Only students who take independent study as part of their major or minor or cognate program may receive grade-point credit for independent study. All other students will receive Pass-Fail credit. Students who take independent study on a Pass-Fail basis cannot later receive grade points, even if the student transfers to another major, minor, or cognate otherwise qualifying the course work as appropriate for grade points. This ruling is not reversible by petition.

A grade point average of 2.50 or greater is required to enroll in independent study courses. The amount of credit for independent study per semester is limited to 6 hours. Independent study credits applied toward any undergraduate degree may account for no more than 10 percent of the total required credit hours for that degree.

**Repetition of Course Work**

When a course is repeated, both grades will be entered on the student’s permanent academic record and included in the grade point average, unless the grade forgiveness policy is applied. Course credit toward graduation will be given only once, unless otherwise stipulated in the course description. Many academic programs restrict the number of
times a course may be repeated. Consult the college and department section of the bulletin for such restrictions.

**International Courses (INTL) / Study Abroad**
- 501 — Study Abroad—USC Exchange. (1-16) This course keeps a USC student active while on a pre-approved USC exchange program.
- 502 — Study Abroad—Non-USC Program. (1-16) This course keeps a USC student active while on a pre-approved non-USC study abroad program.
- 503 — Study Abroad—Through Another U.S. Institution. (1-16) This course keeps a USC student active while on a pre-approved non-USC study abroad program through another U.S. institution of higher education.

**Senior Privilege - Enrollment in Graduate Courses**
A special provision to earn graduate credit is available for USC undergraduate seniors in their final semester who need less than a normal course load to complete baccalaureate requirements. Overload enrollment that includes one or more courses under senior privilege is not allowed. Courses for graduate credit under senior privilege cannot be used toward undergraduate degree requirements. For senior privilege consideration, undergraduate seniors with a 3.00 GPA should submit to the Graduate School, for the graduate dean’s approval, form GS19 endorsed by the student’s advisor, the chair of the department offering the course, and the academic dean for that department. This action should be taken before registration.

**Accelerated Degree Programs**
Certain academic units offer accelerated programs whereby an undergraduate student with a GPA of 3.40 and 90 or more hours toward the baccalaureate degree may apply graduate credits to a baccalaureate program. Admission can be requested by students in consultation with their academic advisor, their undergraduate dean, and the graduate director of the proposed master’s program. An application form and associated guidelines may be obtained from The Graduate School.

Several of the University’s colleges and schools are involved with a variety of accelerated degree programs. For more information, contact:

Office of Undergraduate Admissions
USC
Columbia, SC 29208
phone 803-777-7700

**Registration Policies**

**Registration**
To be officially enrolled in the University students must be academically eligible, complete the registration process with the Office of the University Registrar, and possess a receipt issued by the Office of Financial Services for payment of current academic fees.

Students are expected to complete registration (including the payment of all required fees) by the dates prescribed in the registration calendars on the registrar’s Web site to avoid cancellation of classes and payment of a late registration fee of $5 per day ($350 maximum).

**Changes in Enrollment**
Adding a course, changing from credit to audit or audit to credit, changing from one section to another, and changing the number of credits in any variable credit course must be completed by the last day to change course schedule or drop without a grade of W being recorded, as published in the academic and refund calendars on the registrar’s Web site. Electing or revoking the Pass-Fail option must be completed no later than the last day for dropping a course with a grade of W, as published in the academic and refund calendars on the registrar’s Web site.

**Dropping Courses and Withdrawal**

**Free Drop/Add Period**
During the Free Drop/Add period, undergraduate students have the ability to add and remove courses from their schedule through Self Service Carolina. For each course, the Free Drop/Add period begins during the official first day of the course and extends to a minimum of 6% of the Part of Term in which the course is scheduled. Courses removed during the Free Drop/Add period will not be recorded on a student’s transcript. Details regarding Free Drop/Add dates can be found on the Self Service Carolina log-in page under the “Academics” sections. http://my.sc.edu/codes/

Students are prevented from dropping or adding courses during the Free Drop/Add Period if they have an active registration hold on their record.

**Course Withdrawal Period**
During the Withdrawal Period, undergraduate students have the ability to withdraw from a course with no grade penalty through Self Service Carolina. For each course, the Withdrawal Period begins after the Free Drop/Add Period and extends to a minimum of 72% of the Part of Term in which the course is scheduled. Courses from which a student withdraws during this period are recorded on a student’s transcript as a W; however, the semester hours will not be calculated in the computation of grade point average, count towards earned hours, or count towards graded hours. Courses that have a recorded grade of W will count towards attempted hours. Details regarding course Withdrawal dates can be found on the Self Service Carolina log-in page under the “Academics” sections. https://my.sc.edu/codes/

Students are prevented from withdrawing from courses during the Withdrawal Period if they have an active registration hold on their record.

**Course Withdrawal Fail Period**
During the Withdrawal Fail Period, undergraduate students have the ability to withdraw from a course with a penalty grade through Self Service Carolina. For each course, the Withdrawal Fail Period begins after the Withdrawal Period and extends up to 100% of the Part of Term in which the course is scheduled. Courses from which a student withdraws with a grade of WF during this period are treated as an F in the evaluation of academic standing, computation of grade point average, and graded hours. Details regarding course Withdrawal Fail dates can be found on the Self Service Carolina log-in page under the “Academics” sections. http://my.sc.edu/codes/

Students are prevented from withdrawing from courses during the Withdrawal Fail Period if they have an active registration hold on their record.
Hardship Withdrawal
During and after the Withdrawal Fail Period, it may be necessary for a student to withdraw from all courses for the semester due to a significant personal hardship (e.g., medical or family emergency, prolonged illness, other medical or traumatic event). In these situations, students are able to petition for a Hardship Withdrawal from courses through the Office of the Dean of Students or the Hardship Withdrawal Committee. Each Palmetto College Campus has an equivalent hardship withdrawal process for managing petitions from students enrolled on their campus.

Hardship Withdrawal petitions, including verified documentation of hardship, submitted during the Withdrawal Fail Period until the last day of courses for the semester will be reviewed by the Office of the Dean of Students. Approved petitions will be submitted to the Office of the Registrar for grade assignments of W for all courses that semester on the student's transcript.

The Office of the Dean of Students will notify the student's instructors and their home college of the withdrawal.

Hardship Withdrawal petitions, including verified documentation of hardship, submitted after the last day of courses for the semester will be reviewed by the Hardship Withdrawal Committee that must include faculty and college/school representation. Approved petitions will be submitted to the Office of the Registrar for grade assignments of W for all courses that semester on the student's transcript.

Prior to a Hardship Withdrawal decision being made, all documentation is subject to verification by the Office of the Dean of Students and/or the Hardship Withdrawal Committee, including but not limited to class attendance, class participation, or supporting documentation. If false documentation or misrepresented information is submitted, students will be referred for alleged violation of the USC Honor Code and the Hardship Withdrawal request will be denied.

A Hardship Withdrawal to selectively withdraw from some courses, while remaining enrolled in other courses, will be permitted only under exceptional circumstances and must be approved by the Office of the Dean of Students in consultation with appropriate colleges/schools. The Office of the Dean of Students will submit a report of selective withdrawal decisions for verification to the Hardship Withdrawal Committee at the end of each semester.

Information regarding the University's Withdrawal Refund Appeals procedures can be found in the Fees and Refunds section of the bulletin.

Title IX Obligations
Information contained in Hardship Withdrawal petitions is private and not shared with instructors, departments, or colleges/schools outside of the Hardship Withdrawal Committee. However, in accordance with the provisions of Title IX of the Education Amendments Act of 1972 and University policy, if sexual misconduct information is included in a student's petition, the Office of the Dean of Students and/or the Hardship Withdrawal Committee is obligated to report the matter to USC's Title IX coordinator.

 Withdrawing via Self-Service Carolina
Students can withdraw for the semester by withdrawing from all courses on Self Service Carolina. Students are encouraged to consider the Hardship Withdrawal Process if they are withdrawing during the Withdrawal Fail Period.

Active Duty Military Withdrawal
Students in the National Guard or armed forces reserves who are placed on active duty by order of the president of the United States or the governor of their state should pursue withdrawal from courses according to the provisions of the University's policy titled "Withdrawal of Students Called to Active Military Service" (ACAF 3.05). Active duty military personnel who are reassigned during an academic term may also invoke the provisions of this policy. http://www.sc.edu/policies/ppm/acaf305.pdf

Course Drop and Withdrawal Chart

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<thead>
<tr>
<th>Name</th>
<th>Minimum Percentage of Class Time</th>
<th>Grade</th>
<th>Considerations</th>
</tr>
</thead>
</table>
| Free Drop/Add Period         | 0-6% of classes                  | W grade will be recorded on transcript. W grade is not calculated in GPA. | • Financial Aid
|                              |                                  |                        | • Enrollment status                               |
|                              |                                  |                        | • Housing                                         |
| Withdrawal Period            | 7-72% of classes                 | W grade will be recorded on transcript. WF grade is calculated as an F in GPA. | • Financial Aid
|                              |                                  |                        | • Progression towards degree                      |
| Withdrawal Fail Period       | 73-100% of classes               | WF grade will be recorded on transcript. WF grade is calculated as an F in GPA. | • Financial Aid
|                              |                                  |                        | • Progression towards degree                      |
|                              |                                  |                        | • Satisfactory Academic Progress                  |
| Hardship Withdrawal Period  | 73-100% of classes               | W grades will be recorded for all courses for approved petitions. Petitions are subject to review by the Office of the Dean of Students | • Financial Aid
|                              |                                  |                        | • Refund Appeals Process                           |
|                              | After 100% of classes             | W grades will be recorded for all courses for approved petitions. Petitions are subject to review by the Hardship Withdrawal Committee | Financial Aid

Indebtedness
It is expected that students will discharge any indebtedness to the University as quickly as possible. No diploma, certificate, enrollment verification, or transcript will be issued to or for students who have not
made satisfactory settlement with the Office of Financial Services for all of their indebtedness to the University.

**Attendance Policy**

**Class Attendance**

Students are obligated to complete all assigned work promptly, to attend class regularly, and to participate in whatever class discussion may occur.

Absence from more than 10 percent of the scheduled class sessions, whether excused or unexcused, is excessive and the instructor may choose to exact a grade penalty for such absences. It is of particular importance that a student who anticipates absences in excess of 10 percent of the scheduled class sessions receives prior approval from the instructor before the last day to change schedule as published in the academic and refund calendars on the registrar's Web site (http://registrar.sc.edu/).

It must be emphasized that the “10 percent rule” stated above applies to both excused and unexcused absences. Faculty members should notify classes, specifically in the course syllabi, of the attendance policy which they intend to follow in each class, but it cannot be more restrictive than the “10 percent rule”. It is also recommended that the faculty include a policy statement in their syllabi requesting students to meet with the instructor early in the semester to discuss the consequences of potential excessive absences due to participation in University-sponsored events.

Faculty should consider the following events or circumstances as potentially excusable absences:

- participation in an authorized University activity (such as musical performances, academic competitions, or varsity athletic events in which the student plays a formal role in a University sanctioned event)
- required participation in military duties
- mandatory admission interviews for professional or graduate school which cannot be rescheduled
- participation in legal proceedings or administrative duties that require a student's presence
- death or major illness in a student's immediate family
- illness of a dependent family member
- religious holy day if listed on http://www.interfaithcalendar.org
- illness that is too severe or contagious for the student to attend class
- weather-related emergencies

The Student Ombudsperson in the Division of Student Affairs is available to assist faculty members with obtaining or verifying documentation when necessary. The faculty member has complete discretion regarding the specific nature of any accommodation offered in the event of an excused absence. Students should notify faculty members at least two weeks prior to the absence when possible. In all cases, students must contact the faculty member to request an accommodation upon return to class.

**Examination Policies**

**Final Examinations**

Final examinations for spring and fall semesters are held during a seven-day period at the close of each semester. Summer examinations are held during a two-day period at the close of each session. Semester examination schedules are published on the registrar’s Web site under the “Calendar” link. The results of these examinations, combined with the grades for class performance, determine the reports given at the end of the semester. No final examination may be held outside of the stated time without the special permission of the dean of the college concerned. Reading Day is specified in the University calendar and no exams, quizzes or required class attendance may be scheduled for that day.

In any course or laboratory which meets two or three times per week, no quiz, test, or examination may be given during the last two class meetings prior to the regularly scheduled examination period. In any course or laboratory which meets once a week, no quiz, test, or examination may be given during the last class meeting prior to the regular examination period. In any course or laboratory which meets more than three times per week, no quiz, test, or examination may be given during the last three class meetings prior to the regular examination period. Self-paced courses are exempt from this regulation.

If an instructor teaches more than one section of the same course, students may transfer from one examination section to another with the instructor's permission.

Students who are absent from any final examination will be given the grade of F on the course if they have not offered an excuse acceptable to the instructor. If excused, they will be assigned a grade of I (see “I” entry under “Grading System”), and may complete the course under the conditions specified by the instructor in the “Assignment of Incomplete Grade” form.

Re-examinations for the purpose of removing an F or raising a grade are not permitted.

**Graduating Seniors**

No early examinations are given for graduating seniors. Students who have submitted a degree application may attend the graduation ceremony. Diplomas are mailed after final examinations and after a student's dean has verified that all degree requirements have been met.

**Deferred Examinations**

A student with excused absences from final examinations in one semester has the privilege of deferred or special examinations and may take the deferred examination at the next regular examination period, with credit for semester standing, provided the examination is taken at the convenience of the professor. The examination must be taken within one calendar year from the time that the absence was incurred. Deferred examinations will be granted only in case of absence certified as unavoidable because of sickness or other cause, rendering attendance at final examinations impossible.

**Grading Policies**

**Grading System**

Enrollment in a course obligates the student not only for prompt completion of all work assigned but also for punctual and regular attendance and for participation in whatever class discussion may occur. It is the student's responsibility to keep informed concerning all assignments made. Absences, whether excused or unexcused, do not absolve the student from this responsibility.

Students' grades in their courses are determined by class standing and examination grade, combined in such proportion as the professor may decide.
Class standing is determined by the quality of a student’s work and the regularity of attendance in lectures and laboratory sessions or other exercises of the course. Grading systems in graduate and professional schools are described in the appropriate bulletins.

A, B, C, D represent passing grades in order from highest to lowest. B+, C+, D+ may also be recorded. F represents failing performance.

S and U indicate, respectively, satisfactory (passing) and unsatisfactory (failing) performance in courses carried under the Pass-Fail option. The S/U designation is used also for some research courses, workshops, and seminars in which the regular academic grades are not used. The use of the Pass-Fail grading option in such courses is indicated in their bulletin descriptions. No course carried under the Pass-Fail option will affect a student’s grade point average or the evaluation of suspension conditions.

FN (Failure-Non Attendance) and UN (Unsatisfactory-Non Attendance) grades are assigned to students who never attended or have stopped attending class but have not officially dropped or withdrawn. Faculty are required to provide a last date of attendance when assigning this grade. The grade and the last date of attendance are used in determining the recalculation of awarded funds for financial aid recipients. Reporting the last date of attendance is critical to avoid potential financial liability for the institution.

FN and UN grades are displayed and calculated as F and U grades on the official transcript.

WF is assigned for student withdrawal from a course after the penalty deadline prescribed in the academic and refund calendars on the registrar’s Web site. (See section on “Dropping A Course.”) The grade of WF is treated as an F in the evaluation of suspension conditions and grade point average computation.

W is assigned for student withdrawal from a course after the late registration period but before the penalty date. Courses dropped during the late registration period (as published in the academic and refund calendars on the registrar’s Web site) will not be recorded on a student’s permanent record. In exceptional cases, the grade W will be used after the first seven weeks of a semester, primarily in cases of withdrawal from the University or from a course for medical reasons. (See section on “Dropping A Course.”) A grade of W will not enter into the evaluation of suspension conditions or in grade point average computation.

I, Incomplete, is assigned at the discretion of the instructor when, in the instructor’s judgment, a student is unable to complete some portion of the assigned work in a course because of an unanticipated illness, accident, work-related responsibility, family hardship, or verified learning disability. The grade of I is not intended to give students additional time to complete course assignments unless there is some indication that the specified condition or event prevented the student from completing course assignments on time. By arrangement with the instructor, the student will have up to 12 months in which to complete the work before a permanent grade is recorded. Re-enrolling in the course will not make up an Incomplete. An Assignment of Incomplete Grade form (AS-5) must be completed by the instructor and submitted to the Office of the University Registrar explaining the reason for the I and conditions for make-up. A grade of I is not computed in calculating a student’s grade point average. After 12 months an I that has not been made up is changed to a grade of F or to the back-up grade indicated by the faculty member on the Assignment of Incomplete Grade form.

A suspended student will have up to 12 months in which to complete the work before a permanent record is assigned for student withdrawal from a course after the deadline prescribed in the academic and refund calendars on the registrar’s Web site. (See section on “Dropping A Course.”) The grade of F will be assigned. The grade of I cannot be assigned in courses numbered 799 and 899.

AUD indicates a course was carried on an audit basis. (See section on “Auditing” for more information.)

NR, No Record, is assigned in the event that the grade is not available at the time final grades are submitted. It is a temporary mark on the transcript and must be replaced by a grade. If replacement does not occur before the last week of the spring or fall semester following the term for which the grade was recorded, a grade of F will be assigned. The NR is ignored in computing the GPA.

Academic Honor Code Violation

A transcript notation on the graded course in which the violation occurred denotes “Honor Code Violation.”

Pass-Fail Grading

The Pass-Fail program is designed to encourage students to investigate fields outside of their major curriculum in which they have a specific personal interest without affecting their grade point average. The only grades assigned on courses taken under the Pass-Fail option are S and U; a grade of S indicates satisfactory performance, a grade of U indicates unsatisfactory progress. A student will be given credit for courses in which the grade of S is earned, but these courses will not affect the computation of the grade point average.

Specific provisions of the Pass-Fail program are as follows:

1. The Pass-Fail grading system is in effect for an indefinite period of time, subject to periodic review.
2. The Pass-Fail option is not available to undergraduate students whose semester or cumulative GPA is less than 2.00.
3. Students are permitted to exercise the Pass-Fail option only on free elective courses.
4. Students are permitted to take no more than eight courses on a Pass-Fail basis during their undergraduate career.
5. A student wishing to exercise the option must have the permission of the dean of the college and the student’s academic advisor. The Pass-Fail Option form (AS-20) is used for this purpose.
6. The option may be elected or revoked by the student no later than the last date for withdrawing from the course without a penalty.
7. Normal prerequisites may be waived for students taking a course on a Pass-Fail basis.
8. Courses taken under this option will be excluded from the calculation of the grade point average.
9. A grade of S will be entered by the Office of the University Registrar for a regularly assigned passing grade; a failing grade will be registered as U.
10. No course carried on a Pass-Fail basis will be counted toward the hours required for either the President’s or the Dean’s Honor List.
11. A verified learning-disabled student may take on a Pass-Fail basis an elective or required course which is not in the major if the academic advisory plan so recommends the Pass-Fail option for that course. A student who desires use of this option must apply to the dean of the college at the beginning of the semester. With the approval of the
across academic dean, learning-disabled students may meet specific degree requirements with a satisfactory grade.

**Spring 2020 Undergraduate Pass-Fail Grading**

*Approved by the UofSC Faculty Senate on April 1, 2020*

To address complications presented by the COVID19 pandemic, the Faculty Senate Steering Committee approved the following grading accommodations for undergraduate students enrolled in Spring 2020.

- All courses will be graded as originally planned according to grading criteria in course syllabi. After grades are submitted at the end of the semester, undergraduates can choose, on a course-by-course basis, to request a pass/fail grade for the Spring 2020 semester with the exception of Graduate or professional school courses, which can be taken as pass/fail only when deemed appropriate by the program or school Dean.
- The following pass/fail scale will be used: Earned grades of A, B+, B, C+, C, B-, D+, D, and F will be replaced with S+, S, and U, respectively. Earned grades of S+ is earned for grades above A, S is earned for grades above B, S is earned for grades above C, and S is earned for grades below D.
- If students select the S+/S/U grading scale for a course, points will not be factored into the GPA. Courses with S+ and S will count towards earned semester hours.
- courses graded with the S+/S/U scale, under this exception for spring 2020, will count towards applicable curricular major, continuation, and graduation requirements. For example, if a course requires a C or better in a prerequisite, students selecting this alternative grading scale would need an S+ in the prerequisite course.
- Faculty members will not be aware of students who select the pass/fail grading option when entering final grades. Grades will be entered in the format for which the course was approved.
- Students who previously decided to take a course on a pass/fail basis will continue on a pass/fail basis using the University's established S/U system (e.g., S is earned if the grade is D or above and U is earned for grades below D).
- For the Spring 2020 semester, undergraduate students who choose to replace a course letter grade with the S+/S/U option must do so no later than July 1, 2020.
- This process will occur through the Office of the University Registrar. A form will be available on the University Registrar website for the student to request that a letter grade be replaced with the S+/S/U scale.
- UofSC will include a transcript note on all academic records, regardless of grading basis, indicating the extraordinary circumstances of the global public health emergency during Spring 2020.
- Because some graduate and professional programs require letter grades to be reflected on transcripts, when necessary, students will be able to request an official letter attesting to the letter grade earned in any classes that were converted to S+/S/U. This letter would attest only to grades, not to GPA. We will ensure that those who need evidence of your academic achievement this spring will be able to get it. A form will be available on the University’s website for students to request these letters.
- Students will be allowed to retake undergraduate courses in which they earned an S+, S, or U during Spring 2020. Any undergraduate courses retaken under this provision will not count towards the number of courses currently allowed by the current course grade forgiveness policy. In addition, students who were retaking a class for grade forgiveness in Spring 2020 can retake the class another semester, without penalty.

### Grade Point Average

The grade point average is computed on the basis of all semester hours attempted for credit, except for credit hours carried under the Pass-Fail or audit options. Courses in which a grade of S, U, AUD, T, or W was earned are not considered in computing the GPA.

The grade points earned in any course carried with a passing grade (A, B+, B, C+, C, D+, D) are computed by multiplying the number of semester hour credits assigned to the course by a factor determined by the grade. For courses in which the grade of A was earned, the factor is 4; for B+, 3.5; for B, 3; for C+, 2.5; for C, 2; for D+, 1.5; for D, 1. The grade point average is determined by dividing the total number of semester grade points earned by the total number of semester hours attempted for credit (excepting hours carried on a Pass-Fail or audit basis). No grade points are assigned to the symbols F, S, U, WF, I, AUD, T, or NR.

### Course Grade Forgiveness

It is the policy of the University of South Carolina that every currently enrolled, fully admitted, degree-seeking undergraduate earning a D+, D, F, or WF in a University course may take up to two undergraduate courses for a second time for the purpose of grade forgiveness. Both the first and second grades shall appear on the University permanent record, but only the second grade will be used in computing the University of South Carolina cumulative grade point average. An explanatory notice will appear on the record. Once grade forgiveness is applied to a repeated course, the action may not be revoked.

An eligible student wishing to apply the course grade forgiveness policy to a course enrollment may do so at any time during his/her undergraduate enrollment, but no applications will be honored after the degree is awarded. Grade forgiveness can only be applied once per course for a maximum of two courses (not to exceed 8 credits) on a student’s undergraduate academic record, without regard to the number of degrees sought. Under the grade forgiveness policy, the forgiven and repeated class must be taken at the University of South Carolina–Columbia campus or a Regional campus. Courses transferred from other institutions are excluded from this policy.

This policy does not preclude students from repeating classes multiple times, in accordance with program requirements, but only the second attempt at the class may forgive the original grade of D+, D, F, or WF. Only a regular letter grade can replace a forgiven grade. Grades of W, I, S, U, or AUDIT may not replace previous grades. Grades carrying an honor code violation sanction of X are not eligible for grade forgiveness.

Established requirements for repeating classes, admission to, or progression in, specific academic programs of the University take precedence over the grade forgiveness policy. Program or progression grade point averages are not affected by this policy. Refer to the guidelines for each program for specific requirements. Courses intended to be repeated for additional credit, such as research or applied music, are not eligible for grade forgiveness. Semester honors (dean’s or president’s honor list), or academic standing (scholastic deficiency, probation, suspension), or previous grade point totals will not change retroactively as a result of applying this policy.

Students who have been granted academic forgiveness to reset the grade point average after readmission are not eligible for course grade
forgiveness. Please refer to the bulletin entry titled Academic Forgiveness for Former USC Students with Less Than a 2.00 Cumulative GPA.

An eligible student wishing to apply the grade forgiveness policy may begin the process by reading the criteria which must be met and completing the necessary documentation in order to apply grade forgiveness. The criteria and documentation can be found at http://www.sc.edu/about/offices_and_divisions/registrar/transcripts_and_records/grade_forgiveness/index.php (http://www.sc.edu/about/offices_and_divisions/registrar/transcripts_and_records/grade_forgiveness/).

Note that Academic Forgiveness is not the same as Grade Forgiveness. Please refer to the bulletin entry titled Academic Forgiveness for Former USC Students with Less Than a 2.00 Cumulative GPA.

**Grade Reports**

Students’ grades are reported on Self Service Carolina. Students can also access grade reports in person at the Office of the University Registrar.

**Grade Change Policy**

Grade changes based on transcription or computation errors shall be reported directly to the Office of the University Registrar on the appropriate grade change form signed by the instructor and the head of the student’s academic unit. Any request for a grade change must be submitted by the instructor no later than one calendar year from the date on which the grade was reported. Beyond this period, grade changes will be considered only in exceptional circumstances and must be handled through the petition procedure of the student’s college. Any other grade change request resulting from enrollment discrepancies, medical withdrawals, or perceived administrative errors (changes to W, WF, audit, credit, S/U, or to I) must be submitted on the appropriate forms with signatures and documentation to the dean of the student’s college for review through the petition procedure. This does not apply to the routine makeup and extension of an I (incomplete) and posting of a permanent grade to replace the recorded NR mark. An I turns into a grade of F after one year; an NR turns into a grade of F after one semester.

Special makeup work or examinations to change grades already recorded are not permitted.

**Academic Standards Policies**

**Academic Standards**

The following standards for continuing at the Columbia and regional campuses of the University of South Carolina apply to all undergraduate students who first enroll at the Columbia and regional campuses of the University in the fall 2008 semester or thereafter, are admitted to the Columbia and regional campuses of the University in an undergraduate degree program in the fall 2008 or thereafter, or are enrolled in the fall 2010 semester or thereafter, regardless of when first enrolled at the University. Administration of these regulations is the responsibility of the academic deans, who are not empowered to waive any of the provisions.

**Academic Review**

The record of every undergraduate student will be reviewed at the end of each fall and spring semester. Many of the individual colleges of the University have higher academic requirements for students to continue in their degree programs. However, no student will be suspended academically from the University unless he/she fails to meet the standards specified here.

**Academic Standing**

A student’s academic standing is based on his/her “Total Institutional GPA” and “Total Institutional GPA Hours” which can be viewed in Self Service Carolina at the end of a student’s “Unofficial Academic Transcript” under the heading, “Transcript Totals (Undergraduate).”

**Academic Probation**

When a student’s Total Institutional GPA at the end of any semester is less than a 2.00, he or she is placed on academic probation.

**First-Year Freshmen Academic Recovery Program**

First-year freshmen who have less than a 2.00 Total Institutional GPA at the end of their first semester of collegiate enrollment are considered at risk. During the first six weeks of their second semester, these students must participate in an academic coaching session before being eligible to register for courses for the third semester. These sessions will provide students with assistance in academic planning, general advisement, major exploration, degree audit, self-assessments, and success strategies. This requirement is in addition to any made by the student’s college, school, or academic program.

**Removal from Academic Probation**

When a student’s Total Institutional GPA at the end of any semester is a 2.00 or above, he or she is not on academic probation.

**Continuing on Academic Probation**

Any student who is on probation at the beginning of a fall or spring semester must achieve a certain Total Institutional GPA at the end of that semester in order to avoid suspension. A student may also continue on probation and avoid suspension if the semester grade point average is 2.50 or greater. Standards for continuing on probation are based on the cumulative grade hours the student has attempted at USC. The chart below shows the grade point averages required in order to avoid suspension.

**Probation Chart**

<table>
<thead>
<tr>
<th>Total Institutional GPA Hours</th>
<th>Placed on Probation</th>
<th>Continue on Probation (avoid suspension)</th>
<th>Removed from Probation</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-35</td>
<td>below 2.00 Total Institutional GPA</td>
<td>1.500 or higher Total Institutional GPA</td>
<td>2.00 or higher Total Institutional GPA</td>
</tr>
<tr>
<td>36-71</td>
<td>below 2.00 Total Institutional GPA</td>
<td>1.800 or higher Total Institutional GPA</td>
<td>2.00 or higher Total Institutional GPA</td>
</tr>
<tr>
<td>72+</td>
<td>below 2.00 Total Institutional GPA</td>
<td>only with semester reprieve (see below) or by college petition</td>
<td>2.00 or higher Total Institutional GPA</td>
</tr>
</tbody>
</table>

Semester Reprieve: Regardless of the Total Institutional GPA, a student may continue on probation and avoid suspension if the Current Term grade point average is 2.50 or greater.

**First Suspension**

Students unable to meet the standards shown above are suspended from the University of South Carolina for one fall or spring semester and the contiguous summer (approximately eight months). Students have the right to appeal their suspension to the petitions committee of the college or school in which they were enrolled when suspended.
Returning After First Suspension
After the suspension has been served, a student will be considered for readmission by the college or school to which the student is seeking admission. A student readmitted following suspension continues on probation and is reviewed for suspension at the end of each fall and spring semester. A Current Term grade point average of 2.50 or higher must be achieved each semester until the Total Institutional GPA reaches the level above which suspension would occur (see chart).

During the first six weeks after returning from a first suspension, students must participate in an academic coaching session before being eligible to register for courses for the following semester. These sessions will provide students with the resources they need to meet their academic goals.

Returning after Subsequent Suspension
The duration of the second suspension is indefinite, and the student can be considered for readmission only after being approved for reinstatement by action of the petitions committee of the college or school to which the student is seeking admission. A favorable decision by the committee is unlikely within two years of the suspension.

Earning Academic Credit While on Suspension
A student on suspension is given an opportunity to reorder priorities and reassess his or her situation before returning. While serving suspension, a student may not be admitted to, or continue in, any academic program of the University. Credit earned at any other institution while a student is on suspension from the University may not be applied toward a degree from USC, unless approved by the Standards and Petitions Committee of the college to which the student is readmitted. Prior approvals for transient study will be revoked for suspended students.

Retention in Degree Programs
Students are reminded that the above regulations are for all undergraduate students in the University. Many colleges and schools offer degree programs that have more stringent requirements for retention in those programs. Failure to meet the academic requirements of those degree programs may result in the student being asked to leave that program. Students should consult the colleges and schools section of the Academic Bulletin to review the specific degree retention requirements.

Academic Progression and Program Dismissal
Students dismissed from a program for failing to meet academic progression requirements will be reassigned to Undergraduate Studies and will be advised by the University Advising Center. Students assigned to Undergraduate Studies will have a maximum of two semesters before declaring a new program of study. At the conclusion of two semesters enrolled at full-time status, students who have not declared a major/program within a degree-granting college will have a registration hold placed and will be unable to enroll in coursework.

Petition Procedures
In addition to previously specified provisions by which a student may petition to waive the application of this suspension policy, a student suspended by this policy has the right to petition to the appropriate college scholastic standards and petitions committee to waive the application of the suspension rule at any time. Students placed on first suspension who wish to petition for a waiver of the suspension rule may petition only the committee of the college in which they were enrolled at the time of suspension.

Academic Forgiveness Policy
Academic Forgiveness for Former USC Students with Less than a 2.00 Cumulative GPA
Under certain conditions undergraduate students may apply for academic forgiveness. Academic forgiveness allows for a recalculation of the GPA to permit a student to graduate or pursue a specific academic program. In order to apply for academic forgiveness all of the following conditions must be met:

1. The student has not been enrolled at any campus of the University of South Carolina for at least 48 months.
2. The student must have been readmitted to a degree program at the University of South Carolina and must have completed at least 24 hours of approved graded course work prior to applying for academic forgiveness.
3. After readmission the student must have earned a cumulative GPA of at least 2.00 and met the progression requirements of the degree program.
4. The student must never before have been granted academic forgiveness.

A student who has met these conditions and desires academic forgiveness must submit a written request for academic forgiveness to the dean of the college in which the student is enrolled. After verification of the student's eligibility, the dean shall inform the registrar that academic forgiveness has been granted to the student.

Once academic forgiveness has been granted, the following apply to the student's academic record:

1. All curriculum requirements will be in accordance with those in force at the time of or subsequent to the student's readmission.
2. The student may not receive Academic Honors upon graduation.
3. The student's grade point average is recalculated beginning with the semester in which the student was readmitted to the University. All academic hours attempted at USC will be calculated toward the GPA. The student's GPA will be recalculated using the GPA after readmission and a 2.00 on all grade hours taken prior to readmission.
4. Courses in which the student received a passing grade prior to readmission may, at the discretion of the dean, be applied toward the degree.
5. The following statement shall appear on the academic record and transcript of any student granted academic forgiveness: "This student was granted academic forgiveness under the University of South Carolina Academic Forgiveness Program. The GPA has been recalculated under the criteria of this program to allow for eligibility for graduation."
6. The permanent academic record will remain an unmodified record of all work attempted at the University of South Carolina.

Academic Honors Policies
Honor Lists
Each semester academic achievement is recognized by entering on the President's Honor List or the Dean's Honor List the names of students who, at the end of the previous semester, attained the following standards.


President’s Honor List: a grade point average of 4.00 earned on a minimum of 12 credited semester hours.

Dean’s Honor List: a grade point average of 3.50 or higher earned on a minimum of 12 credited semester hours.

No course carried on a Pass-Fail basis, by examination, correspondence, or exemption will be counted toward the 12 hours required for either the President’s or Dean’s Honor List.

Graduation with Honors

Graduation with honors will be based on a student’s Total Institutional GPA. Honors designators are determined at the time of graduation and may not be applied retroactively.

To graduate with such honors, a student must have earned at least 60 credit hours applicable toward the degree in residence at the University, 30 credit hours for an associate degree.

The following designations indicate a consistently high level of academic achievement at USC.

Baccalaureate Degree Designations

- Summa Cum Laude: a cumulative GPA of 3.95-4.00
- Magna Cum Laude: a cumulative GPA of 3.75-3.949
- Cum Laude: a cumulative GPA of 3.50-3.749

Associate Degree Designations

- Highest Honors: a cumulative GPA of 3.95-4.00
- High Honors: a cumulative GPA of 3.75-3.949
- Honors: a cumulative GPA of 3.50-3.749

With Honors from South Carolina Honors College: Any student who completes the requirements of the Honors College, regardless of the major or undergraduate degree, is awarded that degree “With Honors from South Carolina Honors College.”

With Distinction: Any student who earns an undergraduate degree and completes the appropriate requirements will be awarded graduation “With Distinction in [that major].” For details, refer to the degree requirements of specific majors.

With Leadership Distinction: Any undergraduate student who completes Leadership Distinction requirements in community service, diversity and social advocacy, global learning, professional and civic engagement, and/or research as specified by the Provost’s Office, regardless of the major or undergraduate degree, is awarded that degree “With Leadership Distinction in [that track].” For further details, contact the Office of USC Connect.

Degree Conferral and Graduation Policies

Graduation Requirements

In-Residence Requirement

The last 25% of a student’s degree must be completed in residence at the University, and at least half of the hours in the student’s major courses and in the student’s minor courses (if applicable) must be taken at the University.

The chart below shows the minimum number of hours required to be completed in residence based on to the total number of hours required for a degree.

In-Residence Chart

<table>
<thead>
<tr>
<th>Total Number of Hours Required for Degree</th>
<th>Minimum Number of In-residence Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 Hours (Associates Degree)</td>
<td>15 Hours</td>
</tr>
<tr>
<td>70 Hours (Associates Degree)</td>
<td>18 Hours</td>
</tr>
<tr>
<td>120 Hours</td>
<td>30 Hours</td>
</tr>
<tr>
<td>121-124 Hours</td>
<td>31 Hours</td>
</tr>
<tr>
<td>125-128 Hours</td>
<td>32 Hours</td>
</tr>
<tr>
<td>129-132 Hours</td>
<td>33 Hours</td>
</tr>
<tr>
<td>133-136 Hours</td>
<td>34 Hours</td>
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<td>141-144 Hours</td>
<td>36 Hours</td>
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Some programs impose greater student residence and/or major requirements.

Regardless of when students enter the University, they must complete the last 25% of the degree before graduation enrolled in classes approved by the appropriate dean of the college, school, or campus from which the degree will be granted. In addition, all degree applicants are urged to confer with the deans of their respective colleges about their programs and degree requirements prior to the beginning of their last semester of residence at the University.

“In residence” means that the student was regularly enrolled at USC; completed courses offered by Columbia or one of the other campuses of the University, was a member of a class which was supervised by a regular faculty member of USC; attended classes on a regular, pre-established schedule; and in other ways conformed to the requirements which are normally connoted by the term “in residence.” In-residence requirements may not be met by courses for which credit is earned by exemption or exam, courses taken by correspondence, or courses for which transfer credit was awarded. Courses taken under the Pass-Fail option meet in-residence requirements. If the student has not established credit for the prescribed number of hours in residence, then the student is not eligible either for graduation with honors or for graduation on the basis of having completed 25% of the degree during the final semesters at the University.

Application Process

All candidates for degrees and certificates must file formal applications during the last academic term before graduation with the deans of their respective colleges on forms obtained at the Office of the University Registrar or the appropriate dean’s office. Applications must be filed by the third week of the fall or spring semester in which the degree is to be awarded or within the first 10 days of the first summer session. If the student is not enrolled during the first summer session, the application must be filed within the first week of the second summer session for the student to graduate at the summer commencement.

Second Baccalaureate Degree

At times the University confers a second baccalaureate degree upon candidates who have completed requirements for the second degree.
The following specifications for a second baccalaureate degree apply:

1. The student must meet admission and progression requirements for the second degree, and must have received formal approval to pursue the second degree from both deans.
2. All requirements for the second degree must be fulfilled.
3. The additional requirements for the second degree must include a minimum of 24 semester hours beyond those required for the first degree.
4. No course that satisfies a general education, major, minor, cognate, or requirement other than a free elective for the first degree may be applied to the major field of the second degree.
5. The student must file a separate degree application for the second degree with the appropriate college or school.

Under this policy a student may apply for two degrees at one time or separately. In either case, the student receives two diplomas. It should be noted that a second major does not by itself lead to the conferral of a second degree.

Students who submit two degree applications for the same degree in the same college for a double major will receive one diploma.

Second Major

In some degree programs, a student may elect a second major. Normally, second majors are possible only in degree programs with similar general education requirements. The second major option is not available in all colleges.

1. The student must meet admission and progression requirements for the second major.
2. The student must have received approval from both deans for a second major.
3. All requirements for the second major must be fulfilled.
4. All general education and special departmental requirements normally associated with the second major must be fulfilled.
5. In cases where the first major and the second major lead to different degrees, the student must designate one as the official degree of record. A second major eliminates the cognate requirement; however, special departmental requirements normally completed as part of the cognate are not waived.

Fulfillment of the requirements for a second major are indicated on the student’s official transcript upon graduation. No notation for a second major is placed on the official transcript for course work completed after graduation.

Students who submit two degree applications for the same degree in the same college for a double major will receive one diploma*.

Indebtedness

It is expected that students will discharge any indebtedness to the University as quickly as possible. No diploma, certificate, enrollment verification, or transcript will be issued to or for students who have not made satisfactory settlement with the Office of Financial Services for all of their indebtedness to the University.

Records, Transcript, and Enrollment Certification

Change of Name or Address

It is the obligation of every student to notify the Office of the University Registrar of any change in name or address (including electronic address). Failure to do so can cause serious delay in the handling of student records and in notification of emergencies. Change of name may only be accomplished by presenting proper legal documentation.

Transcripts

A transcript of a student’s record carries the following information: current status; a detailed statement of the scholastic record showing courses pursued with semester hours carried, semester hours earned, grades, grade points, grade point average, and system of grading; a permanent record of all failures, Incomplete grades, and penalties (such as suspension); cumulative USC grade totals; and references to other college or universities attended, dates attended, and the total transfer credits accepted by the University of South Carolina.

Any student who needs a transcript or a certified copy of the end-of-semester grade report may complete a Transcript Request form or send a signed and dated letter containing all pertinent identifying information to the Office of the University Registrar. Official transcripts may also be requested online through Self Service Carolina. With the exception of copies made for internal use, no copy of a student’s permanent record (transcript) will be released to anyone without the student’s written consent. In addition to the written consent, each transcript request should include full name or names used, student number, current mailing address, dates of attendance, location of attendance, and date of birth to assure proper identification of the record requested.

No transcript will be issued to a student who is indebted to the University.

No partial transcript will be issued.

The nonrefundable transcript processing fee is $12.

Enrollment Certification

Certification of enrollment is based upon the total number of credit hours for which a student is registered at the time of the certification request. Beginning and ending dates reported in enrollment certification conform to the official USC academic calendar dates for the term requested.

Indebtedness

It is expected that students will discharge any indebtedness to the University as quickly as possible. No diploma, certificate, enrollment verification, or transcript will be issued to or for students who have not made satisfactory settlement with the Office of Financial Services for all of their indebtedness to the University.

Notification of Student Rights under FERPA

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student’s education records within 45 days of the day the University receives a request for access.
A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA.

A student who wishes to ask the University to amend a record should write the University official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the University discloses personally identifiable information from the student’s education records, except to the extent that FERPA authorizes disclosure without consent. The University may disclose Directory Information without prior written consent, unless the student has submitted a written request to the Office of the University Registrar not to release Directory Information pertaining to him or her. Students are notified annually, both in the academic bulletins and via email, of their rights under FERPA and are provided with instructions on how to request a “Confidentiality Indicator” on their academic record which prevents the disclosure of Directory Information. A Confidentiality Indicator will be placed on the release of Directory Information filed with the University Registrar, which will remain in effect until the student files a written request to remove it. A request not to disclose Directory Information applies to the entire category of such information and cannot be selective with regard to specific items defined as Directory Information. Similarly, a request not to disclose Directory Information applies to all individuals and cannot be selective with regard to specific individuals or organizations.

- The University discloses education records without a student’s prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position; a person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, service provider or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.
- A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the University.
- To officials of other institutions in which the student seeks or intends to enroll provided that the student had previously requested a release of his/her record;
- To authorized representatives of the U.S. Department of Education, U.S. Department of Defense (Solomon Amendment), U.S. Attorney General, the Comptroller General of the United States, state education authorities, organizations conducting studies for or on behalf of the University, and accrediting organizations; to the Department of Homeland Security (DHS) and its Immigration and Customs Enforcement Bureau (ICE) in order to comply with the requirements of SEVIS.
  - In connection with a student’s application for, and receipt of, financial aid;
  - To comply with a judicial order or lawfully issued subpoena;
  - To parents of dependent students as defined by the Internal Revenue Code, Section 152;
  - To appropriate parties in a health or safety emergency; or
  - To the alleged victim of any crime of violence of the results of any disciplinary proceedings conducted by the University.
  - The University may disclose the result of a disciplinary proceeding to a parent or guardian so long as the student is under the age of 21 at the time of the incident and the proceeding has resulted in a violation of University drug or alcohol policies, or any federal, state, or local law.
  - To students currently registered in a particular class, the names and email addresses of others on the roster may be disclosed in order to participate in class discussion.

Release of Directory Information

In accordance with section 99.7 of the Family Educational Rights and Privacy Act (FERPA), the University of South Carolina provides students annual notification of their FERPA rights. The University of South Carolina has designated certain items as Directory Information. At the University of South Carolina, these items are as follows:

- Name
- Dates of Attendance
- Campus
- College or School
- Classification
- Primary Program of Study
- Full-time or Part-time Status
- Degree(s) Awarded Including Dates
- Honors and Award Including Dean’s and President’s List
- University Email Address
- City, State, and Zip Code Associated with a Student’s Permanent Address

The University may disclose Directory Information without prior written consent, unless the student has submitted a written request to the Office of the University Registrar not to release Directory Information pertaining to him or her. Students are notified annually, both in the academic bulletins and via email, of their rights under FERPA and are provided with instructions on how to request a “Confidentiality Indicator” on their academic record which prevents the disclosure of Directory Information. A Confidentiality Indicator will be placed on the release of Directory Information filed with the University Registrar, which will remain in effect until the student files a written request to remove it. A request not to disclose Directory Information applies to the entire category of such information and cannot be selective with regard to specific items defined as Directory Information. Similarly, a request not to disclose Directory Information applies to all individuals and cannot be selective with regard to specific individuals or organizations.
The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University of South Carolina to comply with the requirements of FERPA.

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

Academic Assessment Policy
Assessment, in a university or college setting, can be interpreted to mean several things. Assessment can be the process of evaluating the success of a university in meeting its mission and goals (institutional assessment), or it can be the processes associated with evaluating student outcomes in relation to stated program goals (program assessment), or it can be course-embedded assessment techniques used to deliver information and/or evaluate student learning by observing students’ skills and abilities.

The University of South Carolina is committed to offering programs and activities that encourage students to develop both academically and socially. In order to evaluate the effectiveness of our efforts, faculty, administrators, and staff conduct ongoing assessments. The Office of Institutional Planning and Assessment assists the faculty, administration, and other staff in gathering and analyzing assessment data. Assessment, therefore, is the ongoing process of self-improvement through analyzing and evaluating all of our functions and activities.

Students, faculty, and staff play critical roles in the assessment process. Consequently, participation in assessment activities is a University priority and responsibility. The information gleaned from assessment activities is used for planning and program improvement. Many of the University's assessment activities are mandated by external agencies. Therefore, all students wishing to receive a degree from the University of South Carolina must complete procedures required for the assessment of general education and those required by their major and/or area of concentration. If a student fails to participate in a required assessment activity, a hold may be placed on the student's records.

Primary responsibility for the assessment of academic programs within the major or area of concentration is with the faculty of each academic unit. Information pertinent to assessment of the major or area of concentration is provided to students by the department from which the degree will be granted.

Primary responsibility for coordinating the assessment of general education is with the Office of Institutional Assessment and Compliance. The faculty is actively involved in planning assessment and using the results of assessment to evaluate the effectiveness of general education. The assessment of general education is administered through the use of exams, interviews, surveys, questionnaires, or other instruments as developed by the faculty and Office of Institutional Assessment and Compliance.

The results of any activities used for program or general education assessment may not be used for promotion and/or tenure files or for annual performance evaluations or for the evaluation of any student's progress in a course or progress toward a degree. Assessment activities, however, are integral to the processes of teaching and learning.

For more information contact the Office of Institutional Assessment and Compliance (http://www.ipr.sc.edu/).
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