## Degree Requirements (120 hours)

### Program of Study

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### Founding Documents Requirement

All undergraduate students must take a 3-credit course or its equivalent with a passing grade in the subject areas of History, Political Science, or African American Studies that covers the founding documents including the United States Constitution, the Declaration of Independence, the Emancipation Proclamation and one or more documents that are foundational to the African American Freedom struggle, and a minimum of five essays from the Federalist papers. This course may count as a requirement in any part of the program of study including the Carolina Core, the major, minor or cognate, or as a general elective. Courses that meet this requirement are listed here (https://academicbulletins.sc.edu/undergraduate/founding-document-courses/).

### 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 (https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/)

#### ARP – Analytical Reasoning and Problem Solving (A Minimum of 12 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 101L
- BIOL 102 & BIOL 102L

#### 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 (https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/)

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. 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 additional GHS course beyond the Carolina Core GHS requirement.

- If the Carolina Core GHS requirement is fulfilled by a U.S. history course, the College of Arts and Sciences history requirement must be fulfilled by a non-U.S. history course.
• If the Carolina Core GHS requirement is fulfilled by a non-U.S. history course, the College of Arts and Sciences history requirement must be fulfilled by a U.S. history course.

Please select the College of Arts and Sciences history requirement from the approved list of U.S. and non-U.S. history courses (https://academicbulletins.sc.edu/undergraduate/arts-sciences/history-requirement/).

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 (https://academicbulletins.sc.edu/undergraduate/arts-sciences/courses-acceptable-social-science-fine-arts-humanities/)
  • 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 (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 (https://academicbulletins.sc.edu/undergraduate/arts-sciences/courses-acceptable-cognate/).

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)

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 (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>
</tbody>
</table>

Total Credit Hours 9

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>BIOL 543</td>
<td>Comparative Physiology (optional lab available)</td>
<td></td>
</tr>
</tbody>
</table>
Select one **Plant Biology** course from the following: 3

- BIOL 420  Survey of the Plant Kingdom (optional lab available)
- BIOL 425  Plant Form and Function (optional lab available) ¹
- BIOL 523  Plant Development (optional lab available)
- BIOL 524  Mycology
- BIOL 525  Marine Plants
- BIOL 526  The Fall Flora
  - or BIOL 527  The Spring Flora
  - or BIOL 528  The Summer Flora
- BIOL 549  Plant Physiology ¹
- BIOL 670  Plant Ecology (optional lab available)
- BIOL 671  Plant Responses to the Environment

13 hours of **biological sciences** majors courses 300 or higher 13

**Total Credit Hours** 19

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.**