CYBER INTELLIGENCE, B.S.

Not accepting majors at this time Learning Outcomes

- 1. Cyber Intelligence majors will apply digital data analysis tools to evaluate and solve cybersecurity problems.
- 2. Cyber Intelligence majors will identify and describe the psychological factors that influence humans' relationship to and response to cyber and digital information.
- 3. Cyber Intelligence majors will apply historical, political, global, and cultural contexts to solve problems.
- 4. Cyber Intelligence majors will be able to explain and apply ethical concepts in response to concrete situations.
- 5. Cyber intelligence majors will identify and explain legal concepts relevant to cyber challenges.
- 6. Cyber Intelligence majors will be able to respond to cyber challenges in ways that are socially appropriate and culturally sensitive.

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	34-46
2. College Requirements	15-18
3. Program Requirements	14-28
4. Major Requirements	43

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 State 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 (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)

 two 4-credit hour CC-SCI laboratory science courses (https:// academicbulletins.sc.edu/undergraduate/carolina-core-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 (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.

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

 any CC-GHS course (https://academicbulletins.sc.edu/ undergraduate/carolina-core-courses/)

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

CMS – Effective, Engaged, and Persuasive

Communication: Spoken Component¹ (0-3 hours)

• SPCH 213*

INF – Information Literacy¹ (0-3 hours)

 any overlay or stand-alone CC-INF course (https:// academicbulletins.sc.edu/undergraduate/carolina-core-courses/)

VSR – Values, Ethics, and Social Responsibility (3 hours)

• POLI 201*

Carolina Core Stand Alone or Overlay Eligible Requirements – Overlayapproved 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 509* or STAT 515*
- GEOG 105*

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/historyrequirement/).

Social Science and Fine Arts or Humanities (6 hours)

Must be passed with a grade of C or higher

- Social Science (3 hours)
 - Choose 1 of the following to fulfill the Social Science requirement:
 - POLI 101*
 - GEOG 121*
 - GEOG 210*

• Fine Arts/Humanities (3 Hours)

 A Bachelor of Science from the College of Arts and Sciences requires one 3-hour Fine Arts/Humanities Course (https:// academicbulletins.sc.edu/undergraduate/arts-sciences/coursesacceptable-fine-arts-humanities/)

Note: Students may use a 200-level foreign language course, if needed, to fulfill the 3 hours of Fine Arts or Humanities requirement.

3. Program Requirements (14-28 hours)

Supporting Courses (14-17 hours)			
Course	Title	Credits	
CSCE 145	Algorithmic Design I (*) 2	4	
CSCE 146	Algorithmic Design II (*) ²	4	
CSCE 201	Introduction to Computer Security (*) 2	3	
or ITEC 293	Cybersecurity Operations		
Foreign Languag	e	3-6	
Total Credit Hour	rs	14-17	

¹ Students in the Cyber Intelligence major must complete at least 3 hours of foreign language at the 300-level.

² Must be passed with a grade of C or higher

Cognate or Minor (0-18 hours)

This major does not require a cognate or minor.

An optional minor may be added to a student's program of study. A 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 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. An optional additional major must include all major courses as well as any prescribed courses noted (*) in the bulletin. Prescribed courses noted in the bulletin may be shared with Carolina Core, College requirements, and Program requirements in the primary program.

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

Electives (0-14 hours)

120 (or 128) degree applicable credits are required to complete any degree at USC. After the cognate, minor or second major is complete, any additional credits needed to reach 120 (or 128) total credits can be fulfilled by electives. 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 (43 hours)

Must be passed with a grade of C or higher.

Selection of major courses must include at least one Carolina Core Integrative course: CRJU 577, POLI 315, POLI 451, POLI 504, PSYC 410, PSYC 430 or PSYC 440.

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Major Courses (4 Course	Title	Credits	GEOG 563
Digital Data Analy	ysis		Total ofcult float
CSCE 522	Information Security Principles	3	Major Map
MATH 344	Applied Linear Algebra	4	A major map is a l
& 344L	and Applied Linear Algebra Lab		including critical o
MATH 374	Discrete Structures	3	clear path to grad
STAT/CSCE 587	Big Data Analytics	3	Major maps are o
or STAT 530	Applied Multivariate Statistics and Data Mining		required in a prog
Select one of the	5	3	for assistance in t
ITEC 493	Information Technology Security for Managers		study and course
MATH 528	Mathematical Foundation of Data Science and Machine Learning		Cyber Intelligence
MATH 572	Mathematical Foundation of Network Science		
MATH 587/ CSCE 557	Introduction to Cryptography		
STAT 516	Statistical Methods II		
Law and Public P	olicy		
Select two of the	following:	6	
POLI 315	International Relations		
POLI 342	National Security Policies of the United States		
POLI 417	Theories of War in International Relations		
POLI 420	International Law		
POLI 421	Law and Contemporary International Problems		
POLI 433	Economic Aspects of International Politics		
POLI 442	Globalization and Security		
POLI 450	Constitutional Law I: Institutional Powers		
POLI 451	Constitutional Law II: Civil Liberties		
GEOG 515	Political Geography		
Ethics			
Select one of the	following:	3	
PHIL 320	Ethics		
POLI 504	Politics and Ethics		
Psychology			
Select one from t	he following:	3	
PSYC 410	Behavioral and Mental Disorders		
PSYC 430	Survey of Social Psychology		
PSYC 440	Survey of Personality		
Domestic and Glo	bal Cyberchallenges		
Select two of the	following:	6	
CRJU 424	Criminal Justice Intelligence		
CRJU 440	Homeland Security and Terrorism		
CRJU 512	Information-Based Management in Criminal Justice		
CRJU 577	Law and Criminal Justice Policy		
CRJU 582	Computer Applications in Criminal Justice		
HIST 397	Evolution of Warfare II		
HIST 468	American Military Experience		
Tools for Informa	tion Security		
GEOG 345	Introduction to Remote Sensing	3	
GEOG 263	Geographic Information Systems	3	
Select one of the		3	
GEOG 551	Remote Sensing of the Environment		
	-		

Advanced Geographic Information Systems ſS

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layout of required courses in a given program of study, courses and suggested course sequences to ensure a duation.

only a suggested or recommended sequence of courses gram of study. Please contact your academic advisor the application of specific coursework to a program of selection and planning for upcoming semesters.

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