

CYBER INTELLIGENCE, B.S.

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 Component ¹ (0-3 hours)

- SPCH 213

INF – Information Literacy ¹ (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

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 205 (<https://academicbulletins.sc.edu/search/?P=STAT%20205>) 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/history-requirement/>).

Social Science and Fine Arts or Humanities (6 hours)

- Choose 1 of the following to fulfill the Social Science requirement:

Must be passed with a grade of C or higher

Course	Title	Credits
POLI 101	Introduction to Global Politics	3
GEOG 121	Globalization and World Regions	3
GEOG 210	Peoples, Places, and Environments	3

- 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/>) (3 hours of Fine Arts or 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 (Must be passed with a grade of C or higher)	4
CSCE 146	Algorithmic Design II (Must be passed with a grade of C or higher)	4
CSCE 201	Introduction to Computer Security (Must be passed with a grade of C or higher)	3
or ITEC 293	Cybersecurity Operations	
Foreign Language ¹		3-6
Total Credit Hours		14-17

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

Electives (0-14 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 (43 hours)

Must be passed with a grade of C or higher.

Major Courses (43 hours)

Course	Title	Credits
Digital Data Analysis		
CSCE 522	Information Security Principles	3
MATH 344 & 344L	Applied Linear Algebra and Applied Linear Algebra Lab	4

MATH 374	Discrete Structures	3
STAT/CSCE 587 or STAT 530	Big Data Analytics Applied Multivariate Statistics and Data Mining	3
Select one of the following:		3

ITEC 493	Information Technology Security for Managers	
MATH 528	Mathematical Foundation of Data Science and Machine Learning	
MATH 572	Mathematical Foundation of Network Science	
MATH 587/CSCE 557	Introduction to Cryptography	
STAT 516	Statistical Methods II	

Law and Public Policy

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 the following:		3
PSYC 410	Behavioral and Mental Disorders	
PSYC 430	Survey of Social Psychology	
PSYC 440	Survey of Personality	

Domestic and Global 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 Information Security

GEOG 345	Interpretation of Aerial Photographs	3
GEOG 363	Geographic Information Systems	3
Select one of the following:		3
GEOG 551	Principles of Remote Sensing	
GEOG 563	Advanced Geographic Information Systems	

Total Credit Hours		43
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