# CYBER INTELLIGENCE, B.S.

## Degree Requirements (120 Hours)

### Program of Study

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<th>Requirements</th>
<th>Credit Hours</th>
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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 (34-46 hours)

#### CMW – Effective, Engaged, and Persuasive Communication: Written

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

- ENGL 101
- ENGL 102

#### ARP – Analytical Reasoning and Problem Solving

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

- MATH 141 (https://academicbulletins.sc.edu/search/?P=MATH%20141)
- MATH 142 (https://academicbulletins.sc.edu/search/?P=MATH%20142)

#### SCI – Scientific Literacy

- 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

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

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

### GSS – Global Citizenship and Multicultural Understanding: Social Sciences

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

- PSYC 101

### AIU – Aesthetic and Interpretive Understanding

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

### CMS – Effective, Engaged, and Persuasive Communication: Spoken Component

- SPCH 213

### INF – Information Literacy (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**
  - POLI 101
  - GEOG 121
  - GEOG 210

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 146</td>
<td>Algorithmic Design II (Must be passed with a grade of C or higher)</td>
<td>4</td>
</tr>
<tr>
<td>CSCE 201</td>
<td>Introduction to Computer Security (Must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or ITEC 293</td>
<td>Cybersecurity Operations</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>1</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 522</td>
<td>Information Security Principles</td>
<td>3</td>
</tr>
<tr>
<td>MATH 344</td>
<td>Applied Linear Algebra and Applied Linear Algebra Lab</td>
<td>4</td>
</tr>
<tr>
<td>MATH 374</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>STAT/CSCE 587</td>
<td>Big Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 530</td>
<td>Applied Multivariate Statistics and Data Mining</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- 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**