

CYBERSECURITY, BACHELOR OF SCIENCE

Code	Title	Hours
General Education Courses		
<i>I. Communication</i>		
English:		
ENGL U101	Composition I	3
ENGL U102	Composition II	3
Speech:		
SPCH U201	Foundations in Oral Communication	3
<i>II. Mathematics, Logic & Natural Sciences</i> ¹		
Mathematics: ^{2,3}		
MATH U141	Calculus I	4
MATH U142	Calculus II	4
Natural Science (w/ lab):		
Select two of the following:		8
BIOL U101 & U101L	Introductory Biology I and Introductory Biology I Lab	
BIOL U102 & U102L	Introductory Biology II and Introductory Biology II Lab	
CHEM U111 & U111L	General Chemistry and General Chemistry Lab	
CHEM U112 & U112L	General Chemistry and Qualitative Analysis and General Chemistry and Qualitative Analysis Lab	
PHYS U201 & U201L	General Physics I and General Physics I Lab	
PHYS U202 & U202L	General Physics II and General Physics II Lab	
<i>III. Information Technology</i>		
Information Technology: ¹		
CSCI U138	Introduction to Computer Technology (Information Technology): ²	3
or CSCI U150	Introduction to Computer Science	
<i>IV. Fine Arts, Humanities & History</i>		
Fine Arts:		
Select one of the following:		3
AFAM U204	African American Culture	
ARTH U101	Introduction to Art	
ARTH U105	History of Western Art: Prehistory - Middle Ages	
ARTH U106	History of Western Art: Renaissance - Modern	
MUSC U110	Introduction to Music	
MUSC U140	History of American Popular Music	
THEA U161	Introduction to Theatre Art	
THEA U170	Fundamentals in Acting	
History:		
Select one of the following:		3
HIST U101	Introduction to World History I	
HIST U102	Introduction to World History II	
HIST U105	History of the United States to 1877	
HIST U106	History of the United States from 1865	

V. Foreign Language & Culture

Foreign Language:

Select one of the following:⁴ 3

ASLG U101 American Sign Language I

FREN U101 Introductory French I

GERM U101 Introductory German I

SPAN U101 Introductory Spanish I

VI. Social & Behavioral Sciences

Social & Behavioral Science:

Select one of the following: 3

AFAM U201 Introduction to African American Studies

ANTH U102 Understanding Other Cultures

ECON U221 Principles of Macroeconomics

ECON U222 Principles of Microeconomics

GEOG U103 Introduction to Geography

POLI U101 American National Government

PSYC U101 Introduction to Psychology

SOCY U101 Introduction to Sociology

SPCH U210 Interpersonal Communication

UNIV U201 Leadership Development I

WGST U101 Introduction to Women's & Gender Studies

VII. General Education Electives

Select any approved general education course or courses (<https://academic-catalog.uscupstate.edu/academic-programs/general-education-courses/>) 6

Core Major Requirements^{2,5}

CSCI U200 Computer Science I 3

CSCI U210 Computer Organization 3

CSCI U236 Python Programming 3

or CSCI U238 C++ Programming

CSCI U300 Computer Science II 3

CSCI U321 Computer Science III 3

CSCI U355 Digital Forensics 3

CSCI U375 Introduction to Cybersecurity 3

CSCI U412 Introduction to Computer Networks and Security 3

CSCI U455 Computer Security 3

CSCI U511 Operating Systems 3

CSCI U570 Network Security 3

CSCI U575 Applied Cybersecurity 3

CSCI U599 Computer Science Senior Seminar 3

Major Electives²

Select six of the following, totaling at least 18 credits: 18

CSCI U395 Internship

CSCI U399 Independent Study

CSCI U421 Design and Analysis of Algorithms

CSCI U450 E-Business Web Application Development

CSCI U456 Applied Cryptography

CSCI U499 Directed Research

CSCI U509 Topics in Computer Science

CSCI U512 Advanced Networking

CSCI U515 Wireless Networks

CSCI U516 Distributed and Network Programming

CSCI U520	Database System Design	
CSCI U521	Database Implementation, Application and Administration	
CSCI U525	Knowledge Discovery and Data Mining	
CSCI U530	Programming Language Structures	
CSCI U540	Software Engineering	
CSCI U555	Advanced Computer Security and Information Assurance	
CSCI U580	Introduction to Artificial Intelligence	
<i>Supporting Courses</i> ²		
MATH U174	Elements of Discrete Mathematics	3
<i>Electives</i> ⁶		
Select electives sufficient to reach 120 credit hours.		14
Total Hours		120

¹ Students must complete all courses in this category even if they have earned an Associate's degree.

² A minimum grade of C is required in each course indicated.

³ For MATH U141 Calculus I students must satisfy prerequisites by a score of 3 or better on AP Calculus AB, math placement exam, or passing MATH U126 Precalculus I and MATH U127 Precalculus II with a grade of C or better.

⁴ The minimum acceptable level of competency is completion of the 101 level of a language. Students who place into the 102 or higher level of a language satisfy the language requirement but will have additional hours in general education electives, if hours are required by their degree program.

⁵ At least 15 credit hours of Core Major Requirements must be completed at USC Upstate.

⁶ UNIV U101 The Student in the University is recommended for the first semester course.