Cybersecurity, BS

Hours required and general/college requirements

A minimum of 120 semester hours, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Science degree as specified in the "University Core Curriculum" in the Academics section of this catalog and the College of Engineering requirements.

Major requirements

Major of 88 hours, including:

Course	Title	Hours
CSCE 1035	Computer Programming I	4
CSCE 1045	Computer Programming II	3
CSCE 2100	Foundations of Computing	3
CSCE 2110	Foundations of Data Structures	3
CSCE 2550	Foundations of Cybersecurity	3
CSCE 3530	Introduction to Computer Networks	3
CSCE 3550	Introduction to Computer Security	3
CSCE 3600	Principles of Systems Programming	3
CSCE 4010	Social Issues in Computing	3
CSCE 4357	Database Systems Security	3
CSCE 4535	Introduction to Network Administration	3
CSCE 4560	Secure Electronic Commerce	3
CSCE 4565	Secure Software Systems	3
CSCE 4570	Information Privacy	3
CSCE 4907	Cybersecurity Capstone I	3
CSCE 4927	Cybersecurity Capstone II	3

Electives

Students choose four courses from the following list:

Course	Title	Hours
CSCE 4050	Applications of Cryptography	3
CSCE 4555	Computer Forensics	3
CSCE 4520	Wireless Networks and Protocols	3
CSCE 4575	Blockchain & Applications	3
INFO 4670	Data Analysis & Knowledge Discovery	3

INFO 4710   Information Technology Management   3
INFO 4745   Information Architecture   3
CJUS 3340   Computer Crime   3
CJUS 4330   Domestic & International Terrorism 3
BCIS 4630   Fundamentals of IT Security 3
BCIS 4720   Web-Based Information Technologies   3
BCIS 4740   Admin & Policy in Information Security   3

Other course requirements

TECM 2700   Technical Writing   3
MATH 1710   Calculus I   4
MATH 1720   Calculus II   3
MATH 2700   Linear Algebra and Vector Geometry   3
MATH 3680   Applied Statistics   3
PHYS 1710   Mechanics   3
PHYS 1730   Mechanics Lab   1
PHYS 2220   Electricity & Magnetism   3
PHYS 2240   Electricity & Magnetism Lab 1
CHEM 1410   General Chemistry I   3
CHEM 1430   General Chemistry I Lab   1
CHEM 1420   General Chemistry II 3
CHEM 1440   General Chemistry II Lab   1

Minor

No minor is required.

Electives

Hours required for electives may vary based on course selection and the University Core Curriculum requirements. Electives may be required to satisfy the advanced hour requirement (42) and/or the minimum total hours required for the degree. For specific information see an academic advisor in the College of Engineering.

Other requirements:

Students must earn at least a grade of C and a minimum 2.5 GPA in CSCE 1035, CSCE 1045, CSCE 2100, CSCE 2550, and MATH 1710 as foundations to enroll in advanced courses.