

Computer Science

Degree Type

Bachelor of Science - Major

Major Requirements

The major consists of 41-50 credits.

Students choose one of three tracks: Cybersecurity, Full-Stack Software Development, and Theoretical Computing. The following core courses are required for each track, consisting of 32 credits:

Required Courses

Course Code	Title	Credits
CSCI-101	Programming I	4
CSCI-102	Programming II	4
CSCI-210	Discrete Mathematics	3
CSCI-220	Data Structures and Algorithms	3
CSCI-320	Algorithm Analysis and Design	3
CSCI-341	Computer Architecture	3
CSCI-342	Operating Systems	3
CSCI-350	Computer Networks	3
CSCI-400	Software Engineering	3
DSA-230	Database Systems	3

The remaining credits come from the tracks as follows (students choose one track):

Cybersecurity Track

Consists of 9 credits, including the following courses:

Course Code	Title	Credits
CSCI-360	Introduction to Cybersecurity	3
CSCI-362	Applied Cryptography	3
CSCI-460	Network Security	3

Full-Stack Software Development Track

Consists of 18 credits, including the following courses:

Course Code	Title	Credits
ART-120	Introduction to Visual Design	3
ART-322	Web Design and Development	3
ART-323	Graphic Design	3
CSCI-230	Web Scripting	3
CSCI-430	Server-Side Web Development	3
CSCI-432	Client-Side Web Development	3

Theoretical Computing Track

Consists of 9 credits, including the following courses:

Course Code	Title	Credits
CSCI-410	Numerical Algorithms	3
CSCI-412	Theoretical Cryptography	3
CSCI-414	Coding Theory	3
	Total Credits	42-50