

COMPUTER SCIENCE MAJOR (NON-COMPREHENSIVE)

Requirements

36 total credits

The Computer Science Major is ideal for students pursuing a liberal arts plan of study and provides the fundamental education necessary for positions in industry, graduate study, or fields that require knowledge of basic principles and concepts. Students choosing this program must select a minor from the numerous programs offered across campus.

Code	Title	Hours
Math and Computer Science Core Courses		
MATH 240	Calculus and Analytic Geometry I	4.00
MATH 310	Introduction to Abstract Mathematics	3.00
MATH 320	Discrete Structures	4.00
CSCI 201	Introduction to Programming	3.00
CSCI 202	Object-Oriented Programming	3.00
CSCI 224	Assembly Language Programming	4.00
CSCI 303	Algorithms and Data Structures	4.00
CSCI 356	Database Systems	3.00
or ITS 346	Database Management	
Advanced Topics Required Course		
Select one of the following:		3.00
CSCI 327	Embedded Systems Design	
CSCI 331	Computer Graphics and Game Design	
CSCI 351	Internet Programming	
CSCI 370	Computer Security	
Computational Theory Required Course		
MATH 421	Theory of Computation	4.00
or MATH 425	Algorithm Design and Analysis	
Capstone		
Select one of the following:		
CSCI 490	Computer Science Capstone Internship (or)	1.00-4.00
CSCI 498	Individual Capstone Project	
Total Hours		36.00-39.00