

# COMPUTER SCIENCE MAJOR

The computer science major is designed to prepare students for a career in software development. Requirements total 48-53 hours. Up to seven hours may apply to general education requirements.

## Program Outcomes:

Students completing a Bachelor of Arts degree in computer science will be able to:

- analyze a computer-related problem and design, implement, and evaluate a solution
- communicate technology-related ideas effectively in writing and orally with clarity and organization
- work together effectively as a team
- integrate computer science with the Christian faith

Code	Title	Hours
Required Courses		
CS 120	Computer Programming I <sup>1</sup>	3
CS 220	Computer Programming II	3
CS 235	Data Science I	3
CS 240	Discrete Mathematics	3
CS 260	Computer Networking	3
CS 270	Computer Operating Systems	3
CS 280	Computer Architecture	3
CS 310	Database Management Systems	3
CS 320	Data Structures	3
CS 330	Web Programming	3
CS 340	Programming Languages	3
CS 420	Software Engineering	3
CS 445	Internship	1-6
CS 490	Technology, Ethics, and Society <sup>1</sup>	3
Supporting Courses		
MA 121	Calculus and Analytic Geometry I <sup>1</sup>	4
MA 285X	Statistics <sup>1</sup>	4
	or MA 321 Mathematical Statistics I	
<b>Total Hours</b>		<b>48-53</b>

<sup>1</sup> May be used to fulfill a general education requirement.