

# COMPUTER SCIENCE MAJOR (BS ONLINE ONLY)

This degree program covers the core topics of computer science such as programming languages, computer architecture, data structures, operating systems, database, web systems, and software engineering. The program is designed to prepare students for both graduate schools and careers in the tech industry. Students will acquire skills such as problem-solving, software engineering, web application, mobile app development, database design, and teamwork which are essential in the modern workforce.

## General Education Requirements

All degree seeking undergraduate students must complete the general education (<http://catalog.csp.edu/archive/2020-2021/undergraduate/academic-information/general-education-requirements/>) requirements.

## Degree Requirements

Bachelor of Science (<http://catalog.csp.edu/archive/2020-2021/undergraduate/academic-information/graduation-requirements/#bs>) degree consists of a major of typically 45 to 60 credits, general education courses, and elective courses totaling a minimum of 120 credits.

Code	Title	Credits
<b>Prerequisite from General Education</b>		
MAT 110	Introduction to Probability and Statistics (3)	
<b>Required</b>		
CSC 115	Introduction to Computer Science	4
CSC 175	Math for Computer Science	4
or MAT 135	Calculus I	
CSC 222	Introductory Programming with Java	4
CSC 135	Client-Side Web Development	4
MAT 220	Discrete Mathematics	3
CSC 230	Database Design	4
CSC 322	Object Oriented Programming in Java	4
CSC 235	Server-Side Development	4
CSC 310	Computer Architecture and Operating Systems	4
CSC 330	Language Design and Implementation	4
CSC 422	Software Engineering	4
CSC 420	Data Structures and Algorithms	4
CSC 450	Computer Science Capstone	4
<b>Electives</b>		<b>4</b>
Choose one of the following		
CSC 315	Mobile App Development (4)	
CSC 435	Advanced Web Application Development (4)	
<b>Total Credits</b>		<b>55</b>