

COMPUTER SOFTWARE SCIENCE (BS)

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/undergraduate/academic-information/general-education-requirements/>) requirements.

Degree Requirements

Bachelor of Science (<http://catalog.csp.edu/undergraduate/academic-information/graduation-requirements/#bs>) degree consists of a major of typically 30 to 60 credits, general education courses, upper-level requirements, and elective courses totaling a minimum of 120 credits.

Code	Title	Credits
CSS 102	Introduction to Computer Science	3
DATX 105	Foundations of Data Analytics I	3
CSS 117	Introduction to Python	3
CSS 180 or MAT 135	Math for Computer Science Calculus I	3, 4
MAT 220	Discrete Mathematics	3
CSS 300	Programming II - Java	3
CSS 205	Web Development 1 – Client-Side	3
CSS 232	Database Design	3
CSS 305	Web Development 2 – Server-Side	3
CSS 320	Computer Architecture and Operating Systems	3
CSS 335	Programming Language Paradigms	3
CSSX 200	Unity I: Working at Unity	3
CSSX 300	Modern Technologies	3
CSS 405	Data Structures and Algorithms	3
CSS 444 or CSS 498	Computer Science Capstone Computer Science Internship	3
Total Credits		45-46