

Computer Science Major

A **Computer Science major** is required to take 36 credits in computer science: CPSC 111, 211, 215, 225, 231, 311, 415, 441, 493, 497, a second high order programming language, and one upper division (300 or 400 level) CPSC elective. The major also requires BUED 275 and MATH 212. Students (especially those who plan to do post-graduate study) are also strongly advised to take MATH 231, 232, and 331.

Computer science tracks are available in Cybersecurity and Data Science. The afore-mentioned list of required courses vary slightly in each track.

Program: Computer Science

Type: Major

Required Courses

Required Courses

Item #	Title	Credits
CPSC 111	Introduction to Computer Science	3
CPSC 211	Data Structures	3
CPSC 225	Computer Hardware Organization	3
CPSC 311	Systems Analysis and Design	3
CPSC 415	Operating Systems	3
CPSC 441	Database Management Systems	3
CPSC 493	Senior Project	3
CPSC 497	Internship	3
MATH 212	Discrete Mathematics	3

Take all of the following:

Item #	Title	Credits
CPSC 215	Assembly Language Programming	3
CPSC 231	Introduction to File Processing	3
BUED 275	Business Communications	3

Take 3 credits of a Second Higher Order Language:

Item #	Title	Credits
CPSC 142	Java Programming I	3
CPSC 242	Java Programming II	3
BSAN 242	Introduction to Programing	3

Choose 3 credits of any CPSC course 300-level or higher.

Recommended Courses for Graduate School:

Item #	Title	Credits
MATH 231	Calculus I	4
MATH 232	Calculus II	4
MATH 331	Linear Algebra	3

Total credits:

42