

Mathematics, Computer Science and Statistics Department

Computer Science Major Requirements

The requirements for a major in computer science include 10 courses following a "4-3-2-1" scheme: Four required basic courses, three required core courses, two electives and one senior project. There is also a required mathematics course.

The only required mathematics course for the computer science major is Mathematics 280 (A Bridge to Higher Mathematics). It should be taken no later than the semester in which a student takes Computer Science 319 (Data Structures) and before Computer Science 362 (Algorithm Analysis) and 380 (Theory of Computation). Students are strongly encouraged to take Mathematics 135 (Calculus 1) and should consider other courses in mathematics.

Senior Project: The required project can be an individual research project, and individual programming project or a group programming project. In any case, it must include a substantial written component and an oral presentation of the final product.

Computer Science Major Form (11 courses)

Basic Courses (4 courses required)

_____ CS 140 Introduction to Computer Programming

_____ CS 219 Techniques of Computer Science

_____ CS 220 Computer Organization

_____ CS 319 Data Structures

Core Courses (3 courses required)

_____ CS 362 Algorithm Analysis

_____ CS 364 Programming Languages

_____ CS 380 Theory of Computation

Electives (2 courses at 300+ level)

CS 3_____

CS 3_____

Senior Project (1 required)

_____ CS 489 SYE: Senior Project OR _____ CS 498 Senior Honors Project

Mathematics Requirement Course (1 course)

_____ Math 280 Bridge to Higher Mathematics