

A Sample CS Program for Freshmen

Computer science majors should complete the following CS courses in their first two years: 149, 159, 227, 240, 261, 327, and 345. In addition, students should satisfy their mathematics requirement (with courses in calculus and statistics). Students should also complete the JMU general education cluster one package as soon as possible, preferably as freshmen. Students can fill out their schedules with other general education courses. The following tables illustrate a common way to accomplish this.

	Fall	Spring
Freshman	CS 149 Calculus (MATH 231 or MATH 235) GenEd or WRIT 100 One GenEd Cluster 1 course	CS 159, CS/MATH 227 Calculus (MATH 232) Two GenEd Cluster 1 courses One other GenEd course
Sophomore	CS 240, CS 345 Optional calculus (MATH 236) One or two GenEd courses	CS 261, CS 327 Statistics (MATH 220, 229 or 318) Two GenEd courses

Table 1: A Schedule for the First Two Years

Junior and senior computer science majors take a combination of upper-level computer science courses, general education courses, “free” electives (courses that do not fulfill any requirements), and courses to fulfill optional minor or certification requirements. Each student must take an algorithms course (CS 412 or CS 452), programming languages (CS 430), three general CS electives (any CS course numbered CS 300 or above), and one systems elective (one of CS 432, CS 450, CS 456, or CS 470). The table below illustrates one way to schedule the junior and senior years’ coursework.

	Fall	Spring
Junior	CS 361, CS 412 or CS 452 Minor, GenEd, or free electives	CS 430, CS Elective Minor, GenEd, or free electives
Senior	CS Elective, CS Systems Elective Minor, GenEd, or free electives	CS Elective Minor, GenEd, or free electives

Table 2: A Schedule for the Junior and Senior Years