

Computer Science (128 credits)

The Bachelor of Science Degree

This is a suggested course plan. The order in which courses are taken may differ for each student.

First Year

Fall

MTH 150 Discrete Mathematics
CSC 171 Intro to Computer Science *
WRT 105 Primary Writing
Cluster course (1 of 6)

Spring

MTH 161 Calculus IA
CSC 172 Data Structures and Algorithms^P
Cluster course (2 of 6)
Cluster course (3 of 6)

Second Year

Fall

MTH 162 Calculus IIA^P
CSC 173 Formal Systems^P
Cluster course (4 of 6)
Cluster course (5 of 6)

Spring

MTH 165 Linear Algebra w Dif. Equat.^P
CSC 252 Computer Organization^P
Cluster course (6 of 6)
Elective

Third Year

Fall

CSC 254 Programming Lang Design and Imp.^P (F)
CSC 262 Computational Intro to Statistics^P (F)
OR MTH/STT 201, STT 213, ECO 230
CSC 2XX Advanced CSC Course
Upper Level Writing (WRT 273 Comm. Prof. ID (2 cr))

Spring

CSC 280 Computer Models and Limitations^P (S)
CSC 242 Artificial Intelligence^P
CSC 2XX Advanced CSC Course
Elective

Fourth Year

Fall

CSC 282 Design & Analysis of Efficient Algorithms^P
CSC 2XX Advanced CSC Course
Upper Level Writing
Elective

Spring

CSC 2XX Advanced CSC Course**
Elective
Elective
Elective

The Bachelor of Arts Degree

The B.A. degree requires a student to complete 12 courses (no more than two can be outside of Computer Science) above CSC 171. A student must have a track of three advanced CSC courses and meet the prerequisites for the track. Students must also take at least 2 core courses from this list: CSC 173, CSC 252, CSC 242, CSC 254, CSC 280, CSC 282. There are no required courses for the B.A. apart from CSC 171, MTH 150, and CSC 172. (see www.cs.rochester.edu for more details)

SEE BACK for prerequisites, cluster requirements, and other notes.

Computer Science contd.

^P Prerequisites:

For MTH 162: MTH 161 or equivalent

For MTH 165: MTH 143, 162, or 172

For CSC 172: CSC 171 or equivalent, MTH 150

For CSC 173: CSC 172

For CSC 242: MTH 150, CSC 172, CSC 173 strongly recommended.

For CSC 252: MTH 150, CSC 172

For CSC 254: CSC 173; CSC 252 recommended

For CSC 262: MTH 150 or 150A, AND MTH 142 or 161 or 171

For CSC 280: CSC 173, MTH 150

For CSC 282: MTH 150 and CSC 172, OR MTH 172

* Open to majors only.

** Students may take CSC 393 (Senior Project) to fulfill an advanced CSC course requirement.

Cluster Requirements

1 cluster in humanities

1 cluster in social sciences