**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. \*\*All CS core courses are offered fall and spring except for CSC 254.

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| **First Year**  **Fall**  MATH 150 Discrete Mathematics  CSC 171 Intro to Computer Science  WRT 105 Primary Writing  Cluster course (1 of 6) | **Spring**  MATH 161 Calculus IA  CSC 172 Data Structures and AlgorithmsP  Cluster course (2 of 6)  Cluster course (3 of 6) |
| **Second Year**  **Fall**  MATH 162 Calculus IIAP  CSC 173 Formal Systems P  Cluster course (4 of 6)  Cluster course (5 of 6) | **Spring**  MATH 165 Linear Algebra w Dif. Equat. P  CSC 252 Computer OrganizationP  Cluster course (6 of 6)  Elective |
| **Third Year**  **Fall**  CSC 254 Programming Lang Design and Imp.P (F)  CSC 262 Computational Intro to StatisticsP (F)  ***OR*** MATH/STAT 201, STAT 213, ECON 230  CSC 2XX Advanced CSC Course  Upper Level Writing #1 | **Spring**  CSC 280 Computer Models and LimitationsP  CSC 242 Artificial IntelligenceP  CSC 2XX Advanced CSC Course  Elective |
| **Fourth Year**  **Fall**  CSC 282 Design & Analysis of Efficient AlgorithmsP  CSC 2XX Advanced CSC Course  Upper Level Writing #2  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. Students must 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, MATH 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 MATH 162: MATH 161 or equivalent

For MATH 165: MATH 143, 162, or 172

For CSC 172: CSC 171 or equivalent, MATH 150

For CSC 173: CSC 172 and MATH 150

For CSC 242: MATH 150 and CSC 172; CSC 173 strongly recommended

For CSC 252: MATH 150 and CSC 172

For CSC 254: CSC 173, and CSC 252 (or equivalent)

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

For CSC 280: CSC 173, MATH 150

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

\*\*All CS core courses are offered fall and spring except for CSC 254.

**Cluster Requirements**

1 cluster in humanities

1 cluster in social sciences