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# **COMPUTER SCIENCE - MINOR**

The department offers a minor in computer science that is available to CU Boulder undergraduates. The minor offers a basic introduction to the field of computer science.

A student may not earn both a bachelor's degree in computer science (or applied computer science) and the minor in computer science from CU Boulder.

For more information, visit the department's Minor in Computer Science (http://www.colorado.edu/cs/current-students/undergraduate-students/minor/) webpage.

## Requirements

A minimum of 21 credit hours of computer science coursework is required for the minor. A minor in computer science can be earned in conjunction with any CU Boulder major degree, except for the BA and BS in computer science and applied computer science majors. For more information, visit the department's Minor in Computer Science (http://www.colorado.edu/cs/current-students/undergraduate-students/minor/) webpage.

#### **Prerequisites/Corequisites**

Calculus courses do not count toward the 21 credit hours required for the computer science minor. Certain computer science courses may have additional prerequisites that are not otherwise required for, or counted toward, the computer science minor.

Students should complete the following before declaring the minor.

- Calculus 1 (MATH 1300, MATH 1310, APPM 1350 or APPM 1345)
- Calculus 2 (MATH 2300 or APPM 1360)
- CSCI 1300 Computer Science 1: Starting Computing (or approved substitute; see options below) – counts toward the 21 credit hours for the minor
- CSCI 2270 Computer Science 2: Data Structures counts toward the 21 credit hours for the minor

#### **Required Courses and Credits**

Code	Title	Credit Hours
<b>Required Courses</b>		
CSCI 1300	Computer Science 1: Starting Computing 1,2	4
or ASEN 1320	Aerospace Computing and Engineering Applications	
or ECEN 1310	C Programming for ECE	
CSCI 2270	Computer Science 2: Data Structures <sup>1</sup>	4
CSCI 2400	Computer Systems <sup>3</sup>	4
or ECEN 3593	Computer Organization	
At least one of the following is required.		4
CSCI 3104	Algorithms	
CSCI 3155	Principles of Programming Languages	
CSCI 3753	Design and Analysis of Operating Systems	

Additional approved upper-division Computer Science electives to reach minimum 21 credit hours, see CS Minor website for list of approved classes.

Total Credit Hours 21

- CSCI 1300 and CSCI 2270 must be completed before declaring the minor.
- <sup>2</sup> ASEN 1320 requires grade of B- or better.
- ECEN 3593 is only 3 credit hours.

#### **Time to Complete**

Students should allow at least six semesters to complete the computer science minor and are advised to start the minor no later than the first semester of their sophomore year. Otherwise, students should plan to complete summer courses or delay graduation.

### **Residency Requirements**

At least three computer science classes must be taken on the CU Boulder campus. At least two of these three must be upper-division courses (3000-level or higher).

#### **Grade Requirements**

A grade point average (GPA) of 2.000 or better is required in the courses used to complete this minor.

A grade of C- or better is required for all prerequisites (except for ASEN 1320, which requires a B- or better) and required core courses for the minor. A grade of D- or better is acceptable for additional computer science electives.