Minor in Computer Science  
(effective fall 2013)

The computer science minor introduces the concepts, tools and techniques that are involved in the programming of computers. The minor prepares students to achieve mastery in several current programming languages. In addition, the student will learn about creating effective user interfaces and how to build applications that are available on the Internet.

**You will be admitted to the minor after the completion of both CSCI 109 and 103L with a grade of B or better.**

<table>
<thead>
<tr>
<th>REQUIRED COURSES</th>
<th>UNITS</th>
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<tbody>
<tr>
<td><strong>Lower division (18 units)</strong></td>
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<tr>
<td>CSCI 109 Introduction to Computing</td>
<td>3</td>
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<tr>
<td>CSCI 103L Introduction to Programming</td>
<td>3</td>
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<tr>
<td>CSCI 104L Data Structures and Object-Oriented Design</td>
<td>4</td>
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<tr>
<td>CSCI 170 Discrete Methods in Computer Science</td>
<td>4</td>
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<td>CSCI 201L Principles of Software Development</td>
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<td>or</td>
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<tr>
<td>CSCI 270 Introduction to Algorithms and Theory of Computing</td>
<td>4</td>
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**ELECTIVES**

12 units selected from the following courses*:

- CSCI 351 Programming and Multimedia on the World Wide Web 3
- CSCI 445 Introduction to Robotics 4
- CSCI 360 Introduction to Artificial Intelligence 4
- CSCI 477ab Design and Construction of Large Software Systems 2-2
- CSCI 420 Computer Graphics 4
- CSCI 485 File and Database Management 3
- CSCI 499 Special Topics 2-4

Total: 30 units

*Any 300/400 level CSCI course is eligible to count as an elective.

**Sample Program:**

**Semester 1**
- CSCI 109
- CSCI 103

**Semester 2**
- CSCI 170
- CSCI 104

**Semester 3**
- CSCI 201 OR 270
- TECH ELECTIVE

**Semester 4**
- TECH ELECTIVE
- TECH ELECTIVE

**Semester 5**
- TECH ELECTIVE

**Note:** If you only have room for 1 CS course a semester, you may take the courses in this order: 109-103-170-104- 201/270 - TECH ELECTIVES