COMPUTER SCIENCE MINOR

Also available at OSU-Cascades and Ecampus.

Computing has become pervasive, touching nearly every aspect of our lives. A minor in Computer Science can open up opportunities for employment in the software development industry, but also in many areas including healthcare, business, science, medicine, graphics, utilities and education. Courses will teach theory, problem-solving skills, and programming.

Minor Code: 249

To earn the minor upon graduation, students must meet all of the following:

1. Earn a C in each of their minor courses (all courses must be taken A–F grading)
2. Have a minimum 2.25 GPA in all required minor course work (36 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS 161</td>
<td>INTRODUCTION TO COMPUTER SCIENCE I</td>
<td>4</td>
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<tr>
<td>CS 162</td>
<td>INTRODUCTION TO COMPUTER SCIENCE II</td>
<td>4</td>
</tr>
<tr>
<td>CS 261</td>
<td>DATA STRUCTURES</td>
<td>4</td>
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<tr>
<td>CS 271</td>
<td>COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE</td>
<td>4</td>
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<tr>
<td>MTH 231</td>
<td>ELEMENTS OF DISCRETE MATHEMATICS</td>
<td>4</td>
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<tr>
<td>or CS 225</td>
<td>DISCRETE STRUCTURES IN COMPUTER SCIENCE</td>
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Students may declare the Computer Science minor after completing the required lower-division courses with a GPA of 2.25 or higher and after becoming eligible to take 300-level courses in their major. Please speak with an EECS advisor to declare the minor.

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<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS 362</td>
<td>SOFTWARE ENGINEERING II</td>
<td>4</td>
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Select 12 credits of the following recommended (but not limited to) electives:

- CS 344 OPERATING SYSTEMS I
- CS 352 INTRODUCTION TO USABILITY ENGINEERING
- CS 361 SOFTWARE ENGINEERING I
- CS 440 DATABASE MANAGEMENT SYSTEMS
- CS 475 INTRODUCTION TO PARALLEL PROGRAMMING
- CS 496 MOBILE AND CLOUD SOFTWARE DEVELOPMENT

The following cannot be used for minor requirements:

- CS 391 *SOCIAL AND ETHICAL ISSUES IN COMPUTER SCIENCE
- CS 395 WEBSITE MULTIMEDIA
- CS 401 RESEARCH
- CS 405 READING AND CONFERENCE
- CS 407 SEMINAR
- CS 410 OCCUPATIONAL INTERNSHIP
- CS 461 *SENIOR SOFTWARE ENGINEERING PROJECT I
- CS 462 *SENIOR SOFTWARE ENGINEERING PROJECT II

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1. Baccalaureate Core Course (BCC)
2. Writing Intensive Course (WIC)
3. Electrical and Computer Engineering (ECE) students who wish to minor in Computer Science must take ECE 271 and ECE 272 instead of CS 271
4. Electrical and Computer Engineering (ECE) students will take ECE 375 and CS 372/ECE 372 plus 4 credits of upper-division computer science courses
5. Electrical and Computer Engineering (ECE) students can take the following courses that will count both as an ECE restrictive elective for the ECE major and as well as towards the CS minor: CS 344, CS 325, CS 331, CS 444, CS 434, CS 450, CS 472, CS 476/ECE 476

Courses available to Ecampus students earning the minor

Other upper-division courses are acceptable. Please speak with an advisor about which courses might create the best path for your goals.

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