MINOR IN COMPUTER SCIENCE

This minor is available to students who have a major other than Computer Science, Information Systems or Information Technology. All Computer Science minors are required to take 21 units in Computer Science to be completed with a grade equivalent of 2.00 or higher. At least half must be taken at Towson University. Students cannot major in Computer Information Systems and minor in Computer Science.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>COSC 236</td>
<td>INTRODUCTION TO COMPUTER SCIENCE I</td>
<td>4</td>
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<tr>
<td>COSC 237</td>
<td>INTRODUCTION TO COMPUTER SCIENCE II</td>
<td>4</td>
</tr>
<tr>
<td>COSC 336</td>
<td>DATA STRUCTURES AND ALGORITHM ANALYSIS</td>
<td>4</td>
</tr>
</tbody>
</table>

**Elective COSC Courses**

Select at least three of the following: 9

- COSC 310 SPECIAL TOPICS: ADVANCED PROGRAMMING
- COSC 350 DATA COMMUNICATIONS AND NETWORKING
- COSC 412 SOFTWARE ENGINEERING
- COSC 431 SELECTED TOPICS COMPUTER SCIENCE
- COSC 436 OBJECT-ORIENTED DESIGN & PROGRAMMING
- COSC 439 OPERATING SYSTEMS
- COSC 440 OPERATING SYSTEMS SECURITY
- COSC 450 NETWORK SECURITY
- COSC 455 PROGRAMMING LANGUAGES: DESIGN & IMPLEMENTATION
- COSC 457 DATABASE MNGT SYS
- COSC 458 APPLICATION SOFTWARE SECURITY
- COSC 459 COMPUTER SIMULATION & MODELING
- COSC 461 ARTIFICIAL INTELLIGENCE
- COSC 471 COMPUTER GRAPHICS
- COSC 483 DESIGN & ANALYSIS ALGORITHMS
- COSC 484 WEB-BASED PROGRAM
- COSC 495 INDEPENDENT STUDY

Total Units 21

The 9 units of elective courses must be upper-division courses and may include one approved computer-related course from outside the department.

1 Has additional prerequisites other than COSC 336.