Computer Science, Minor

Having a Computer Science Minor can enhance your employment opportunities. Coursework consists of three programming courses, one introductory theory course and one CS elective course. Many of our CS minors come from related fields, such as Engineering, IST, and Math.

Undergraduate Contact Information:

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Minor Requirements

Students desiring a minor in Computer Science are required to satisfy the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIS 1068</td>
<td>Program Design and Abstraction</td>
<td>4</td>
</tr>
<tr>
<td>or CIS 1968</td>
<td>Honors Program Design and Abstraction</td>
<td></td>
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<tr>
<td>CIS 1166</td>
<td>Mathematical Concepts in Computing I</td>
<td>4</td>
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<tr>
<td>or CIS 1966</td>
<td>Honors Mathematical Concepts in Computing I</td>
<td></td>
</tr>
<tr>
<td>CIS 2107</td>
<td>Computer Systems and Low-Level Programming</td>
<td>4</td>
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<tr>
<td>CIS 2168</td>
<td>Data Structures</td>
<td>4</td>
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<td></td>
<td>Select one of the following:</td>
<td>3-4</td>
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<tr>
<td>CIS 2033</td>
<td>Computational Probability and Statistics</td>
<td></td>
</tr>
<tr>
<td>CIS 2082</td>
<td>Independent Research I</td>
<td></td>
</tr>
<tr>
<td>CIS 2166</td>
<td>Mathematical Concepts in Computing II</td>
<td></td>
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<tr>
<td>CIS 3203</td>
<td>Introduction to Artificial Intelligence</td>
<td></td>
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<tr>
<td>CIS 3207</td>
<td>Introduction to Systems Programming and Operating Systems</td>
<td></td>
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<tr>
<td>CIS 3211</td>
<td>Automata, Computability, and Languages</td>
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<tr>
<td>CIS 3219</td>
<td>Computer Graphics and Image Processing</td>
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<tr>
<td>CIS 3308</td>
<td>Web Application Programming</td>
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<td>CIS 3319</td>
<td>Wireless Networks and Security</td>
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<tr>
<td>CIS 4319</td>
<td>Computer Networks and Communications</td>
<td></td>
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<tr>
<td>CIS 4331</td>
<td>Principles of Database Systems</td>
<td></td>
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<tr>
<td>CIS 4350</td>
<td>Seminar on Topics in Computer Science</td>
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<tr>
<td>CIS 4360</td>
<td>Seminar on Topics in Computer Science</td>
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</tbody>
</table>

Total Credit Hours 19-20

Before you can begin taking CS minor courses, you must have taken (or placed out of) pre-calculus (MATH 1022). Although the CS minor can be completed in 3 semesters, it is best to allocate at least 4 semesters.

Residency Requirements: At least 3 courses required for the minor must be completed at Temple. At least 3 CIS courses must be completed at Temple.