Computer Science Minor

Overview

Having a Minor in Computer Science (CS) can enhance your employment opportunities. Offered by the Department of Computer and Information Sciences, the CS minor's coursework consists of three programming courses, one introductory theory course and one CS elective course. Prior to starting the CS minor's courses, students must take (or place out of) precalculus and an introductory programming course. Many of our CS minors come from related fields, such as Engineering, Information Science and Technology, and Math. Students on both Main Campus and Temple University Japan Campus may declare this minor.

Campus Location: Main and Japan

Undergraduate Contact Information

Main Campus
Jamie Payton, Chair
Science, Education and Research Center, Room 304
215-204-8450

Gene Kwatny, Vice Chair
Science, Education and Research Center, Room 304
215-204-8450

Sally Kyvernitis, Faculty Advisor
Science, Education and Research Center, Room 330
215-204-2030
sallyk@temple.edu

Temple Japan Campus
Hani Karam, PhD, Computer Science Coordinator
hkaram@tuj.temple.edu

Minor Requirements

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Select one of the following: 2</td>
<td></td>
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<tr>
<td>CIS 1051 or CIS 1951</td>
<td>Introduction to Problem Solving and Programming in Python</td>
<td>4</td>
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<tr>
<td>CIS 1057</td>
<td>Computer Programming in C</td>
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<tr>
<td>CIS 1068 or CIS 1968</td>
<td>Program Design and Abstraction</td>
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<tr>
<td>CIS 1166 or CIS 1966</td>
<td>Mathematical Concepts in Computing I</td>
<td>4</td>
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<td>Select one of the following: 3</td>
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<tr>
<td>CIS 2033</td>
<td>Computational Probability and Statistics</td>
<td>3-4</td>
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<tr>
<td>CIS 2082</td>
<td>Independent Research I</td>
<td></td>
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<tr>
<td>CIS 2166</td>
<td>Mathematical Concepts in Computing II</td>
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<td>CIS 3203</td>
<td>Introduction to Artificial Intelligence</td>
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<tr>
<td>CIS 3207</td>
<td>Introduction to Systems Programming and Operating Systems</td>
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</table>
CIS 3319  Wireless Networks and Security
CIS 3441  Software Security
CIS 3513  Introduction to iOS Application Development
CIS 3515  Introduction to Mobile Application Development
CIS 3603  User Experience Design
CIS 3605  Introduction to Digital Forensics
CIS 3715  Principles of Data Science
CIS 4319  Computer Networks and Communications
CIS 4331  Principles of Database Systems
CIS 4350  Seminar on Topics in Computer Science
CIS 4360  Seminar on Topics in Computer Science

Total Credit Hours 23-24

1
All of the listed CIS courses have Math course prerequisites of MATH 1022 Precalculus or higher.

2
Students may earn placement credit for this introductory programming course requirement. Please see the Computer Science faculty advisor for more information.

3
Some of the listed electives have prerequisites in addition to the core requirements.

Although the Computer Science minor can be completed in three semesters, it is best to allocate at least four semesters.

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