Computer Science Minor

Banner Code: CS

Academic Advising
Phone: 703-993-1530
Email: csinfo@gmu.edu
Website: cs.gmu.edu/current-students/undergraduates/minors/

Admissions & Policies

Admissions
Declaring a CS Minor
Students requesting a Computer Science Minor must have completed CS 112 Introduction to Computer Programming (Mason Core) (http://catalog.gmu.edu/mason-core/) or CS 211 Object-Oriented Programming with a grade of B or better.

Policies
Grades
No more than 3 credits of D grades may be used to satisfy requirements for the Computer Science Minor.

Program Requirements
The minor in computer science requires completion of at least 19 credits. Students should pay careful attention to prerequisites when selecting courses. Eight credits of coursework must be unique to the minor and students must complete all coursework with a minimum GPA of 2.00.

For policies governing all minors, see AP.5.3.4 Minors (http://catalog.gmu.edu/policies/academic/undergraduate-policies/#ap-5-3-4).

Requirements

Minor Requirements
Total credits: 19-20

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 112</td>
<td>Introduction to Computer Programming</td>
<td>4</td>
</tr>
<tr>
<td>or CS 108</td>
<td>&amp; CS 109 Intro to Computer Programming, Part A and Intro to Computer Programming, Part B</td>
<td>3</td>
</tr>
<tr>
<td>CS 211</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 310</td>
<td>Data Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 10

Additional Computer Science Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three from the following:</td>
<td>9-10</td>
<td></td>
</tr>
<tr>
<td>CS 222</td>
<td>Computer Programming for Engineers</td>
<td></td>
</tr>
<tr>
<td>or CS 262</td>
<td>Introduction to Low-Level Programming</td>
<td></td>
</tr>
</tbody>
</table>

CS 306 Synthesis of Ethics and Law for the Computing Professional (Mason Core) (http://catalog.gmu.edu/mason-core/)
CS 321 Software Engineering
CS 325 Introduction to Game Design
CS 330 Formal Methods and Models
CS 367 Computer Systems and Programming
CS 450 Database Concepts
CS 451 Computer Graphics
CS 455 Computer Communications and Networking
CS 463 Comparative Programming Languages
CS 465 Computer Systems Architecture
CS 468 Secure Programming and Systems
CS 471 Operating Systems
CS 480 Introduction to Artificial Intelligence
CS 483 Analysis of Algorithms
CS 484 Data Mining
SWE 419 Object-Oriented Software Design and Implementation
or CS 332 Object-Oriented Software Design and Implementation

Total Credits 9-10