MASTER OF SCIENCE IN THE FIELD OF COMPUTER SCIENCE

The Department of Computer Science offers a graduate program leading to the Master of Science in computer science. After completing core requirements, students select electives in topics such as computer security and information assurance, database and information retrieval systems, software engineering and systems, biomedical computing, digital media and computer graphics, networking and mobile computing, computer architecture, pervasive computing and embedded systems, machine intelligence, robotics, and algorithms and theory.

Both thesis and non-thesis options are available. In addition to the entrance requirements, students are expected to be adequately prepared in the basic physical sciences and in mathematics (one year each of university laboratory science and of math beyond precalculus), and to have taken a course in computer programming using a structured language and CSCI 1112, CSCI 1311, and CSCI 2461 or their equivalents.

Graduate students are required to attend several department colloquia each semester. These are intended to broaden the student’s professional outlook and to encourage interaction with the faculty.

Specific admission requirements are shown on the Graduate Program Finder. (http://www.gwu.edu/all-graduate-programs)

Visit the program website (http://www.cs.seas.gwu.edu/master-science-computer-science) for additional information.

REQUIREMENTS

The following requirements must be fulfilled: 30 credits, including 9 credits in required courses and 21 credits in electives.

**Required**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 6212</td>
<td>Design and Analysis of Algorithms</td>
</tr>
<tr>
<td>CSCI 6221</td>
<td>Advanced Software Paradigms</td>
</tr>
<tr>
<td>CSCI 6461</td>
<td>Computer System Architecture</td>
</tr>
</tbody>
</table>

**Electives**

21 credits determined in consultation with the advisor. As a general rule, no more than two courses may be taken outside of those offered by the department.

At least 24 of the 30 credits required for this program must be at the 6000 level.