MASTER OF SCIENCE IN THE FIELD OF APPLIED COMPUTER SCIENCE (STEM)

The master of science in applied computer science program is designed to be accessible to those without a significant background in computing or mathematics who are interested in practical, hands-on skills for careers in software and information technology. The program focuses on core technical areas, such as databases and networks, for well-established software and information technology careers. Students with a bachelor’s degree in any discipline are welcome to apply. Applicants must demonstrate completion of undergraduate-level coursework or proficiency in basic computer programing and software development as well as data structures and data structure applications. Questions regarding admissions requirements should be emailed to engineering@gwu.edu.

This is a STEM designated program.

Visit the program website (https://cs.engineering.gwu.edu/master-science-applied-computer-science/) for additional information.

ADMISSIONS

Admission deadlines:
- Fall – July 1 (Gateway to CS program participants may apply by August 15 for a fall semester start)
- Spring – December 1

Standardized test scores: Applicants are not required to submit GRE scores. Applicants who have not received a bachelor’s, master’s, or doctoral degree from a college or university in the United States or from an institution located in a country in which English is the official language, may be required to submit English language test scores; please follow the link for more information: https://graduate.admissions.gwu.edu/international-student-application-requirements/.

Recommendations required: Applicants are required to submit two letters of recommendation that attest to your abilities, maturity, determination, work ethic, independence, and capacity for studying online. Gateway to CS program participants do not have to submit any letters of recommendation.

Prior academic records: Transcripts are required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Unofficial transcripts from all colleges and universities attended must be uploaded to your online application. Official transcripts are required only of applicants who are offered admission.

REQUIREMENTS

The following requirements must be fulfilled: One 3-credit required course and 27 credits in elective courses.

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>Required</td>
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<tr>
<td>CSCI 6003</td>
<td>Introduction to Software Design and Engineering</td>
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<tr>
<td>Electives</td>
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<td>27 credits in elective courses approved by the advisor. Suggested elective courses are listed below; other graduate-level CSCI courses also can be approved. The advisor can approve up to 6 credits of coursework to be taken outside the department if a compelling case for doing so can be made.</td>
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Suggested elective options
- CSCI 4237 Software Design for Handheld Devices
- CSCI 6004 Introduction to Web Development
- CSCI 6231 Software Engineering
- CSCI 6114 Introduction to Computer Systems and Systems Programming
- CSCI 6116 Advanced Application Development
- CSCI 6418 Unix Systems Administration
- CSCI 6431 Computer Networks
CSCI 6441  Database Management Systems
CSCI 6451  Information Retrieval Systems
CSCI 6532  Information Policy
CSCI 6561  Design of Human–Computer Interface
CSCI 6562  Design of Interactive Multimedia

*Students cannot receive credit toward the degree for both CSCI 6011 and CSCI 6114.