

Computer Science (M.S.)

Master of Science

<http://cs.gmu.edu>

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Program Overview

Mason Engineering offers a Master of Science in Computer Science through its Department of Computer Science.

The MS in Computer Science Program gives students the opportunity to combine a sound foundation in computer science with concentrated knowledge in the latest developments in particular areas. Our faculty has expertise in many areas of computer science, including algorithms and theory, artificial intelligence, computer networks, databases, data mining, computer graphics and visual computing, information security and assurance, mobile computing, wireless networks, distributed systems, programming languages, real-time systems, robotics, software engineering, and computer vision.

The Department of Computer Science offers additional degrees and certificates that are of interest to MS students. Graduate certificates in information security and assurance and software engineering are available. Course work toward the certificates can be used for credit toward the MS in Computer Science; however, the certificates also may be pursued concurrently with any of the graduate degree programs in the Volgenau School. Students also may take courses through the Commonwealth Graduate Engineering Program.

Program Requirements

In addition to meeting general university requirements, completion of this program requires 30 credits of graduate courses including a single core course, Analysis of Algorithms, and Computer Science courses, which are grouped in the following areas:

- Artificial Intelligence and Databases
- Programming Languages and Software Engineering
- Systems and Networks
- Theoretical Computer Science
- Visual Computing

Related Programs:

- Computer Science, PhD
 - Information Security and Assurance, MS
 - Information Systems, MS
 - Software Engineering, MS
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Admission Requirements

In addition to meeting general university admissions requirements, applicants must hold a baccalaureate degree, preferably with a major in a technical field such as computer science, mathematics, physics, engineering, or information systems. Necessary background course work includes data structures, formal methods and models, computer systems architecture, and assembly language and systems programming, or the equivalent, one year of mathematics beyond first-year calculus, including a substantial course in discrete mathematics. An undergraduate GPA of 3.00 or higher is typically required. Admission is competitive among students who fulfill admission requirements for graduate study.

Required application materials include:

- Online application and non-refundable fee
- Transcripts showing all post-secondary study
- Professional and Educational Goals Statement
- Two letters of recommendation from professors or senior officials at place of employment
- Self-Evaluation
- GRE scores (for applicants who have not earned at least a Bachelor's degree from a U.S. institution)
- Resume

Additional application materials, including English proficiency examination scores (e.g., TOEFL, IELTS), are required if the applicant holds a degree from an international institution and/or requires an F-1 or J-1 visa. Visit <http://admissions.gmu.edu/grad/> for details.

Special admission programs are available for Volgenau School students and alumni.

Visit our website for details: <http://cs.gmu.edu>

Apply online: <http://admissions.gmu.edu/grad/applynow/>