

Master of Science (MS) Computer Science

Degree Program

Requires 30 hours of course work. Students must satisfy all core requirements and chose one of the options.

STEM Designation: Yes [CIP Code 11.1003 (Computer and Information Systems Security/Information Assurance)]

Core requirements: Cmp Sci 4250 programming languages, 5130 Advanced Data Structures and Algorithms, 5500 Software Engineering, and a thesis or a research course.

Traditional option: pass 4760 Operating Systems and 5700 Computer Systems.

Certificate option: complete one of the graduate certificates. <http://umsl.edu/go/ComputerScienceGrad>

Application Requirements:

1. Application
 - a. <http://umsl.edu/go/Apply-Now>
2. Official transcripts from all universities attended
 - a. Applicants must have completed a baccalaureate in Computer Science or a related discipline before beginning the master's program.
 - b. Transcripts must show the following coursework, or students must complete the work prior to starting their MS degree:
 - i. C/C++ programming, object oriented programming (C++ or Java), data structures, computer architecture/organization, algorithms design and analysis, command line interactions, Linux/Unix concepts and scripting
 - ii. One semester of calculus, discrete mathematics, and probability/statistics.
 - c. Alternatively reference letters and/or a statement of purpose can address other sources of similar knowledge. Students lacking some background may be admitted but will have to complete additional courses or otherwise demonstrate proficiency.
3. Entrance examinations
 - a. The Graduate Record Examination (GRE) General Test is required only to apply for an assistantship (see <http://www.gre.org/ttindex.html>).
 - b. International students are required to document English proficiency by providing scores from an internationally accepted standardized examination before a decision is made on admission.
4. Grade Point Average
 - a. Minimum of 3.00 on 4.0 scale. Students whose overall GPA is 2.75 to 2.99 may be admitted under some circumstances. With additional support such as letters of reference, experience, GRE, etc. Students with GPA below 2.75 with extensive related experience may also be considered.

Application Deadlines

Applications submitted after the deadlines will be considered for admissions on a rolling basis until the beginning of the semester.

Domestic applicants

Fall admission: July 1

Spring admission: December 1

Summer admission: May 1

International applicants

Fall semester: June 1

Spring Semester: October 1

Application Fee

\$50 for domestic applicants; \$40 for international applicants

Graduate Program Director

Dr. Sanjiv Bhatia

(314) 516-6520

sanjiv@umsl.edu