

Master of Science (MS) - Computer Science

Program Requirements:

A minimum of 30 credit hours of coursework in Computer Science (CMP SCI) are required for the degree program.

Additional options for fulfilling credit requirements include:

- Up to 10 credit hours can be transferred into the program
- Up to 6 credit hours of related coursework can be completed outside of CMP SCI, based on the student's interest with permission of the Graduate Director
- Students with relevant prior full-time training and/or experience of a minimum of one year can apply for up to 6 proficiency transfer credit hours in CMP SCI 5991

Application Requirements:

1. [Online Graduate Application](#)
2. Applicants will be evaluated for proficiency in the following foundational areas.
 - a. Computer Science
 1. At least two different modern general-purpose programming languages.
 2. Object-oriented programming, concepts, and terminology
 3. Basic dynamic data structures such as strings, lists, stacks, queues, and trees
 4. Design and analysis of algorithms
 5. Mathematical foundation for computer science (discrete structures) with topics such as sets, logic, functions, and relations
 - b. Mathematics
 1. A calculus course
 2. A probability and statistics course

A Computer Science degree is not required for admission to the program, but applicants must demonstrate proficiency in the foundational areas. This can be prior coursework on transcripts or non-academic training/relevant experience. Applicants must detail these items in the Statement of Purpose/Intent.

- If a course on an applicant's transcript covers a foundational area but has a different title, additional documentation such as an official syllabus may be submitted.

Applicants who cannot adequately demonstrate proficiency may be admitted on a restricted status, which must be satisfied before starting the program, during the first semester, or through additional evidence of competency or assessment.

- Prerequisite courses taken to fulfill these restrictions do not count toward the program's 30 required credit hours.

3. Statement of Purpose: A 1-2 page essay that explains your interest in the program and includes any necessary evidence regarding the foundational Areas.
4. Official transcripts from all universities attended. A Bachelor's degree is required.
5. Entrance examinations:
 - a. International Students must document English proficiency by providing scores from an internationally accepted standardized examination. See [International Admissions](#) for more information.
6. **Minimum GPA of 3.0 on 4.0 scale**
 - a. Applicants whose overall GPA is 2.75 to 2.99 may be admitted under some circumstances by providing a Statement of Purpose/Intent that indicates additional support such as letters of reference, experience, GRE, etc.
 - b. Applicants with GPA below 2.75 will only be considered if they submit a Statement of Purpose/Intent that details extensive related experience.

Application Deadlines:

Domestic Applicants: Fall - July 1 ♦ Spring - December 1 ♦ Summer - May 1

International Applicants: Fall – May 1 ♦ Spring - October 1

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

Application Fees:

\$50 for domestic applicants

\$40 for international applicants

Graduate Program Director:

Contact Dr. Badri Adhikari by email at adhikarib@umsl.edu or by phone (314) 516-7393