

Doctor of Philosophy

Mathematical and Computational Sciences

Degree Program

A minimum of 60 credit hours is required, including

☐ Computer Science: At least 45 credit hours must be in courses numbered 5000 or above. Dissertation Research must account for 9-15 credit hours

Qualifying Examination:

1. Take a written examination, attempted no later than after completing 12 credit hours of study in the Ph.D. program.
☐ Computer Science option: Examination covers Operating Systems (Cmp Sci 4760), Advanced Data Structures and Algorithms (Cmp Sci 5130) plus two topics from a list of courses
2. After passing Step 1, select one of the following:
 1. Pass a written examination in an approved area of the student's interest.
 2. Write a survey paper in a specialized area under the direction of a member of the graduate faculty and defend it in an oral examination.

Dissertation

All students must defend orally a written dissertation proposal to their dissertation committee. A dissertation embodying the results of original research must be accepted by the Department of Computer Science and the Graduate School.

Emphasis Area

- ☐ Computer Science

Program Website: <http://www.umsi.edu/cmpsci/graduate-studies/phd-cs.html>

Application Requirements

1. Graduate School Application <http://umsi.edu/go/Apply-Now>
2. Two Letters of Recommendation
 - a. Letters of recommendations from persons qualified to evaluate the student's academic ability or professional experience are required.
3. Official transcripts from all universities attended
 - a. Applicants must have completed at least a baccalaureate degree before beginning the program.
4. Resume/CV
5. Entrance examinations
 - a. Graduate Record Examination (GRE) scores recommended but not required (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.
6. Grade Point Average
 - a. Minimum of 3.0 on 4.0 scale

UMSL | Graduate School

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: May 1

Spring Semester: October 1

Application Fee

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

Computer Science Graduate Program Director

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