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MS degree in Software Engineering
Offered in Rochester

Accepting applications for Fall 2008

Since 1985, with more than 2,200 graduates, Graduate Programs in Software (GPS) at the University of St. Thomas continues to provide excellence in graduate software education.

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UNIVERSITY of ST. THOMAS

MINNESOTA

Information regarding the MS degree in Software Engineering in Rochester

Rochester classes for the MS degree in Software Engineering (MS in SE) will be offered on Saturdays, fall semester, September 3 - December 13, 2008 with a break for Thanksgiving. Spring semester is February 2 - May 16, 2009 with a break at Easter. Classes will be held in Rochester, MN from 9 a.m. to 3:30 p.m. Parking is free. We will offer two courses on alternating Saturdays for 14 weeks. Each course is 3 credits. We anticipate completion of the degree in 7 semesters. The first two courses are SEIS 610 Software Engineering and SEIS 630 Database Management Systems and Design.

Below are the MS in SE curriculum and application requirements. The application form can be downloaded at <http://www.stthomas.edu/gradsoftware/admissions/apply/files/app.pdf>. Please write "ROCHESTER" on top of the application form. You may fax your application to 651-962-5543.

Tuition per credit for 2008-2009 is \$720.00. The technology fee is \$37.50 per semester if registered for less than 6 credits and \$75.00 per semester if registered for 6 credits or more.

The Rochester MS in SE is subject to sufficient enrollment.

Please call 651-962-5500 or toll-free 1-800-328-6819, Ext. 2-5500, or e-mail gradsoftware@stthomas.edu with any questions you may have.

MASTER OF SCIENCE DEGREE IN SOFTWARE ENGINEERING (MS in SE)

Scientific, technical and sophisticated commercial systems developers require education in what has come to be called "software engineering," which encompasses the utilization of sophisticated development tools. This domain focuses on technique-oriented computer science, computational systems software development, and applied research. It emphasizes the quantitative and scientific characteristics in software development. Hardware/software issues, embedded control in hardware, and large software/hardware systems development are all part of this emphasis.

This program would be of interest to persons in computer science, computational science, systems software development, knowledge-based systems, database development, distributed database development, telecommunications, networking, multimedia software development, and neural networks. Students completing this degree almost always will be working in organizations where the MS is the recognized degree, and where most of their colleagues will also hold an MS degree in engineering or a scientific discipline.

Entrance Requirements

1. Bachelor's degree (or equivalent) in any discipline from an accredited educational institution, and two years of technical or systems software development experience, or completion of the Certification in Information Systems.
2. For students with no industrial software development experience, acceptable bachelor's degrees are computer science, computer engineering, electrical engineering, software engineering, or a scientific or technological area; and programming in at least two higher-level languages.
3. Official transcript(s) from [all](#) universities/colleges attended bearing an institutional seal sent directly to the Graduate Programs in Software (GPS) office by the issuing institution.
4. For applicants whose native language is not English, a TOEFL (550 or above on the written version, 213 or above on the computer-based version) or MELAB (85 or above) score is required. TOEFL or MELAB scores more than two years old are not accepted. Exam bulletins are available from International Admissions at 651-962-6450.
5. An essay stating why the applicant wishes to work toward a master's degree.
6. A grade point average (GPA) of 2.7 or above for undergraduate education.
7. Detailed resume which includes all work experience, job description, and programming languages used.
8. A listing of computing-related courses not appearing on transcripts.

Degree Requirements

To complete the requirements for the Master of Science degree in software engineering, students must successfully complete 14 courses (42 graduate semester credits) and maintain a GPA of 2.7.

Required Courses

SEIS 601 = [CSIS 512] Foundations of Software Development (*waived for appropriate prior programming experience*)

SEIS 605 = [CSIS 500] Technical Communications (Oral, Written, Visual)

SEIS 610 = [CSIS 510] Software Engineering

SEIS 625 = [CSIS 600] Software Project Management

SEIS 626 = [CSIS 605] Software Quality Assurance/Quality Control

SEIS 630 = [CSIS 530] Database Management Systems and Design

SEIS 635 = [CSIS 543] Object-Oriented Application Analysis and Design

SEIS 640 = [CSIS 610] Operating Systems Design

SEIS 645 = [CSIS 625] Computer and Network Communications

- Electives will be chosen by the cohort class.
- List of required courses subject to change based on the background of the cohort participants.

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Note: We are considering expanding the [Master of Science degree in Software Management](#) (MS in SM) program from our Saint Paul campus to Rochester, MN. The MS in SM program prepares individuals for leadership roles in software business management. Please contact us if you are interested.