



We Want Great Things for You

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

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CSC-4130 Java, CSC-4410 Object-Oriented Programming, and CSC-4430 Algorithms and Data Structures. The department may add/change courses as necessary.

Degree Requirements

The program requires 30 credits of planned study.

Software Engineering

The focus on Software Engineering provides specialized knowledge and experience in applying systematic, disciplined, quantifiable approach to software development, operation, and maintenance. Software Engineering is an engineering discipline, which is concerned with all aspects of software production including analysis, design, development, testing and support of software systems.

Course Requirements:

1. Students should take the following seven courses:
CSC 5150 Software Engineering
CSC 5500 Software Quality Engineering
CSC 5520 Architectures for Software Systems
CSC 5550 Software Requirements Engineering
CSC 5570 Software Systems Project Management
CSC 5700 Applied Cryptology & Network Security
CSC 5930 Graduate Design Project

The Graduate Design Project must be taken during the last semester(s) of study. This course requires students to design and create a project in a field of Software Engineering.

2. The remaining courses (maximum three) should be appropriate graduate level CSC courses, or taken from the Department Recommended List of Courses.

Master of Science in Computer Science

The Master of Science in Computer Science program at the University of Detroit Mercy is a 30 credit hour program with a focus on Software Engineering. It is designed to:

- Produce graduates that are ready to work in industry, government, health, and education. The graduates will have both practical and theoretical educational experience in Computer Science and Software Engineering;
- Provide computing educational experience that is rich in state-of-the-art laboratories, industry-related projects, and practical design skills, which highlight teamwork, computer-based problem solving, communication skills, and ethical values needed for computing professions and software engineers;
- Prepare students to pursue a Doctorate degree in computer science, and software engineering through a motivating, extensive, and state-of-the-art educational experience.

Admission Requirements

In order to be admitted to the program, the applicant:

1. Must hold a bachelor's degree (or equivalent) with a minimum GPA 3.0. (GPA of 2.7 or higher may be accepted with the addition of a few pre-requisite courses.)
2. Must have knowledge of, a modern programming language (such as C++ or Java), Data Structures and Algorithms, Machine Organization, Discrete Mathematics, and Single Variable Calculus.
3. Students will make up for programming deficiencies in undergraduate preparation by taking one or more of the following prerequisite courses or their equivalent;

For further information, please write, call or e-mail:

Dr. Katherine Snyder

or

Theresa Carson, Graduate Admissions Counselor
carsonta@udmercy.edu (313) 993-3309

International Students

Steven Coddington, International Admissions Counselor
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or visit:

www.udmercy.edu/apply/international_students/