WHY SCRANTON?

A University of Scranton MSSE

CONVENIENT PROGRAMMING.

Jesuit values. Successful outcomes. You’ll find all of this – and more – when you choose The University of Scranton for your Master of Science in software engineering (MSSE) studies. Our dedicated faculty will work alongside you as you pursue a higher level of education at The University of Scranton.

JESUIT VALUES

• A strong emphasis on ethics, social justice & environmental responsibility
• Corporate social responsibility
• Develop well-rounded & thoughtful contributors to society
• Dedication to excellence in education & care for the entire person
• Highlighting global perspectives

AT A GLANCE

Designed to develop software professionals who are knowledgeable about and skilled in the application of principles related to the development and maintenance of computer software.

REAL WORLD RESULTS

Filling a Growing Need

Graduates of the MSSE program have been hired by companies such as IBM, Los Alamos National Lab, Tyco Electronics, Compaq, MetLife, Prudential, GTE and Alltel.

TECHNOLOGY

Students have access to a number of computing platforms, including MS Windows, Linux, and FreeBSD. These resources are networked and accessible from both on and off campus. The Computing Science Department is a subscriber of the Microsoft Imagine program, which offers students a wide range of Microsoft development tools and software such as Visual Studio, .NET framework, SQL Server, and Windows operating systems. Open source systems and tools are extensively used in the program, including Oracle’s Java, PHP, Linux, FreeBSD, MySQL, PostgreSQL, Apache and Eclipse.

ONE-TO-ONE LEARNING

Faculty Engagement

PERSONAL ATTENTION

• Learn from an incomparable faculty who will challenge and inspire you.
• Learn in small classes with active interactions between the instructor and peers.
• Work with a faculty mentor who will assist with your personal academic planning throughout the program.
## Getting Recognized

### Results, reputation & ethics drive our education.

**Top 10 “Best Colleges” for 25 consecutive years**  
— U.S. News & World Report

**Among the “10 top master’s universities in the North”**  
— U.S. News & World Report

## Admission

### Admission Criteria for Acceptance

Admission to the Chemistry programs is based on a combination of indicators including previous academic performance with the completion of a bachelor’s degree and three professional letters of recommendation.

**English Proficiency** can be submitted as one of the following:

- Minimum TOEFL 80 (internet-based test)
- Minimum IELTS overall band score of 6.5
- Pearson Test of English (PTE) Academic score of 53
- Successful completion at a participating English language center in the USA
- Duolingo (score of at least 105)

## Fundamentals Courses

### (12 credits required):

- **SE 500**: Mathematics for Software Engineering
- **SE 501**: Introduction to Software Development
- **SE 504**: Formal Methods & Models
- **SE 507**: Requirements Analysis & Software Specification

## Advanced Courses

### (18 credits required):

- **SE 510**: Principles & Applications of Software Design
- **SE 518**: Software Security
- **SE 524**: Software Project Management

Three elective courses (9 credits)

## Thesis Project

### (6 credits required):

- **SE 598**: Project Analysis & Design
- **SE 599**: Project Implementation & Evaluation

## WHAT NEXT? How to Proceed from Here

### Apply Now

We welcome applications on a rolling basis for all available terms. To apply to the MSSE program, or for additional application and admission information, please visit **scranton.edu/gradapply**.

### Contact the Program Director

You are encouraged to contact the Program Director, Dr. Yaodong Bi, for information on the academic components of the Software Engineering program. To contact Dr. Bi, please email **yaodong.bi@scranton.edu** or call **570.941.7774**.

### Do More

#### Graduate Assistantships

Graduate assistantships are available on a competitive basis to graduate students who seek to strengthen the breadth and quality of the educational experience. Graduate assistants work with faculty and staff in the areas of teaching, research and/or administration. The graduate assistant is awarded a tuition scholarship as well as a stipend. More at: **scranton.edu/ga**

#### Career Development Services

MSSE students have full access to the services of the Gerard R. Roche Center for Career Development, which include resume and cover letter writing, interview and job search techniques, and participation in employer on-campus recruiting visits and Career Expos. Students and alumni can access a wide range of employment opportunities through the office’s online job posting system. The career team is available to consult for advice and support throughout your career. More at: **scranton.edu/careers**

### Contact

**Stacey Urgento ’98 G’01** Assistant Director of Graduate Admissions  
- **Phone**: 570.941.5921  
- **Email**: stacey.urgento@scranton.edu  
- **Email**: gradadmissions@scranton.edu

### Location

The University of Scranton Office of Graduate & International Admissions,  
The Estate, Scranton,  
PA, U.S.A. 18510-4699  
[scranton.edu/international](http://scranton.edu/international)  

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## Curriculum Programs of Study

### College of Arts and Sciences

**Master of Science in Software Engineering**

### Fundamentals Courses

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<td>Formal Methods &amp; Models</td>
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<tr>
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For additional information on international student support and services, please visit: **Scranton.edu/international**.