THE UNIVERSITY *of* SCRANTON

Master of Science in **Software Engineering**

36 Credits

Fundamental Courses (12 credits)

· SE 500: Mathematics for Software Engineering
· SE 501: Introduction to Software Development
· SE 504: Formal Methods and Models
· SE 507: Requirements Analysis and
    Software Specification

Advanced Courses (18 credits)

· SE 510: Principles and Applications
    of Software Design
· SE 518: Software Security
· SE 524: Software Project Management
· Three elective courses (9 credits)

Thesis Project (6 credits)

· SE 598: Project Analysis and Design

State-of-the-Art Facilities

The Department of Computing Sciences provides a variety of computing resources dedicated to supporting computing programsm, including MSSE. Laboratories near faculty offices provide reconfigurable spaces for those resources.

Amazon Web Services (AWS) and Gitlab (gitlab.com) are recent additions of computing resources, which offer students the opportunity for hands-on experience in cloud computing and with modern software development tools.

Career Outlook

The demand for software engineers and developers is projected to grow 25% through 2032, according to the U.S. Department of Labor. Graduates of the MSSE program have been hired by companies such as IBM, Lockheed Martin, Metlife, Microsoft, New York Times, Tumblr and USPS.

LEARN MORE: gradadmissions.scranton.edu (click *View Programs*) or scan the QR code