

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Loyola University Chicago's Department of Computer Science's MS in Software Engineering is ideally suited for working professionals and recent graduates. The program provides a strong balance between foundational knowledge and contemporary practice.

The MS in Software Engineering prepares students for careers as software developers, software engineers, technical project leads, and engineering managers. The curriculum covers the full software development lifecycle using both traditional and agile methods. Electives allow you to specialize in areas such as web, mobile, and embedded systems development, large-scale software development, and high-performance computing.

PROGRAM STRUCTURE

- The degree offers part- and full-time enrollment
Average time to completion: 16 months (full time), 2–3 years (part time)

Most on-campus courses meet one afternoon or evening per week. Online options are also available.

The MS in Software Engineering can be completed with on-campus courses or a combination of on-campus and online courses.

INTERNSHIPS/RESEARCH OPPORTUNITIES

The MS in Software Engineering allows a student to customize his or her own degree. There are numerous options for internships and independent study, including a programming project, research, or a service-oriented project.

EXPECTATIONS AFTER GRADUATION

Graduates have been successful advancing professionally, obtaining employment in leading software development and IT-focused companies, and advancing to doctoral studies at some of the finest graduate programs in computer science and engineering. The programs are designed in close collaboration with industry via the department's Program Advisory Committee.

Career services are available at [LUC.edu/career](https://luc.edu/career).

PROGRAM DISTINCTIONS

As a CS student, you'll have access to virtual machines (hosted in the department) and other cloud-based development tools (by subscription as needed). The combined solution includes disk space for programming assignments and other work. The department and University provide state-of-the-art computing labs with Mac, Windows, and Linux workstations.

You will also have access to experimental systems, including computational clusters, embedded systems, and 3D printing/fabrication. Loyola offers high-speed internet and is part of the Internet2 consortium; all of its campuses are interconnected by a high-speed fiber optics network. Each campus has computing centers equipped with extensive software options and standard programming environments.

The department also has research and partnerships in high-performance computing, which gives us the ability to request access time on national supercomputers and cloud-computing resources.

Learn more at [LUC.edu/cs](https://luc.edu/cs).

FACULTY

Computer Science faculty members are both passionate about their teaching and dedicated to their research. Faculty members receive recognition for the quality of their research by regularly obtaining competitive grants from agencies such as the National Science Foundation, the Air Force Office of Scientific Research, and the National Security Agency, as well as industry groups. Areas of faculty interest include algorithms, databases, networks and security, programming languages, software engineering, artificial intelligence, machine learning, natural language processing, information retrieval, human-computer interaction, cloud and high-performance computing, mobile and pervasive computing, embedded and distributed systems, robotics, bioinformatics, computational biology, computational neuroscience, digital music and humanities, computer science education, and broadening participation in computing/STEM.

PREREQUISITES

Prerequisites are offered fall and spring in a condensed format online. You should have a working knowledge of programming before beginning your coursework. If you do not, you may be required to take introductory courses in Object-Oriented Programming and Data Structures.

FINANCIAL AID

Begin the financial aid process by completing your Free Application for Federal Student Aid (FAFSA) at fafsa.ed.gov.

The Graduate School has limited funds available for financial assistance. Financial aid from Loyola's Financial Aid Office will not impact your ability to apply for financial aid through the Graduate School. To learn more about these financial aid opportunities, visit LUC.edu/finaid/graduateschool.

LEARN MORE

APPLY

gpem.LUC.edu/apply

For all application requirements and deadlines, please visit LUC.edu/gpem/info.

CONTACT INFORMATION

For further information about the academic program or to arrange a visit, please contact:

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Send all supporting documents to:

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