

Software Engineering

Software engineers are needed in virtually every industry at every level. It's much more than designing and developing applications. As our machines, homes and cities become more equipped with sensors, transmitters and communication systems, software engineers help us connect the bots in fun and creative ways.

Design and implement the future as a software engineer.

The M.S. in Software Engineering at Regis educates students on the various disciplines associated with modern software engineering. You'll gain an advanced understanding of programming languages such as Java™, and Swift, JavaScript, HTML, and CSS, as well as knowledge of the specification, architecture, design, implementation, testing and security of both desktop and mobile applications.



PROJECTED GROWTH IN THE SOFTWARE ENGINEERING FIELD BY 2026, MAKING SOFTWARE ENGINEERING ONE OF THE FASTEST GROWING CAREER FIELDS IN AMERICA

Source: bls.gov



MEDIAN PAY FOR SOFTWARE DEVELOPERS IN 2018

Source: bls.gov

You might be wondering:

IN WHAT FORMAT ARE CLASSES HELD?

Classes are taught in an 8-week format, either online or on campus during the evenings.

HOW LONG DOES THE PROGRAM TAKE TO COMPLETE?

This program can be completed in as little as 1-2 years.

WHEN CAN I START?

Program starts are offered in January, May and August. The pre-requisite class is offered in March, June and October. Students who wish to take classes as part of the on-campus cohort begin the program in August.

Degree Plan

CORE REQUIREMENTS

18 credit hours

MSSE 600 Object-Oriented Software Engineering*
MSSE 610 Software Requirements and Processes*
MSSE 635 Software Architecture & Design
MSSE 640 Software Quality and Test*
MSSE 642 Software Assurance
MSSE 695 Software Engineering Research Methods

TRACK REQUIREMENTS

9 credit hours

Enterprise Software Engineering in Java Track:
MSSE 670 Object Oriented Software Construction*
MSSE 672 Component-Based Software Development*
MSSE 674 Service-Based Software Development*

Full Stack Track:
MSSE 661 Web Software Development*
MSSE 663 Web Frameworks*
MSSE 667 Web Mobile Frameworks*

Mobile Development Track:
MSSE 670 Object Oriented Software Construction
MSSE 655 Mobile Software Engineering in Android
MSSE 667 Web Mobile Frameworks

GENERAL ELECTIVES

6 credit hours

Select two 600-level courses from Anderson College in the following areas:
Data Science
Enterprise Systems Engineering
Health Informatics
Information & Cyber Security
Information Technology Management
Software Engineering

DEGREE COMPLETION REQUIREMENTS

3 credit hours

Select one of the following:
MSCC 693 Graduate Capstone
MSCC 698 Graduate Thesis
MSSE 696 Software Engineering Practicum II

TOTAL: 36 CREDIT HOURS

Ready to get started?

Contact

ruadmissions@regis.edu
800.944.7667

Ready to apply?

regis.edu/apply

Not quite ready for the full degree?

Start with a certificate program and see what you think.

Related Graduate Certificates:

- Enterprise Java™ Software Development
- Full Stack+
- Mobile Software Development
- Software Engineering

Classes taken as part of the certificate programs listed above can be applied toward the master's degree in Software Engineering, so you can decide to keep going without skipping a beat.

*Indicates classes that can be taken for certificate completion. Admissions requirements for certificate programs may vary. Consult the academic catalog for a complete list of program and application requirements.

What You'll Need

TO APPLY:

- | Official degree-bearing transcript
- | Resume and Essay
- | Minimum 3.0 GPA
- | Relevant work experience or relevant bachelor's degree
- | Completed online application

PREREQUISITES:

- | MSC 501 – Object Oriented Programming in Java

Prerequisites may be waived with a relevant bachelor's degree, work experience or knowledge of any object-oriented programming languages such as C# and Python.

TUITION AND FEES

Tuition for the 2020-2021 academic year:

- | \$845 per credit hour
- | \$75 technology fee per course

To learn about financial aid options available, contact the financial aid office at 800.568.8932 or visit regis.edu/financialaid.