

Software Engineering

MASTER OF SCIENCE



Program Features

- 12 courses | 36 credit hours
- Areas of focus include software requirements gathering and documentation, programming, testing and validation, human-computer interaction, and project management.
- Students receive quality instruction from CEC faculty members—all of whom hold Ph.D. degrees and are experts in their respective fields of research/application.

Program Formats

- Fort Lauderdale/Davie Campus
- Online

Program Highlights

- Full-time students can earn the degree in 12 months.
- Working professionals can earn the degree in 16–24 months.
- Fall and winter terms are 16 weeks.
- Summer term is 14 weeks.

Career Opportunities

- software engineer
- software architect/developer
- software project manager/development team leader
- software quality assurance manager
- software requirements engineer

Learn More
cec.nova.edu

M.S. in Software Engineering

The M.S. in Software Engineering (MSSE) program focuses on the foundations of software engineering, including areas such as requirements, design, development, testing, verification, human-computer interaction, and project management.

The MSSE degree is designed to give students a thorough knowledge of the field and to provide an enduring foundation for future professional growth. The software engineering program blends theory and practice into a learning experience that develops skills applicable to complex, real-world problems.

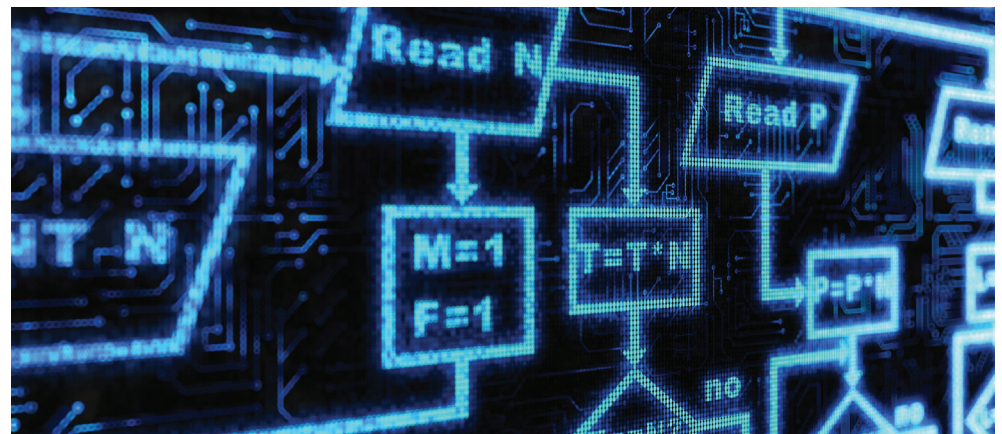
Students take six core courses covering software engineering, software requirements, object-oriented design, software testing, interaction design, and project management. The remaining six courses are electives drawn from computer science, information systems, or information security course offerings.

Admissions Requirements

- ✓ completed online application for admission (apply.nova.edu)
- ✓ nonrefundable, \$50 application fee
- ✓ conferred bachelor's degree with an appropriate major from a regionally accredited institution
- ✓ sealed official transcripts from all prior institutions
- ✓ overall undergraduate GPA of 2.5 or greater on a 4.0 scale (Applicant must have earned a GPA of at least 3.0 in his or her major.)
- ✓ résumé providing a short account of the applicant's academic background and professional experience

The college may require additional documentation to support the application. An applicant may submit standardized test scores or any additional documentation to strengthen his or her application.

International students should visit cec.nova.edu/admissions for additional requirements.



Software Engineering

MASTER OF SCIENCE

Curriculum

Total Credits: 36

PREREQUISITE COURSES

Applicants who do not have an adequate academic background may be required to take one or more of the following 500-level graduate courses during the first two terms of the program. (Courses are 3 credits each.)

MSIT	500	Foundations of Systems
CISC	500	Java Programming Language
CISC	502	Mathematics in Computing
CISC	503	Data Structures and Algorithms

Core courses and electives for the master's degree in software engineering are in the following lists. Students must take all six core courses and six electives. Students who wish to take an additional elective must request approval from the program office prior to registration. Students who opt to do a thesis must take four electives and 6 thesis credits.

DEGREE PROGRAM COURSES

Core Courses (six courses; 3 credits each)

CISC	680	Software Engineering (taken in the first term)
CISC	682	Software Requirements Engineering
CISC	683	Object-Oriented Design
CISC	684	Software Testing and Verification
CISC	685	Interaction Design
MMIS	621	Information Systems Project Management

Electives (six courses; 3 credits each)

Students may select any six 600-level courses at the school prefixed CISC, MSIT, ISEC, or MMIS (except MMIS 630, 653, 656, 660, or 680 or MSIT 660).

This publication should not be viewed as a substitution for official program requirements and outcomes. A student is responsible for meeting the curriculum and program requirements in the *Graduate Student Catalog* that are in effect when the student enters the program.

Nova Southeastern University admits students of any race, color, sexual orientation, and national or ethnic origin. ■ Nova Southeastern University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate's, baccalaureate, master's, educational specialist, doctorate, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Nova Southeastern University. 08-029-16_05MCS

Admissions

3301 College Avenue
Fort Lauderdale, Florida 33314-7796
cec.nova.edu/admissions
(954) 262-2005 • 800-986-2247, ext. 22005
cecinfo@nova.edu

