COMPUTER SCIENCE

MASTER OF SCIENCE (M.S.)

NSU Florida

At a Glance

- Earn a degree in 30 credit hours.
- Complete the program in 12–14 months as a full-time student.
- Complete the program in 16–24 months as a working professional.

Program Formats

- Fort Lauderdale/Davie Campus
- online

Program Highlights

- Concentrations include artificial intelligence, computer systems, cyber defense, data science, real-world computing, and software engineering.
- All CCAC faculty members hold Ph.D. degrees and are experts in their respective fields of research/application.

Future Opportunities

Explore careers, such as

- artificial intelligence engineer
- data scientist
- software engineer
- systems software developer
- user interface designer/developer

Learn More
computing.nova.edu

Learn to Solve Complex, Real-World Problems

Gain thorough knowledge of the computer science field and an enduring foundation for future professional growth. NSU's M.S. in Computer Science program blends theory and practice into a learning experience that develops skills applicable to complex, real-world problems.

Five core courses cover the theory of programming languages, the design and analysis of algorithms, operating systems, database management systems, and software engineering. Then, you choose three or more courses in one of the following concentrations: artificial intelligence, computer systems, cyber defense, data science, real-world computing, and software engineering. Remaining courses can be drawn from any computer science electives. Alternatively, you can take five elective courses from any concentration.

Admissions Requirements

- online application (*apply.nova.edu*)
- $50 application fee (nonrefundable)
- an earned bachelor's degree with a GPA of at least 2.5 from a regionally accredited institution and with an appropriate major
- sealed, official transcripts from the conferred four-year bachelor's degree institution attended
- a résumé

International students should visit *computing.nova.edu/admissions/international* for additional requirements.

College of Computing, AI, and Cybersecurity (CCAC)

COMPUTER SCIENCE

MASTER OF SCIENCE (M.S.)

Curriculum | Total Credits: 30

PREREQUISITE COURSES

Credits

Applicants who do not have adequate academic backgrounds may be required to take one or more of the following 500-level graduate courses during the first two terms of the program.

CISC	501	Computer Organization and Architecture	3
CISC	502	Mathematics in Computing	3
CISC	503	Data Structures and Algorithms	3
MSIT	501	Foundations of Programming, Data Structures, and Algorithms	3

The Master of Science in Computer Science has six concentration options, along with a no-concentration option. Students must complete 30 credits. Core courses, concentrations, and electives are listed below. Students who opt to do a thesis will replace two of the elective courses with these credits. Plans for the thesis option must be made with and approved by the program office.

DEGREE PROGRAM COURSES

Core Courses (15 credits)

CISC	610	Programming Languages	3
CISC	615	Design and Analysis of Algorithms	3
CISC	640	Operating Systems	3
CISC	660	Database Management Systems	3
CISC	680	Software Engineering	3

Artificial Intelligence Concentration (12 credits)

CISC	662	Data Mining and Knowledge Discovery in Databases	3
CISC	664	Information Retrieval and Web Search Engine Technology	3
CISC	670	Artificial Intelligence	3
CISC	685	Interaction Design	3

Computer Systems Concentration (9 credits)

CISC	650	Computer Networks	3
CISC	665	Distributed Systems	3
ISEC	660	Advanced Network Security	3

Cyber Defense Concentration (12 credits)

Select four courses.

ISEC	615	Fundamentals of Cybersecurity	3
ISEC	620	Applied Cryptography	3
ISEC	640	Database Security	3
ISEC	650	Computer and Network Forensics	3
ISEC	660	Advanced Network Security	3

Data Science Concentration (12 credits)

CISC	662	Data Mining and Knowledge Discovery in Databases	3
CISC	664	Information Retrieval and Web Search Engine Technology	3
CISC	672	Data Visualization	3
MMIS	671	Data Analytics and Artificial Intelligence	3

Real-World Computing Concentration (12 credits)

CISC	665	Distributed Systems	3
CISC	668	Mobile Application Development	3
CISC	670	Artificial Intelligence	3
CISC	681	Computer Graphics	3

Software Engineering Concentration (12 credits)

CISC	682	Software Requirements Engineering	3
CISC	683	Object-Oriented Design	3
CISC	684	Software Testing and Verification	3
CISC	685	Interaction Design	3

No-Concentration Option (5 courses, 3 credits each)

Select a mix of courses from concentrations and/or electives.

Electives (3 credits each)

Any course in the aforementioned concentrations is also an elective course in the program. Additionally, any offerings of CISC 631—Theory of Computation or CISC 690—Special Topics in Computer Science, will count as an elective.

25-08-035L-RWM

Admissions

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NSU Florida