Information Technology
MASTER OF SCIENCE

Program Features
- 12 courses | 36 credit hours
- The security concentration is recognized by the U.S. National Security Agency and the Department of Homeland Security.
- 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 developer
- business intelligence analyst
- information technology specialist
- network administrator
- systems analyst

M.S. in Information Technology
The Master of Science in Information Technology (MSIT) program is designed to provide students with a thorough knowledge of organizational information systems, application technologies, and systems infrastructure. It focuses on meeting the needs of users within an organizational and societal context through the selection, creation, application, integration, and administration of computing technologies and resources.

Students take four core courses covering database systems, platform and network technologies, software development, and security technologies. Three or more courses are then taken in one of the following three concentrations of the student’s choosing: application development, database administration, or system administration. The remaining five courses (15 credits) are electives drawn from information technology, information security, or management information systems course offerings.

Program Faculty Member
Prior to joining the faculty of NSU’s College of Engineering and Computing (CEC) in 1994, Frank Mitropoulos, Ph.D., worked in the private industry for 12 years in various roles. These included positions as senior developer for IBM Logica and as a biochemist and scientific programmer at the University of Miami’s School of Medicine.

Mitropoulos has taught more than 50 technical training courses for corporations such as Motorola, IBM, GTE, American Express, and American Bankers Group. He was instrumental in the launch of CEC’s first mobile computing lab and instructs a hands-on iOS application course.

Program Alumnus
As an information management specialist with the U.S. Department of State, Abdulhayy Johnson (M.S. Information Technology, 2010) works on global IT initiatives for the Foreign Service.

Johnson credits format flexibility and the concentrations made available through the MSIT program for assisting him in aligning his coursework with his specific career aspirations. “With the extra income I’ve earned as a result of my master’s degree, the degree paid for itself within one year.”

Learn More
cec.nova.edu
CURRICULUM 2015–2016

Total Credits: 36

PREREQUISITE COURSES

This program is designed for students with undergraduate majors in science, math, engineering, or business. In addition, applicants must have knowledge of structured programming in a modern, high-level language, as well as assembly language and computer organization. Applicants who do not have an adequate 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.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MSIT 500</td>
<td>Foundations of Systems</td>
</tr>
<tr>
<td>MSIT 501</td>
<td>Foundations of Programming, Data Structures, and Algorithms</td>
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</tbody>
</table>

Core courses, concentrations, and electives are in the following lists. Students must complete four core courses, one concentration, and 15 elective credits in order to earn the MSIT degree.

DEGREE PROGRAM COURSES

Core Courses (four courses; 3 credits each)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MSIT 630</td>
<td>Database Systems</td>
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<tr>
<td>MSIT 650</td>
<td>Platform and Network Technologies</td>
</tr>
<tr>
<td>MSIT 660</td>
<td>Software Development</td>
</tr>
<tr>
<td>ISEC 615</td>
<td>Fundamentals of Security Technologies</td>
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</tbody>
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Application Development Concentration (two courses; 3 credits each)

Students select two of the four courses listed:

- MSIT 665  Web Services
- MSIT 662  Mobile Application Development in iOS
- MSIT 664  Mobile Application Development in Android
- MSIT 662  Mobile Application Development Capstone

Database Concentration (three courses; 3 credits each)

- MMIS 671  Fundamentals of Analytics and Business Intelligence
- MMIS 643  Data Mining
- MSIT 638  Database Capstone

System Administration Concentration (three courses; 3 credits each)

- MSIT 652  System Integration and Administration
- MSIT 654  Database Integration and Administration
- MSIT 658  System and Database Administration Capstone

Electives (five courses; 3 credits each)

Students select any five 600-level courses at the college prefixed MMIS, MSIT, or ISEC (except MMIS 630 or 653 or ISEC 600, 620, 640, 650, or 660).

Total Credits: 36

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.