Program Features
- 64 credit hours
- Unique executive format offers flexibility to working professionals.
- 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
- Two formats are available.
- Students can attend a full-time on-campus format.
- Cluster format includes a blend of on-campus and online activities.
- On-campus cluster sessions are held quarterly over an extended weekend (Friday–Saturday) at the Fort Lauderdale/Davie Campus.
- Between sessions, students work on course assignments and research, as well as participate in online activities.

Career Opportunities
- college/university faculty members
- information systems manager
- information systems security engineer
- research information specialist

Ph.D. in Information Systems
The Information Systems doctoral (DISS) program is especially well-suited to professionals working in areas such as information system planning, information security, systems analysis and design, project management, information system administration, information science, or software engineering.

The uniquely structured Ph.D. in Information Systems program combines traditional and online instruction to give professionals the opportunity to pursue graduate study while continuing to work in their current positions. It provides information technology professionals with the knowledge and ability to develop creative solutions to substantive, real-world problems in information systems. Each student must complete eight courses, two research courses, and a dissertation.

The optional information security concentration is recognized by the U.S. National Security Agency and the Department of Homeland Security.

Program Faculty Member
Maxine Cohen, Ph.D., has been involved with computers, programming, and computing education for more than 40 years. Her research has focused on issues relating to human-computer interaction (HCI), usability engineering, and interface design.

In addition to developing the first HCI course at the State University of New York—Binghamton and collaborating on one of the go-to textbooks in the HCI field, *Designing the User Interface* (5th edition), Cohen has worked for IBM, the Department of Defense (DOD), and the National Science Foundation (NSF).

Program Alumnus
As vice president of program trading at Barclays Capital Investment Banking in New York, Michael Makovoz (Ph.D. in Information Systems, 2008) leverages information systems to identify market opportunities and execute complex financial transactions.

Program flexibility was key to Makovoz's selection of NSU's College of Engineering and Computing as he benefited from the cluster format and diverse curriculum. Additionally, he enjoyed the advantage of selecting his own dissertation topic based on his professional interest in artificial intelligence.

Learn More
[cec.nova.edu](http://cec.nova.edu)
Curriculum 2015–2016

Total Credits: 64

The Ph.D. in Information Systems program requires completion of at least 64 credits, 32 of which are for courses, and at least 32 are for research and dissertation. To help students plan their studies, course plans are available for students pursuing both on-campus (full-time) study and the cluster format.

**DEGREE PROGRAM COURSES**

**General Information Systems** (two courses; 4 credits each)

- DISS 720 Human-Computer Interaction
- DISS 735 Knowledge Management
- DISS 750 Database Systems

**Research Methods** (two courses; 4 credits each)

- RESD 705 Quantitative Research Methods
- RESD 710 Qualitative Research Methods
- RESD 720 Multivariate Research Methodology

**IS Research Seminar—Core** (two courses; 4 credits each)

- DISS 725 Information Systems Development
- DISS 726 Foundations of Information Systems—Social Perspectives

**IS Research Seminar—Electives** (two courses; 4 credits each)

- Choose two courses
  - DISS 710 Analytics and Business Intelligence
  - ISEC 755 Information Security Management
  - ISEC 765 Managing Risk in Secure Systems*
  - ISEC 775 Information Privacy*

* Required for students pursuing the concentration in Information Security

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.

**RESEARCH REGISTRATIONS**

Students are required to complete two sections of DISS 898 Directed Research, before entering candidacy.

NOTE: Students beginning fall 2014 or later will instead take two or more sections of DISS 885 Doctoral Research.

Students must register for the course with a particular faculty member as directed in the course description. Directed Research/Doctoral Research registrations must be in sequence, not in parallel. Students are further advised to wait for the second year of study before registering for Directed Research/Doctoral Research.

- DISS 885 Doctoral Research (4 credits each)
- DISS 898 Directed Research (4 credits each)

**Dissertation Registrations**

Students must complete 24 credits of dissertation registrations (three registrations of DISS 901). Students who do not complete the dissertation within 24 credits will register for DISS 920 Continuing Dissertation until the dissertation is complete.

- DISS 901 Doctoral Dissertation (8 credits each)
- DISS 920 Continuing Dissertation (4 credits each)