About the Major

The computer science program is designed to give students a thorough knowledge of the field and to provide an enduring foundation for future professional growth. The program blends theory and practice into a learning experience that develops skills applicable to complex real-world problems. It focuses on traditional aspects of computer science, including automata theory, programming languages, algorithms, operating and distributed systems, database systems, compilers, and software engineering.

Program Format

This program's formats offer full-time students the opportunity to earn the degree in 12 months and working professionals the opportunity to earn the degree in 16-24 months. This program is available online and/or on-campus. On-campus classes are held on the main campus in Fort Lauderdale. Each class meets once a week from 6:00 p.m. to 8:00 p.m. for 16 weeks in the fall and winter terms and 14 weeks in the summer term.

Career Opportunities

- Artificial Intelligence Engineer
- Computer Programmer
- Computer Theorist
- Object-Oriented /GUI Designer
- Systems Software Developer
The M.S. in Computer Science is offered with six concentrations. Student must complete four core courses (twelve credits), one concentration (nine credits), and fifteen elective credits. Core courses, concentrations, and electives are listed below. If the thesis option is elected, students take nine credits of elective and six credits of thesis. Plans for the thesis option must be made with and approved by the program office.

**Core Courses** (three credits each)
- CISC 610 Program Languages
- CISC 615 Design and Analysis of Algorithms
- CISC 640 Operating Systems
- CISC 680 Software Engineering

**Theory Concentration** (three credits each)
- CISC 630 Compilers
- CISC 631 Theory of Computation
- ISEC 620 Applied Cryptography

**Software Engineering Concentration** (three credits each)
- CISC 682 Software Requirements Engineering
- CISC 684 Software Testing and Verification
  - Either
  - CISC 683 Object-Oriented Design
  - Or
  - CISC 685 Interaction Design

**Computer Systems Concentration** (three credits each)
- CISC 647 Computer Architecture
- CISC 650 Computer Networks
- CISC 665 Distributed Systems

**Database Concentration** (three credits each)
- CISC 660 Database Management Systems
- CISC 662 Data Mining and Knowledge Discovery in Databases
- ISEC 640 Database Security

**Security Concentration** (three credits each) (Choose three)
- ISEC 600 Secure Computer Systems
- ISEC 620 Applied Cryptography
- ISEC 640 Database Security
- ISEC 660 Advanced Network Security

**Real-World Computing Concentration** (three credits each)
- CISC 665 Distributed Systems
- CISC 670 Artificial Intelligence
- CISC 681 Computer Graphics

**Electives** (three credits each)
Any course in the concentrations described above is also an elective course in the program. Additionally, any offerings of CISC 690, Special Topics in Computer Science, will count as electives.

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**Notice of Nondiscrimination and Accreditation**
Nova Southeastern University admits students of any race, color, sex, age, nondisqualifying disability, religion or creed, sexual orientation, or national or ethnic origin to all the rights, privileges, pro-grams, and activities generally accorded or made available to students at the school, and does not discriminate in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other school administered programs. Nova Southeastern University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, Telephone number: 404-679-4501) to award associate’s, bachelor’s, master’s, educational specialist, and doctoral degrees.

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**For further information**
- Visit the Office of Admissions online at www.scis.nova.edu or email scisinfo@nova.edu.
- Call the Office of Admissions at 954-262-2001 or 800-986-2247, ext. 22001
- Visit our campus at 3301 College Avenue, Fort Lauderdale, FL 33314
- Apply Online at www.scis.nova.edu/applyonline