

# Computer Science

BACHELOR OF SCIENCE

NOVA SOUTHEASTERN  
UNIVERSITY

**NSU**  
Florida

## Where It Can Take You

Apply your skills across a range of potential career paths, and become the reliable computing professional every business and organization needs. With a degree in computer science, you'll be ready to advance in government, higher education, and across the high-tech industry.

## Become a Leader

- computer scientist
- customized business software
- embedded software engineer
- mobile application software developer
- software architect
- software designer
- system analyst

**Learn More**  
[cec.nova.edu](http://cec.nova.edu)

## B.S. in Computer Science

Use powerful computers with cutting-edge software tools to solve complex computational problems. Take advantage of the outstanding computing facilities and computer science curriculum, based on the Association for Computing Machinery's recommendations. Explore algorithms, software design and development, and real-world challenges in the exciting computer science major.

## What You'll Study

Professors regularly update their courses to reflect constant changes within this evolving industry. With a practical approach, you'll gain expertise in: algorithms and data structures, architecture, database and information retrieval, human-computer interaction, numerical and symbolic computation, operating systems, programming languages, and software methodology and engineering.

## How You'll Learn More

By emphasizing laboratory experiences, your professors bring the coursework to life. Beyond coding, you'll integrate theory, abstraction, and design into your practical projects. You'll also be challenged to bridge the gap between hardware and software issues.



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### Curriculum | Total Credits: 83

Students are required to complete 30 credit hours as part of the General Education Program. Freshmen starting in fall 2016 or later are required to successfully complete the First-Year Seminar (UNIV 1000) in their first semester at NSU.

#### Major Prerequisites (22 credits)

		Credits
MATH 2100	Calculus I	4
<b>OR</b>		
MATH 2100H	Calculus I Honors	4
MATH 2200	Calculus II	4
<b>OR</b>		
MATH 2200H	Calculus II Honors	4
MATH 3300	Introductory Linear Algebra	3
MATH 4500	Probability and Statistics	3
PHYS 2400	Physics I/Lab	4
Any Science Course		4

#### Core Courses (52 credits)

		Credits
CSIS 1800	Introduction to Computer and Information Sciences	3
CSIS 2050	Discrete Mathematics	4
CSIS 2101	Fundamentals of Computer Programming	4
CSIS 3023	Legal and Ethical Aspects of Computers	3
CSIS 3051	Computer Organization and Architecture	4
CSIS 3101	Advanced Computer Programming	4
CSIS 3200	Organization of Computer Languages	3
CSIS 3400	Data Structures	4
CSIS 3460	Object Oriented Design	3
CSIS 3500	Networks and Data Communication	3
CSIS 3610	Numerical Analysis	4
CSIS 3750	Software Engineering	4
CSIS 3810	Operating Systems Concepts	3
CSIS 4610	Design and Analysis Algorithms	3
CSIS 4903	Capstone Project for Computer Science	3
<b>OR</b>		
CSIS 4953	Capstone Internship in Computer Science	3

#### Major Electives (9 credits)

Select 9 credits from the following courses.

Any 3000/4000-level CSIS, CENG, EENG, and SENG courses not counted as core courses for the major.

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 *Undergraduate Student Catalog* that are in effect when the student enters the program.

Nova Southeastern University admits students of any race, color, sexual orientation, gender, gender identity, military service, veteran status, 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. 08-086-18\_02PGA

### Admissions

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