Computer Science

Master of Science

Description

The Master of Science (MS) in Computer Science program is designed to deepen expertise in cutting-edge areas like cybersecurity, computer systems, and software methodology. Tailored for those aiming to excel in high-growth tech fields, this program emphasizes practical and theoretical knowledge. Students develop sophisticated software projects, gain in-depth understanding of modern computer systems, and master advanced algorithms and methods. A 6-credit project or thesis caps off your learning, showcasing your ability to tackle real-world challenges. Prepare to be at the forefront of technological innovation and advancement.

Admissions Requirements

- A bachelor's degree or equivalent from a recognized institution
- Credentials earned outside of the US must be evaluated by an approved agency
- GPA of 2.7 or higher
- Official transcripts from all previously attended institutions
- Completed application with Carolina University

Graduation Requirements

- Shall have maintained a minimum cumulative GPA of 3.0;
- Shall have passed all courses in the curriculum and made a C or better professional core courses;
- Shall have completed at least six of the final nine hours with Carolina University.

Courses

Professional (Waivable) – 18 hours

CSC 510 - Programming I
3 Credit Hours
CSC 520 - Programming II
3 Credit Hours
CSC 530 - Algorithms & Data Structures
3 Credit Hours
CSC 540 - Algorithms & Data Structures II
3 Credit Hours
CSC 550 - Networking
3 Credit Hours
CSC 560 - Operating Systems
3 Credit Hours

Professional Core

Software Methodology (3 hours): 1 of the following courses

CSC 600 - Web-Database ApplicationDevelopment
3 Credit Hours
CSC 605 - Web-Oriented Principles andPractice
3 Credit Hours
CSC 610 - iOS Development
3 Credit Hours
CSC 615 - Rapid Software Development
3 Credit Hours
CSC 620 - OOP Analysis and Design
3 Credit Hours
CSC 625 - Java Programming
3 Credit Hours

Theory and Analysis (3 hours): 1 of the following courses

CSC 650 - Advanced Database Systems
3 Credit Hours
CSC 655 - Cryptography and Data Security
3 Credit Hours
CSC 660 - Structure of Programming Languages
3 Credit Hours
CSC 665 - Artificial Intelligence
3 Credit Hours
DCS 635 - Machine Learning
3 Credit Hours

Computer Systems (3 hours): 1 of the following courses

CSC 550 - Networking
3 Credit Hours
CSC 555 - Unix Network Administration
3 Credit Hours
CSC 560 - Operating Systems
3 Credit Hours
CSC 565 - Enterprise Network Design
3 Credit Hours

7 courses (21 hours) of any ANA, CSC, CYB, or DCS course

CSC 530 - Algorithms & Data Structures
3 Credit Hours
CSC 535 - Introduction to Script Programming/Python
3 Credit Hours
CSC 540 - Algorithms & Data Structures II
3 Credit Hours
CSC 699 - Special Topics

3 Credit Hours

Master's Thesis/Project

[CSC 690 - Project/Thesis I](#)
3 Credit Hours
[CSC 695 - Project/Thesis II](#)
3 Credit Hours