

Master of Science in Computer Science

Become a digital architect of the future and unlock your potential in today's technology-driven economy



The Master of Science Computer Science (MSCS) program is designed to advance the professional careers of technologists in the field of computing. The program incorporates computer algorithms and compares structure for data management and retrieval. Students will learn to apply principles of design, critical, and algorithmic thinking, innovation, management, and problem-solving to the field of computer science. MSCS prepares students to move into advanced careers in computer science and software design by providing practical skills to design and develop computer software and applications.

MSCS Program Overview

Required Courses

- MSCS 600 Software Quality Metrics
- MSCS 601 Principles of Data Management
- MSCS 602 Modern Operating Systems
- MSCS 603 Computer Systems Architecture
- MSCS 604 Software Engineering Concepts
- MSCS 605 Java Web Applications
- MSCS 606 Web Services Development & XML
- MSCS 610 .NET Programming
- MSCS 612 Software Test Automation & Tools
- MSCS 624 Telecommunications & Networking
- MSCS 690 Big Data Analytics
- MSCS 693 Applied Computer Science Capstone Project

Total 36 credit hours

Career Opportunities

- Chief Information Officer
- Software Engineer
- Computer Network Architect
- Computer Systems Engineer
- Enterprise Applications Programmer
- Network System Administrator
- Web & Internet Applications Developer

Key Learning Outcomes

- Create software requirements and specifications, in the design and development of complex software systems
- Evaluate computer systems and improve the overall efficiency and effectiveness by incorporating value computing methodologies
- Analyze, design, and develop database structures and solutions that can be readily implemented
- Design complex front-end applications by considering operating systems that interoperate with back-end systems
- Able to conduct in-depth research, independently or within the enterprise in a broad range of computer science

Why Westcliff University for MSCS?



Regional
Accreditation



Candidate for
Global Accreditation



Affordable
Tuition



No
GMAT/GRE



Live Online
Classes



10:1
Student:Faculty



Flexible
Schedule



Dedicated Career
Services Team