Master of Science in Computer Science

Upskill in One of the Nation's Fast-Growing Fields: Computer Science

The 30-credit, STEM-designated M.S. in Computer Science equips students with the skills to handle complex real-world computing challenges as they prepare for a variety of high-demand career opportunities, such as data scientist, data manager, machine learning engineer, data analyst, data engineer, data architect, software engineer, DevOps engineer, system architect, information systems manager or computer researcher.

Concentrations To Align Your Studies With Career Goals
This program includes 15 credits of core courses to build a solid computer science foundation. Students then have a choice of two concentrations that provide 15 credits of focused learning to develop dynamic skill sets: **Data Science** and **Software Engineering**. The program culminates in a capstone project.

Durable Skills That Apply Across Industries
Students gain a deep understanding of programming languages, algorithms, data structures, system requirements and ethics in the digital world that form the graduate's technical expertise bedrock. Equally important, students refine their communication skills and develop critical thinking/problem-solving abilities as they learn to analyze issues methodically, break them into manageable components and devise efficient solutions. These essential skills contribute to success in any professional setting.

Interested in a Tech Career but Lack a Computer Science Degree?
Degree-holding professionals without a computer science or tech-related background can follow our "nontechnical track" to enter the program. This requires the completion of four prerequisite courses: Computer Science Fundamentals, Object-Oriented Programming, Java Programming I and Database Foundations. It's a perfect opportunity to reskill for a career change.

10 courses | **30** total credits
Finish your Computer Science master's degree in as little as one year.

$1,653
per course
Cost of a typical 3-credit course.

Classes start every 8 weeks.

Get started today at wilmu.edu/Apply.

WILMINGTON
U N I V E R S I T Y ™
TECHNOLOGY

Master of Science in Computer Science

Computer Science Core (15 Credits)

- ☐ **CSC 7002** Python Programming
- ☐ **CSC 7003** Algorithms and Advanced Data Structures
- ☐ **CSC 7004** Intro to Data Science

OR

- ☐ **CSC 7005** Principles of Software Engineering
- ☐ **CSC 7006** Ethics in Digital World
- ☐ **CSC 8101** Capstone Project

Data Science Concentration (15 credits)

- ☐ **CSC 7020** Theory of Artificial Intelligence
- ☐ **CSC 7021** Cloud-Based Machine Learning
- ☐ **CSC 7022** Deep Learning and Neural Network
- ☐ **CSC 7024** Predictive Analytics: Data Mining

Select one course (3 credits) from the following:

- ☐ **CSC 7023** Natural Language Processing
- ☐ **CSC 7025** Data Analytics and Visualization

Software Engineering Concentration (15 credits)

- ☐ **CSC 7040** Software Engineering Methodologies
- ☐ **CSC 7041** Software System Requirements
- ☐ **CSC 7042** Usability Engineering/Human-Computer Interaction
- ☐ **CSC 7043** Information Systems Architecture

Select one course from the following:

- ☐ **CSC 7044** DevOps
- ☐ **IPM 6050** Agile Project Management
- ☐ **IST 7060** Project and Change Management

Dual-Credit ADVANTAGE™
SAVE TIME & TUITION

Students in a variety of Wilmington University bachelor's degree programs may be eligible to incorporate graduate-level core courses from this Computer Science master's degree program into their undergraduate degree. This creates a seamless **Dual-Credit ADVANTAGE™** pathway into the master's program and saves time and tuition dollars. Learn more at **wilmu.edu/DualCredit**.

Two Specialized Computer Science Degree Concentrations:

- Data Science
- Software Engineering

Prerequisite and additional courses not listed here may be required.

Have questions? We're here to help!

Academic Recruiters

💬 **(302) 213-3916**

✉️ **recruiting@wilmu.edu**

Get Started Today!
wilmu.edu/Apply

WILMINGTON UNIVERSITY™
TECHNOLOGY