



MOUNT MERCY UNIVERSITY COMPUTER SCIENCE

YOUR COURSES

CORE REQUIREMENTS

Discrete Mathematics
Fundamentals of Computer Science
Data Structures
Introduction to Object Oriented Programming
Computer Organization
Information Ethics
Systems Programming Concepts
Algorithm Analysis
Senior Project: Computer Science

AREA OF SPECIALIZATION (CHOOSE ONE)

Computational Science

Programming Languages
Special Topics in Computer Science
Calculus I
Calculus II
Linear Algebra

Information Security

Special Topics in Computer Science
(Cryptography)
Special Topics in Computer Science (any)
Calculus I
Calculus II
Probability and Statistics
Criminal Law

Web Development

Web Programming
Database Systems
Principles of Marketing
Visual Technology
Graphic Design I
Web and Motion Graphics

Software Development

Information Systems Analysis
Database Systems
Special Topics in Computer Science (any)
Technology & Communication in Business
Principles of Management
Project Management

Embedded Systems

Special Topics in Computer Science
(Embedded Systems)
Special Topics in Computer Science
(Robotics)
Special Topics in Computer Science (any)
Calculus I
Introduction to Graph Theory
Principles of Physics I

Software Engineering

Programming Languages
Special Topics in Computer Science (any)
Calculus I
Calculus II
Introduction to Graph Theory
Principles of Physics I
Principles of Physics II

OVERVIEW

As a **computer science** major at MMU, you'll learn both the theory and practice of the profession, how to work in groups to complete large software projects, and appropriate ethical standards.

Students are prepared to be professional computer programmers or enter graduate school in computer science.

With an average class size of 17, students work **one-on-one with experienced faculty** to set and achieve goals. You'll pick an **area of specialization** by your sophomore year, preparing you to succeed in the career of your choice.

Based on career goals, computer science majors can focus their studies on:

- Computational Science
- Information Security
- Web Development
- Software Development
- Embedded Systems
- Software Engineering

FAST FACTS

- Students use a two-node cluster matrix in class and for research projects.
- MMU's 25+ student organizations, like **Computer Science Club**, encourage students to explore their individual interests.
- Computer science is also available as a minor.

MMU
— PLUS —

— Qualified Students —

may take up to 12
graduate credits towards
their undergrad & future
graduate degrees

NEARLY

100%

of MMU computer science
graduates find employment
after graduation.



"My time at Mount Mercy was invaluable. The courses taught me skills that I use in the workforce on a daily basis, and the teachers truly cared about making sure I was prepared. My transition into a full-time software engineering position was made easy thanks to my education."

— Jacob Marzen '15
Software Engineer
Rockwell Collins

WHAT CAN I DO WITH A COMPUTER SCIENCE DEGREE?

The computer science major is perfect for students interested in careers in web and software development, information technology, and computer programming. Our program helps students focus on areas of specialization to support your post-graduation career goals.

Our alumni follow many paths, including:

- Software systems development
- Computer programming
- Computer systems engineering
- Database administration
- Network administration
- Software QA testing
- Graduate school
- Web and application development

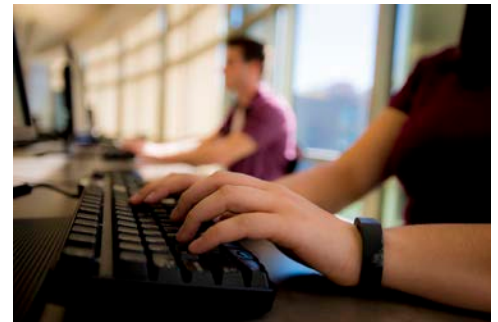
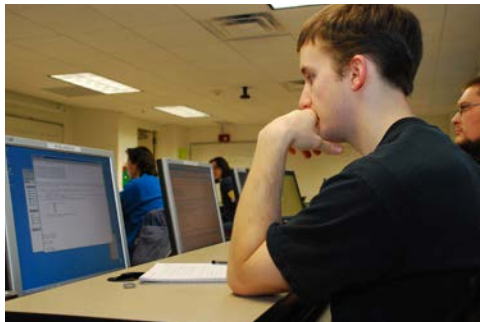


INTERSHIPS

Students benefit from Mount Mercy's connections with Cedar Rapids employers, by gaining **hands-on experiences** through **internships** with local companies like Rockwell Collins and Pearson. These opportunities give students a chance to apply classroom techniques to real-world scenarios—a major advantage after graduation.

OTHER REQUIREMENTS

- A grade of C or above (C- does not count) is required in all courses in the major and their prerequisites.
- A cumulative GPA (all courses) of 2.00 or higher is required for graduation with a major in computer science.
- Using Computers in Research Settings, Introduction to Web Site Development, and Programming in Visual Basic do not count toward major requirements (including area of specialization).



**MOUNT
MERCY
UNIVERSITY**

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