

JUMP-START YOUR CAREER

Online MS in Computer and Information Science

Whether you're ready to master more advanced skills, move into a leadership role or make a fresh start in an in-demand career, choose a top-ranked university that will prepare you for success in business, engineering, analytics and beyond.

Our MS in Computer and Information Science is the No. 14 Online Master's in Information Technology Program in the country.¹ Here, you'll gain high-value skills and expertise in topics of your choosing, from computer science, computer engineering, software engineering, information systems and information technology. Our online program is designed to meet you where you're at, but more importantly, it will prepare you for where you're going next.

ABOUT THE PROGRAM

- Complete in as few as 2 years
- 3 starts through the year: fall, spring and summer
- Part-time and full-time course loads available
- Optional career-changer path for industry newcomers
- Cybersecurity focus

ADMISSIONS REQUIREMENTS

- Completed [online application form](#)
- \$50 application fee
 - Waiver available if you attend an information session or are a Marquette University alumni member
- An undergraduate bachelor's degree from an accredited institution or equivalent foreign degree
 - If you have significant work experience and your GPA is less than 3.0, you will be considered based on your academic performance combined with references relevant to successful work experience
- Current and previous transcripts from colleges and universities attended (excluding Marquette).
 - Unofficial transcripts may be submitted with your application; once admitted, final official transcripts from past academic institutions will be required prior to registration
 - Showcase computer course work including software development, data structures and algorithms, or equivalent experience
 - If you do not have relevant course work reported on transcripts, please explain alternative experiences when applying, or apply to the career-changer path
- Statement of purpose outlining relevant work experience or education, career goals, possible areas of interest, and reasons for seeking admission to this program
- Three letters of recommendation from professors or professionals familiar with your abilities, academic work or professional background
- International applicants only: official TOEFL score report (minimum 80 on the internet-based version) or other acceptable proof of English proficiency

1. Retrieved on January 19, 2022, from [usnews.com/education/online-education/marquette-university-OCIT0079/computer-information-technology](https://www.usnews.com/education/online-education/marquette-university-OCIT0079/computer-information-technology)

CHOOSE YOUR PATH. MEET YOUR GOALS.

While every student in our program will gain foundational skills and knowledge in computing, you will choose one of four distinct pathways to build the master's program that's relevant to you and your career. Speak with your advisor to learn more about synchronous components.

MS in Computer and Information Science

Skip Foundations of Computing, and pick and choose any of the listed courses you are interested in taking.
(36 Credit Hours)

MS in Computer and Information Science for Career Changers

Take Foundations of Computing, an additional course designed for students making a move to the IT field.

MS in Computer and Information Science (Cybersecurity Focus)

Earn a specialization through four required cybersecurity courses, a practicum and your additional elective choices.
(36 Credit Hours)

MS in Computer and Information Science for Career Changers (Cybersecurity Focus)

Learn the basics in our career-changer path and then put them to use in our cybersecurity specialization path.
(42 Credit Hours)

DEFINE YOUR SUCCESS WITH MARQUETTE UNIVERSITY

Have questions about earning your master's in computer and information science online?

Reach out to an Admissions Advisor at
844-640-0408 to learn more.

THE CURRICULUM

Career-Changer Path (1 required course)

- Foundations of Computing (7 credit hours)

Cybersecurity Focus (3 required courses, 1 elective from below)

- Introduction to Cybersecurity (3 credit hours)
- Principles of Service Management and System Administration (3 credit hours)
- Networks and Internets (3 credit hours)
- Computer Security (elective, 3 credit hours)
- Principles of Database Systems (elective, 3 credit hours)
- Mobile Computing (elective, 3 credit hours)
- Advanced Database Systems (elective, 3 credit hours)

Practicum Courses (6 credit hours required for Cybersecurity Focus)

- Practicum for Research and Development in Computing (3-6 credit hours)
- Curriculum Integrated Practicum in Computing (1-2 credit hours)

Additional Electives (3 credit hours each, open to all pathways)

- Real-Time and Embedded Systems
- Internet of Things (IoT)
- Compiler Construction
- Visual Analytics
- Fundamentals of Artificial Intelligence
- Data Mining
- Ethical and Social Implications of Data

View more courses at online.marquette.edu/stem/curriculum.