

Predict trends. Improve outreach.

Online Master of Science in Health Care Data Analytics

Use the power of data to change the health care industry. Our HIMSS affiliated program will help students learn how to acquire and interpret data to transform numbers into meaningful changes across the spectrum of health care.

The online MS in Health Care Data Analytics is a 30-credit interdisciplinary program designed to meet the demands of the rapidly-expanding health care technology sector. Computer science courses compose the program's data analytics core, and health courses provide the context for applying these technical skills. Students will put the training from these courses into use during their final semester practicum when they have the opportunity to apply their knowledge in a mentor-guided experience in a practical health care setting.

Program benefits

- Complete in as few as 18 months
- 3 starts through the year: fall, spring and summer
- Marquette University ranked No. 6 in the nation for job placement¹
- HIMSS approved education partner
- Comprehensive curriculum balanced between computer science and health
- Focus on data science with an ethics and social issue lens
- Flexible, online delivery

Admissions requirements

- Completed [online application form](#)
- \$50 application fee
- Waiver available if you attend an information session or are a Marquette University alumni
- Current and previous transcripts from colleges and universities attended (excluding Marquette)
- GPA of 3.0 or above and/or 2 years of relevant work experience
- If GPA is less than 3.0, applicant will be considered based on academic performance combined with references relevant to successful work experience
- Demonstration of basic information systems competence and statistical literacy*
- Statement of purpose
- Two (2) letters of recommendation
- International students are required to provide a TOEFL score or other acceptable proof of English proficiency

The curriculum

Data Analytics Core (15 credits)

- Visual Analytics (3 credit hours)
- Ethical and Social Implications of Data (3 credit hours)
- Business Intelligence (3 credit hours)
- Business Analytics (3 credit hours)
- Data at Scale (3 credit hours)

Health Care Context (15 credits)

- The Environment of Health Care Delivery (3 credit hours)
- Health Care Informatics, Technology and Professional Issues (3 credit hours)
- Quality Improvement Science in Health Care (3 credit hours)
- Applied Statistics for Health Sciences (3 credit hours)
- Applied Health Data Analytics Practicum (3 credit hours)

*How do I demonstrate competence and literacy in these topics?

Basic information systems competence as demonstrated by:

- A grade of B or above in a previous introductory coding/programming course at Marquette, OR
- Proof of successful completion of an introductory online Python programming course from an approved provider

Statistical literacy as demonstrated by:

- A grade of B or above in previous introductory statistics course at Marquette, OR
- Proof of successful completion of an introductory online statistics course using R (programming language) from an approved provider

Students can be admitted to the program without meeting these requirements but must show proof of completion of the prerequisite courses prior to the start of the first term in order to continue with the program.

Make meaningful change with Marquette University.

Have questions about earning your master's in computing online? Reach out to an Admissions Advisor at 844-640-0408 or email to learn more.