

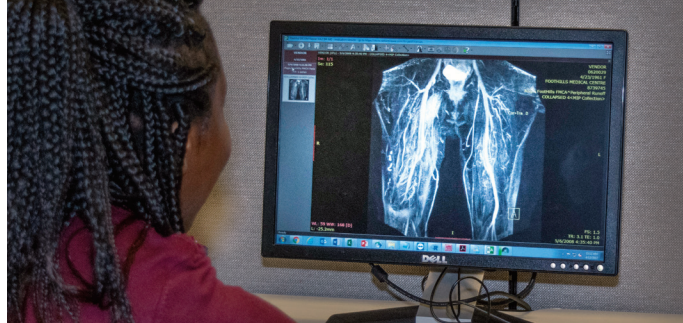
Master of Science in biomedical informatics

Biomedical informatics uses data, information and knowledge to improve human health. The two-year MS program is designed to meet the rapidly growing need for professionals with expertise in informatics, computer sciences and statistics in addition to knowledge of the biomedical sciences and the clinical environment. With your degree, you'll have a key role to play in the transformation to more effective health care through information technology.

The program will enable you to:

- Develop mobile health solutions to monitor health at home.
- Learn personalized medicine and genomics and its impact on diagnostics and therapy.
- Deliver the right health care data and knowledge to clinicians and patients.
- Leverage big data to apply best practices toward better health for populations.
- Use machine learning, natural language processing and other cross-cutting methodologies to enhance human intelligence.

Our degree prepares you for careers in a wide range of health care settings. Graduates are quickly employed in positions such as biomedical analyst, medical information analyst, public health informatics scientist and bioinformatics scientist, among others.



Leverage data and
research to improve
health outcomes.

31% Faster than average
job growth expected
for data scientists and
mathematical science
occupations through 2029

U.S. Bureau of Labor Statistics

ASU is the

#1 producer of students
accepted to the University of Arizona
College of Medicine – Phoenix.

University of Arizona College of Medicine – Phoenix

ASU is among the

best graduate schools
in the U.S.

U.S. News & World Report, 2022

#1 **BEST COLLEGES**
US News
MOST INNOVATIVE
2022
**in the U.S. for
innovation**

ASU ahead of MIT and Stanford

– U.S. News & World Report

7 years, 2016–2022

MS in biomedical informatics curriculum

Core courses provide a background in clinical informatics, while electives allow specialization in focus areas such as data science or mobile health. Round out your education with an applied project where you'll dig deep into theory and practice with a faculty-guided project of your own design.

Core courses

BMI 502/505 Foundations of Biomedical Informatics Methods I and II

A two-semester course surveying the methods and theories underlying the field of biomedical informatics.

BMI 504 Introduction to Clinical Environments

Build your knowledge of medical and health care concepts and terms. Investigate a variety of different clinical environments and report back to the class on your findings.

BMI 515 Applied Biostatistics in Medicine and Informatics

Understand statistical methods used to analyze quantitative data collected in medical and biomedical informatics studies. Learn to use SAS statistical software.

BMI 540 Problem Solving in Biomedical Informatics

Learn the theory and practice of software engineering principles as they apply to large- and medium-scale clinical systems from bench to bedside.

BMI 570 Biomedical Informatics Symposium

Throughout the two-semester symposium, you will hear a dynamic series of speakers twice a month, mixed with intimate student journal club discussions.

BMI 601 Health Informatics

Get an overview of the field of health informatics. Combining perspectives from medicine and computer science, you will learn how both are used in health care and the health sciences.

Culminating experience

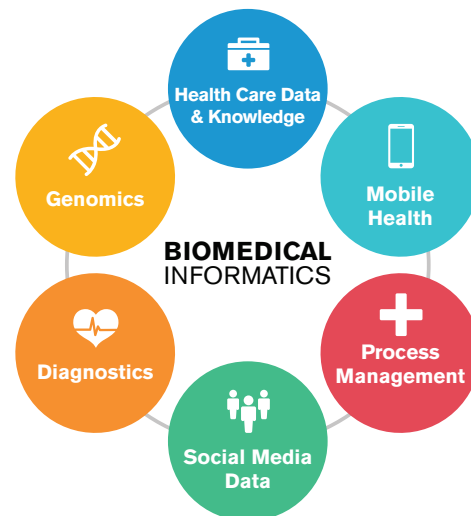
BMI 593 Applied Project

Under the guidance of faculty, you undertake this final effort in your second year. Your applied project can range from pure literature review to applied research in an industry, health care or start-up environment. It's your opportunity to put your knowledge base into use.

4+1

Accelerated master's program

The College of Health Solutions offers an accelerated program designed to enable highly qualified undergraduate majors to earn both a Bachelor of Science degree and a Master of Science degree in five years. Students accepted into this program take designated 400 and 500-level coursework, allowing the student to complete both degrees more quickly. Access the same high-quality coursework while accelerating your path to your career goal.



The **College of Health Solutions** at Arizona State University translates scientific health research and discovery into practice. Its programs **prepare students to address the challenges facing our populations to stay healthy, improve their health, and manage chronic disease** — all toward improving health outcomes.