

BIOMEDICAL INFORMATICS, MBMI

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2023 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.

The Master of Biomedical Informatics (MBMI) program seeks to provide state-of-the-art graduate-level educational and training opportunities in biomedical informatics (BMI), adhering to the best practices as established by national competency standards, to create the next generation of biomedical informatics practitioners.

For more information: <https://www.med.upenn.edu/mbmi/curriculum-overview.html>

Curriculum

The MBMI program requires students to complete 10 course units, including required courses, electives, and a capstone project. In addition, students must complete the online HIPAA and CITI training modules required of all PSOM students. MBMI students are also expected to present at informatics related symposium on campus.

The MBMI course sequence is flexible, allowing students to pursue required courses and electives at their own pace, provided they complete all requirements within four years of matriculation. A typical student might complete the program in two years. Students may request additional time to complete their degree if needed provided they complete the requisite forms and upon approval by the leadership committee.

Code	Title	Course Units
Year 1		
<i>Fall</i>		
BMIN 5010	Introduction to Biomedical and Health Informatics	1.0
BMIN 5030	Data Science for Biomedical Informatics	1.0
<i>Spring</i>		
BMIN 5020	Database and Data Integration in Biomedical Research	1.0
BMIN 5050	Precision Medicine and Health Policy	1.0
Select one elective ¹		1.0
Year 2		
<i>Fall</i>		
BMIN 5060	Standards and Clinical Terminologies	0.5
BMIN 5070	Human Factors	0.5
Select one elective ¹		1.0
<i>Spring</i>		
HPR 6110	Implementation Science Institute	1.0
BMIN 5040	Special Topics in Biomedical and Health Informatics	1.0
BMIN 9900	Capstone	1.0
Total Course Units		10

¹ A complete list of pre-approved electives can be found here (<https://www.med.upenn.edu/mbmi/course-descriptions.html>).