

# HEALTH INFORMATICS, MINOR

consult with their academic program regarding final certifications and requirements for graduation.

The emerging field of health informatics is growing in relevance and influence as technologies continue to improve. Our program focuses on concepts and issues surrounding technology and information management in today's ever-changing healthcare environment. This minor is a perfect complement to advanced practice, administrative, and leadership Master's programs.

**For more information:** <http://www.nursing.upenn.edu/health-informatics-minor/>

## Curriculum

A total of four course units is required. We also provide a sample plan of study (<https://www.nursing.upenn.edu/health-informatics-minor/plan-of-study/plan-of-study/>) for students.

Code	Title	Course Units
<b>Core Courses</b>		
NURS 5730	Innovation in Health: Foundations of Design Thinking	1
NURS 6510	Healthcare Informatics (Online)	1
BMIN 5020	Database and Data Integration in Biomedical Research	1
<b>Elective Courses</b>		
Select one of the following:		1
NURS 8490	Exploring Data Science Methods with Health Care Data	
NURS 5480	Negotiations in Healthcare	
BMIN 5010	Introduction to Biomedical and Health Informatics	
BMIN 5030	Data Science for Biomedical Informatics	
BMIN 5060	Standards and Clinical Terminologies	
DYNAM 6460	Race, Ethnicity, and the American Workplace	
DYNAM 6660	Systems and Design Thinking	
HCMG 8660	The Digital Transformation of Health Care	
HCMG 8570	Healthcare Data and Analytics	
NURS 6120	Principles and Practice of Healthcare Quality Improvement	
	or HQS 6120 Principles and Practice of Healthcare Quality Improvement	
NURS 6500	Systems Thinking in Patient Safety	
	or HQS 6500 Systems Thinking in Patient Safety	
CIS 5190	Applied Machine Learning	
CIS 5600	Interactive Computer Graphics	
CIS 5450	Big Data Analytics	
ESE 5450	Data Mining: Learning from Massive Datasets	
<b>Total Course Units</b>		<b>4</b>

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2024 and later. Students should