BIOMEDICAL AND HEALTH INFORMATICS PROGRAM (GRAD)

The Biomedical and Health Informatics program is an interdisciplinary program that administers the master of professional science in biomedical and health informatics and the doctor of philosophy in health informatics.

The programs offered by the Biomedical and Health Informatics Program are:

- M.P.S. in Biomedical and Health Informatics (p. 1) – Residential
- M.P.S. in Biomedical and Health Informatics (p. 1) – Online
- Ph.D. in Health Informatics (p. 1)

Professional Science Master's in Biomedical and Health Informatics

Students must complete the biomedical and health informatics general core and either the clinical informatics track (p. 1) or the public health informatics track (p. 1).

For more information about the professional science master's in biomedical and health informatics, see the Professional Science Master's Program (https://chip.unc.edu/mps-bmhi/).

General Core

Code	Title	Hours
General Informatics Core		
6 credit hours:		6
INLS 582	Systems Analysis	
INLS 523	Introduction to Database Concepts and Applications	
6 credit hours from the following list:		6
INLS 541	Information Visualization	
INLS 560	Programming for Information Science	
INLS 572	Web Development I	
INLS 641	Visual Analytics	
INLS 573	Mobile Web Development	
INLS 623	Database Systems II: Intermediate Databases	
INLS 718	User Interface Design	
INLS 760	Web Databases	
Business Skills Courses		
6 credit hours from the following list:		6
GRAD 725	Build Your Professional Brand: Develop Job Search Skills and Materials to Make Employers Notice You	
GRAD 710	Professional Communication: Writing	
GRAD 711	Professional Communication: Presenting	
GRAD 712	Leadership in the Workplace	
GRAD 713	Applied Project Management: Frameworks, Principles and Techniques	
GRAD 714	Introduction to Financial Accounting	
Biomedical and Health Informatics Core		
6 credit hours:		6
HPM 754	Health Care in the United States Structure and Policy	
CHIP 725	Electronic Health Records	
Clinical Informatics track or Public Health Informatics track		**11**
Total Hours		**35**

Clinical Informatics

These courses are required in addition to the Biomedical and Health Informatics core for the Clinical Informatics Track.

Code	Title	Hours
Biomedical and Health Informatics General Core		**24**
Clinical Informatics Track Core		
5 credit hours:		5
NURS 870	Applied Health Informatics in Complex Health Care Systems	
CHIP 770	Health Informatics Seminar	
CHIP 770	Health Informatics Seminar	
Clinical Informatics Track Elective		**3**
3 hours of elective coursework (variability depends on semester):		3
INLS 515	Consumer Health Information	
NURS 874	Improving Quality, Safety and Outcomes in Complex Health Care Systems	
Clinical Informatics Internship		
CHIP 793	Health Informatics Internship	
Total Hours		**35**

Public Health Informatics

These courses are required in addition to the Biomedical and Health Informatics core for the Public Health Informatics tack.

Code	Title	Hours
Biomedical and Health Informatics Core		**24**
Public Health Informatics Core		
5 credit hours:		5
CHIP 770	Health Informatics Seminar	
CHIP 770	Health Informatics Seminar	
HPM 620	Implementing Health Informatics Initiatives	
3 hours of elective coursework (variability depends on semester):		3
HPM 760	Healthcare Quality and Information Management	
PUBH 712	Global Health Ethics	
PUBH 714	Introduction to Monitoring and Evaluation of Global Health Programs	
BIOS 511	Introduction to Statistical Computing and Data Management	
Public Health Informatics Internship		
3 credit hours:		3
CHIP 793	Health Informatics Internship	
Total Hours		**35**

Ph.D. in Biomedical and Health Informatics

The Biomedical and Health Informatics Program offers a Ph.D. in biomedical and health informatics (p. 1). The interdisciplinary

program allows students to focus on the areas of study which they feel will best prepare them to become leaders in the field of biomedical and health informatics. All graduates of the Ph.D. program are exposed to data management, analytics and visualization principles as well as research methods, project management and leadership skills. Graduates will be prepared to become researchers in academic or industry settings. They will also be prepared for leadership roles in public and private health care organizations or government agencies.

The Ph.D. program requires a minimum of 55 credit hours across the five pillars of the curriculum; designed to be completed in 4–5 years.

Contact Information

Carolina Health Informatics Program
Visit Program Website (http://chip.unc.edu/)