

# CAROLINA HEALTH INFORMATICS PROGRAM (GRAD)

## Contact Information

**Carolina Health Informatics Program**  
<http://chip.unc.edu/>

The Carolina 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 Carolina Health Informatics Program are:

- M.P.S. in Biomedical and Health Informatics (p. 1)
- 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 (<http://catalog.unc.edu/graduate/schools-departments/professional-science-masters-programs>).

### General Core

#### General Informatics Core

INLS 523	Introduction to Database Concepts and Applications
INLS 582	Systems Analysis
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	Master of Professional Science Seminar Series
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
GRAD 715	Building Your Leadership Practice
GRAD 720	Team-based Consulting for Technology Commercialization

### Biomedical and Health Informatics Core

HPM 600	Introduction to Health Policy and Management
INLS 725	Electronic Health Records
<b>Clinical Informatics track or Public Health Informatics track 11</b>	
Total Hours 23	

### Clinical Informatics

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

<b>Biomedical and Health Informatics General Core 24</b>	
<b>Clinical Informatics Track Core</b>	
NURS 870	Health Care Informatics
INLS 770	Health Informatics Seminar
<b>Clinical Informatics Track Elective 3</b>	
3 credit hours from the following list:	
INLS 515	Consumer Health Information
NURS 874	Improving Quality, Safety, and Outcomes in Healthcare Systems
<b>Clinical Informatics Practicum</b>	
GRAD 989	Professional Science Master's Internship/Practicum
Total Hours 27	

### Public Health Informatics

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

<b>Biomedical and Health Informatics Core 24</b>	
<b>Public Health Informatics Core</b>	
EPID 795	Introduction to Public Health Informatics
INLS 770	Health Informatics Seminar
HPM 620	Implementing Health Informatics Initiatives
3 hours of elective coursework from the following list: 3	
EPID 766	Epidemiologic Research with Healthcare Databases
EPID 750	Fundamentals of Public Health Surveillance
HPM 625	Diagnosis and Design of Multilevel Intelligence for a Smart Health System
HPM 760	Healthcare Quality and Information Management
ENVR 468	Advanced Functions of Temporal GIS
BIOS 669	Working with Data in a Public Health Research Setting
BIOS 511	Introduction to Statistical Computing and Data Management
<b>Public Health Informatics Practicum</b>	
GRAD 989	Professional Science Master's Internship/Practicum
Total Hours 27	

## Ph.D. in Biomedical and Health Informatics

The Carolina Health Informatics Program offers a Ph.D. in biomedical and health informatics. 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.