CAROLINA HEALTH INFORMATICS PROGRAM (GRAD)

Contact Information

Carolina Health Informatics Program
Visit Program Website (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

Code	Title	Hours
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	Build Your Professional Brand: Develop Job Search Materials and Skills 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	
GRAD 715	Building Your Leadership Practice	
Biomedical and Health Informatics Core		
HPM 600	Introduction to Health Policy and Management	
INLS 725	Electronic Health Records	
Clinical Informatics track or Public Health Informatics track		11
Total Hours		23

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 Inofrmatics Track Core		
NURS 870	Health Care Informatics	
INLS 770	Health Informatics Seminar	
Clinical Informatics Track Elective		3
3 credit hours from the following list:		
INLS 515	Consumer Health Information	
NURS 874	Improving Quality, Safety, and Outcomes in Healthcare Systems	
Clinical Informatics Internship		
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 tack.

Code	Title	Hours
Biomedical and Health Informatics Core		24
Public Health Informatics Core		
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 760	Healthcare Quality and Information Management	
ENVR 468	Temporal GIS and Space/Time Geostatistics for the Environment and Public Health	
BIOS 669	Working with Data in a Public Health Research Setting	
BIOS 511	Introduction to Statistical Computing and Data Management	
Public Health Informatics Internship		
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.