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:
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:
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

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.

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 Practicum
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.

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:
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

Public Health Informatics Practicum
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.