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. 2)

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

**General Informatics Core**

- 6 credit hours:  
  - CHIP 490 Selected Topics (CHIP 490-311 Systems Analysis in Healthcare)
  - CHIP 490 Selected Topics (CHIP 490-297 Database Systems in Healthcare)

- 5 elective credit hours (variability depends on semester):
  - INLS 541 Information Visualization
  - 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 (variability depends on semester):  
  - 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 Foundations**

- 6 credit hours: 
  - CHIP 490 Selected Topics (CHIP 490-261 Health Care Systems in the U.S.)
  - CHIP 725 Electronic Health Records

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<th>Clinical Informatics track or Public Health Informatics track</th>
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<td><strong>Total Hours</strong></td>
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### Clinical Informatics

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

#### Code   Title

**Biomedical and Health Informatics General Core**

- 23

**Clinical Informatics Track Core**

- 6 credit hours:  
  - NURS 870 Applied Health Informatics in Complex Health Care Systems
  - CHIP 490 Selected Topics (Intro to Programming)

**Optional:**

- CHIP 770 Health Informatics Seminar

**Clinical Informatics Track Elective**

- 3 hours of elective coursework (variability depends on semester):  
  - INLS 515 Consumer Health Information
  - NURS 874 Improving Quality, Safety and Outcomes in Complex Health Care Systems

**Clinical Informatics Internship**

- 3

<table>
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### Public Health Informatics

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

#### Code   Title

**Biomedical and Health Informatics Core**

- 23

**Public Health Informatics Core**

- 6 credit hours:  
  - HPM 620 Implementing Health Informatics Initiatives
  - CHIP 490 Selected Topics (Intro to Programming)

**Optional:**

- CHIP 770 Health Informatics Seminar

**Public Health Track Electives**

- 3 hours of elective coursework (variability depends on semester):  
  - 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:  
  - 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/)