**Health Informatics, Minor**

The minor in health informatics prepares students to understand the expanding role of information technology in health care. Doctors, nurses, public health officials, and administrators all interact with information technology and, at times, are intimately involved in the design of information technology solutions to health care issues. Students in the minor learn about the possibilities and limitations of information technology, how its use is changing the health care profession, and how the design of information technology must be performed principally with the users and a range of domain considerations in mind.

The minor is ideally suited for students in programs such as nursing science, public health sciences, and pharmaceutical sciences, as well as students in Bren School majors who wish to gain strong exposure to the domain of health informatics.

The minor includes course work and fieldwork covering a variety of health care settings, including the hospital, doctor’s office, and home care. Students completing the minor will gain practical experience in understanding the health care needs of communities and individuals, and in designing information technology solutions that serve them better.

The minor offers flexibility in the courses that students choose to take, and does not require prior programming experience. While it is possible to enroll in more technical classes, it is also possible to complete the minor without taking courses in programming.

### A. Select three core courses from the following:
- **IN4MATX 171**  
  Introduction to Health Informatics
- **IN4MATX 172**  
  Project in Health Informatics
- **IN4MATX 173**  
  Consumer Health Informatics
  or **IN4MATX 174**  
  Health Data Analytics

### B. Select two Informatics, Technology, and Data Science courses from the following:
- **I&C SCI 4**  
  Human Factors for the Web
- **I&C SCI 10**  
  How Computers Work
- **I&C SCI 20**  
  Invitation to Computing
- **I&C SCI 31**  
  Introduction to Programming
- **I&C SCI 32**  
  Programming with Software Libraries
- **I&C SCI 32A**  
  Python Programming and Libraries (Accelerated)
- **IN4MATX 121**  
  Software Design: Applications
- **IN4MATX 131**  
  Human Computer Interaction
- **IN4MATX 133**  
  User Interaction Software
- **IN4MATX 173**  
  Consumer Health Informatics
  or **IN4MATX 174**  
  Health Data Analytics
- **IN4MATX 143**  
  Information Visualization
- **COMPSCI 111**  
  Digital Image Processing
- **COMPSCI 121/IN4MATX 141**  
  Information Retrieval
- **COMPSCI 122A**  
  Introduction to Data Management
- **COMPSCI 131**  
  Parallel and Distributed Computing
- **COMPSCI 134**  
  Computer and Network Security
- **COMPSCI 145**  
  Embedded Software
- **COMPSCI 171**  
  Introduction to Artificial Intelligence
- **COMPSCI 178**  
  Machine Learning and Data-Mining
- **IN4MATX 151**  
  Project Management
- **IN4MATX 161**  
  Social Analysis of Computing
- **IN4MATX 162W**  
  Organizational Information Systems
- **STATS 7**  
  Basic Statistics
- **STATS 8**  
  Introduction to Biological Statistics
- **STATS 67**  
  Introduction to Probability and Statistics for Computer Science

### C. Select two Health Sciences courses from the following:
- **PUBHLTH 1**  
  Principles of Public Health
- **PUBHLTH 2**  
  Case Studies in Public Health Practice
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PUBHLTH 91</td>
<td>Disparities in Health Care</td>
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<tr>
<td>PUBHLTH 101</td>
<td>Introduction to Epidemiology</td>
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<tr>
<td>PUBHLTH 122</td>
<td>Health Policy</td>
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<tr>
<td>PUBHLTH 127</td>
<td>Public Health Programs for the Corporate World</td>
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<tr>
<td>PUBHLTH 125</td>
<td>Foundations of Community Health</td>
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NOTES: A student must earn a grade of C or better in all courses used to satisfy the requirements of this minor. Students who take both IN4MATX 173 and IN4MATX 174 can count one of them toward either section B or C.

- Digital Information Systems, Minor
- Game Design and Interactive Media, B.S.
- Informatics, B.S.
- Informatics, M.S.
- Informatics, Minor
- Informatics, Ph.D.
- Master of Human Computer Interaction and Design
- Master of Software Engineering
- Software Engineering, M.S.
- Software Engineering, Ph.D.