Health Informatics, M.S.

COLLEGE OF PUBLIC HEALTH (http://cph.temple.edu)

About the Program
The innovative, interdisciplinary, and state-of-the-art M.S. in Health Informatics program is an applied graduate degree that focuses on the design, development, and implementation of electronic health record (EHR) systems in health care to serve the tenets of patient privacy, quality of care, and research. The M.S. in Health Informatics is designed for physicians, nurses, therapists, health information management practitioners, administrators, and information technology professionals. The program is offered in collaboration with the Department of Management Information Systems in the Fox School of Business and Management.

Time Limit for Degree Completion: 5 years

Campus Location: Health Sciences Center, Main, Center City

Full-Time/Part-Time Status: This program for working professionals is designed for part-time study. Classes are offered weekday evenings. Although some courses may be offered online, the interaction between disciplines from both the faculty and student perspectives is a key component of the degree's design.

Interdisciplinary Study: The degree program is interdisciplinary in nature, drawing on studies in both the health professions and the business field.

Accreditation: The curriculum meets the curricular requirements of the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM), which is the accrediting body of the American Health Information Management Association (AHIMA). It is expected that Temple University will have one of the first accredited master's programs in the nation.

Job Prospects: Graduates typically utilize their knowledge in their careers as physicians, nurses, therapists, health information management practitioners, administrators, and information technology professionals.

Non-Matriculated Student Policy: Students with an undergraduate GPA of 3.0 or above may be allowed to take classes on a non-matriculated basis. Non-matriculated students may take a maximum of 9 credits. Any additional courses require the student to be matriculated in a program.

Financing Opportunities: Students in the HIM program are generally working professionals. Therefore, funding for assistantships and academic internships is limited.

Admission Requirements and Deadlines

Application Deadline:

Fall: March 1
Spring: November 1

Applications are processed as they are received throughout the year. Late applications may be considered for admission.

APPLY ONLINE to this graduate program.

Letters of Reference:
Number Required: 2

From Whom: For regular standing, recommendations should be obtained from faculty and professionals familiar with the applicant's academic competence and/or professional work experience. The official "Reference Report for Graduate Study," found at http://www.temple.edu/grad/admissions/documents/Web_GRAD_REFERENCE_REPORT.pdf, should be forwarded by the applicant to all referees along with a stamped envelope addressed to:

• Joe Hines
• Temple University Department of HIM
• 3307 North Broad Street
• Philadelphia, PA 19140-5101

Coursework Required for Admission Consideration: If necessary, the following prerequisites may be taken in the Summer prior to beginning the master's degree program:
HIM 5001  Health Information  3
HIM 5002  Clinical Info Systems  3
HIM 5004  Introduction to Health Care Delivery  3

Bachelor's Degree in Discipline/Related Discipline: A baccalaureate degree or its equivalent, as recognized by Temple University, from an accredited post-secondary institution is required.

Statement of Goals: Demonstrate your professional writing ability as you address your interest in obtaining the degree and how it will meet your career goals.

Standardized Test Scores:
GRE: Required. Quantitative and verbal scores should be in the 50th percentile or above.
TOEFL: 79 iBT or 550 PBT minimum

Computer Competency Examination: A computer competency examination is administered by the HIM Department. Applicants must achieve a passing score of 74% or above.

Supporting Materials: All application materials should be submitted together in one complete packet to:

- Joe Hines
- Temple University Department of HIM
- 3307 North Broad Street
- Philadelphia, PA 19140-5101

All inquiries regarding receipt of materials should be directed to Joe Hines at hlthinfo@temple.edu or 215-707-4811.

Program Requirements

General Program Requirements:
Number of Didactic Credits Required Beyond the Baccalaureate: 30

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 8001</td>
<td>IT For EHR Systems</td>
<td>3</td>
</tr>
<tr>
<td>HIM 8011</td>
<td>Reimbursement Systems</td>
<td>3</td>
</tr>
<tr>
<td>HIM 8027</td>
<td>EHR Ethics Legl Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>HIM 8028</td>
<td>Health Data Standards</td>
<td>3</td>
</tr>
<tr>
<td>HIM 8029</td>
<td>Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HIM 9189</td>
<td>Applied Project</td>
<td>3</td>
</tr>
<tr>
<td>MIS 5001</td>
<td>Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>MIS 5101</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>MIS 5102</td>
<td>Process Improvement and Innovation</td>
<td>3</td>
</tr>
<tr>
<td>OTHR 8509</td>
<td>Leadership in the Health Professions: The Art and Science of Influence</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 30

Culminating Events:
No thesis or other culminating event is required.

Contacts

Department Web Address:
http://cph.temple.edu/him/

Department Information:
Dept. of Health Information Management
420 Jones Hall
3307 N. Broad Street
Philadelphia, PA 19140-5101
hlthinfo@temple.edu
215-707-4811
Mailing Address for Application Materials:
Dept. of Health Information Management
c/o Joe Hines
3307 N. Broad Street (602-00)
Philadelphia, PA 19140-5101

Department Contacts:
Admissions:
Joe Hines
hlthinfo@temple.edu
215-707-4811

Courses

HIM 5001. Health Information. 3 Credit Hours.
Introduces students to health information management, based on the essential body of knowledge, including the major components of the healthcare delivery system; documentation systems in acute care and specialty sites; and, medical legal and ethical aspects of information systems.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

HIM 5002. Clinical Info Systems. 3 Credit Hours.
Introduces students to clinical information systems, including introduction to a common body of knowledge, essential to the foundation of the EHRS. Covers components of coding and health care financial management. Clinical data management will be reviewed, including managing the coding function in healthcare organizations; uniform data sets; evaluation of coding and quality assurance of data; DRGs and other case mix systems; and registries and specialized databases.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

HIM 5003. Mgt Systems in Hlthcare. 3 Credit Hours.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

HIM 5004. Introduction to Health Care Delivery. 3 Credit Hours.
The health care delivery system is studied, with a focus on issues related to access, cost and quality. System components are examined including: important values and beliefs; the historical development of the health care system and the current status; health services financing; the role of health care professionals; the use of technology; outpatient, primary care, inpatient, managed care, long-term care and integrated services; issues for special populations; the process and purpose of health policy; and, future options for the delivery system.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

HIM 8001. IT For EHR Systems. 3 Credit Hours.
This course provides an introduction to the development of electronic health record systems (EHRS). The course recognizes that the management of the electronic health record is increasingly important as a result of national healthcare policy, increased regulatory and external factors, the need for access management and the increased demand for integration and the availability of health information. The course will also consider the various types of health information systems that exist in organizations and serve as feeders to clinical repositories.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
((HIM 5001|Minimum Grade of B-|May not be taken concurrently
AND HIM 5002|Minimum Grade of B-|May not be taken concurrently))
AND (HIM 5004|Minimum Grade of B-|May not be taken concurrently)
OR HIM 5003|Minimum Grade of B-|May not be taken concurrently).

HIM 8011. Reimbursement Systems. 3 Credit Hours.
This course will examine healthcare reimbursement systems. The student will examine complex financial systems and explore the principles of reimbursement as it applies to various types of health care settings. This course will focus on reimbursement and reporting requirements and the student will become familiar with topics such as fraud and abuse, revenue cycle management, charge master, quality and safety-related reimbursement incentive models.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
HIM 8001|Minimum Grade of B-|May not be taken concurrently.
HIM 8012. Managing Health Informatics Systems. 3 Credit Hours.
This course provides an introduction to the effective management of Health Informatics systems. The course focuses on the technical foundations required for the successful management of health informatics systems initiatives with specific regards to an organization's operational and strategic goals and stakeholders. Topics related to the use of IT as a strategic resource, strategic IT plans, the importance of stakeholders in IT programs, networking, interoperability approaches, data security, IT purchase justifications, risk assessments, IT architectures and emerging technologies will be explored.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

HIM 8013. Healthcare Database Management Systems Design, Development, and Analysis. 3 Credit Hours.
Modern life science organizations rely on databases for transaction management, data analysis, outcomes assessment, and to satisfy the internal needs of the organization as well as to satisfy regulatory, legal, and accrediting bodies. The goal of the course is to provide hands-on use of database management tools promoting a strong understanding of database design, data modeling and structured query language for data definition and data manipulation, and data analysis tools including pivot tables. In addition, the course will explore operational database systems versus analytic systems, the importance of database design on data integrity, data warehousing, data mining at modern health science organizations. Data formats, collection and integrity as it relates to continual performance improvement, with specific attention to practitioner performance, are also stressed.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites: HIM 8012|Minimum Grade of B|May not be taken concurrently.

HIM 8014. Health Informatics Project Management. 3 Credit Hours.
The development of interoperable electronic health record systems has resulted in increased systems integration, convergence, and complexity. Nearly half of all IT projects fail to meet budget, schedule, and functionality. The course provides a hands-on approach to systems analysis and management of health informatics (HI) projects. Students will be introduced to the concepts of managing HI projects by focusing on initiating, planning, executing, controlling and closing projects in the context of topics such as integration, scope, timing, cost, quality, human resource, technology, communications, and risk and procurement. Students will also be provided an opportunity to analyze functional requirements for HI projects using a variety of process modeling approaches.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites: HIM 8012|Minimum Grade of B|May not be taken concurrently.

HIM 8027. EHR Ethics Legl Advocacy. 3 Credit Hours.
This course focuses on privacy and confidentiality and current legislative and health policy issues for electronic health record systems (EHRs). Ethical issues related to EHRs and advocacy of patients' and consumers' needs are explored.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites: HIM 8001|Minimum Grade of B-|May not be taken concurrently.

HIM 8028. Health Data Standards. 3 Credit Hours.
This course provides an introduction to the principles of healthcare interoperability and provides foundation in healthcare standardization related to: privacy, security, clinical vocabularies, data messaging, architectural framework, data content and the meaningful use of electronic health record systems (EHRs). The course explores the role of healthcare standards in supporting interoperability, patient care, research and the practice of evidence-based medicine. National and international standards development efforts are also discussed.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites: HIM 8001|Minimum Grade of B-|May not be taken concurrently.
HIM 8029. Graduate Seminar. 3 Credit Hours.
Capstone seminar in which students will discuss current and emerging issues related to the EHR and to approaches to life-long learning in the discipline and career of informatics. We hope that this is a fun, high-learning yet low-keyed, interactive way of approaching the more “practical” aspects of Informatics and Health IT.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
(HIM 8001|Minimum Grade of B-|May not be taken concurrently)
AND (HIM 8011|Minimum Grade of B-|May not be taken concurrently)
AND (HIM 8027|Minimum Grade of B-|May not be taken concurrently)
AND (HIM 8028|Minimum Grade of B-|May not be taken concurrently)
AND (MIS 5001|Minimum Grade of B-|May not be taken concurrently)
OR HIM 8012|Minimum Grade of B-|May not be taken concurrently)
AND (MIS 5101|Minimum Grade of B-|May not be taken concurrently)
OR HIM 8013|Minimum Grade of B-|May not be taken concurrently)
AND (MIS 5102|Minimum Grade of B-|May not be taken concurrently)
OR HIM 8014|Minimum Grade of B-|May not be taken concurrently).

HIM 8050. Special Topics in Health Informatics. 3 Credit Hours.
This course provides students the opportunity to explore new and emerging areas in the field of health informatics, to gain a deeper understanding of a specific area within the field. This course may also be used to present areas of study not normally taught in the program.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate

Repeatability: This course may be repeated for additional credit.

HIM 9082. Independent Study in Health Informatics. 1 to 3 Credit Hour.
This course provides students the opportunity to work independently under the direction of a faculty advisor to gain a deeper understanding of an area in Health Informatics.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate

Repeatability: This course may be repeated for additional credit.

HIM 9189. Applied Project. 3 Credit Hours.
The Applied Project Field Study course serves as the Capstone Project for the Master of Science in Health Informatics. Students will develop an applied research project that focuses on a specific discipline of health informatics such as topics relating to the Electronic Health Record, Health Information Exchange, Meaningful Use, Ethical/Legal and etc.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate

Repeatability: This course may be repeated for additional credit.

Pre-requisites:
(HIM 8001|Minimum Grade of B-|May not be taken concurrently)
AND (HIM 8011|Minimum Grade of B-|May not be taken concurrently)
AND (HIM 8027|Minimum Grade of B-|May not be taken concurrently)
AND (HIM 8028|Minimum Grade of B-|May not be taken concurrently)
AND (MIS 5001|Minimum Grade of B-|May not be taken concurrently)
OR HIM 8012|Minimum Grade of B-|May not be taken concurrently)
AND (MIS 5101|Minimum Grade of B-|May not be taken concurrently)
OR HIM 8013|Minimum Grade of B-|May not be taken concurrently)
AND (MIS 5102|Minimum Grade of B-|May not be taken concurrently)
OR HIM 8014|Minimum Grade of B-|May not be taken concurrently)
AND (OTHR 8509|Minimum Grade of B-|May not be taken concurrently).