Health Information Mgmt & Tech (HIMT)

Courses

HIMT 300. Survey of Contemporary Computing. 3 Credits.
This course provides a basic overview of contemporary information technology and computers. Topics include computer concepts (e.g., hardware, system architectures, operating systems, etc.), communication technologies, Internet technologies, and data organization/structures. Special emphasis placed on database management systems and data warehousing,
P: HIMT major, Junior standing
Fall and Spring.

HIMT 301. Digital Literacy in Healthcare. 3 Credits.
This course provides an overview of medical clinical workflow, with emphasis on inter-professional electronic documentation and functionalities of the electronic health record (EHR). Through hands-on experience, this course advances the students' understanding of the electronic health record, Health IT policies, data and database management systems in support of the EHR.
Fall Only.

HIMT 310. Healthcare Systems and Organizations. 3 Credits.
This course provides an overview of how healthcare and public health are organized and how their services are delivered in the United States (US). Topics to be covered include: public policy (including US health reform initiatives), organization of healthcare systems, components and operation of healthcare organizations including e-health delivery, professional roles and accreditation, legal and regulatory issues including licensure requirements.
P: HIMT major, Junior standing
Spring.

HIMT 320. Survey of Information Technology in Healthcare. 3 Credits.
Essential healthcare information technologies (HIT) that are used for healthcare information systems (HISs) are examined. Popular HISs include electronic medical record systems (EMRS), the computerized provider order entry systems, telemedicine, telehealth and e-prescribing.
P: HIMT Major; Junior standing
Fall Only.

HIMT 330. Healthcare I: Terminology & Body Systems. 3 Credits.
Specific terminology and vocabulary used by workers in healthcare and public health will be examined. Topics include medical terminology that broadly relates to human anatomy and physiology, body systems and diagnosis, including prefixes, suffixes, roots and combined forms. Topics will also include healthcare taxonomies and nomenclatures (e.g. ICD-9-CM, ICD-10, etc.).
P: Biology 201/202 with a C or better or Hum Biol 102 with a C or better; HIMT Major and Junior standing
Fall and Spring.

HIMT 340. Ethical issues, Security Management and Compliance. 3 Credits.
This course introduces three broad subjects: 1? evidence-based medical ethics pertaining to healthcare information management, 2) framework of healthcare information security management including security principles, policies and procedures, security management models, risk assessment, and protection mechanisms, 3) healthcare regulations and compliance with focuses on the legislative systems, policies, and legal environment in the U.S. and the existing health information laws, regulations and standards. Also addressed are the elements and development of compliance programs.
P: HIMT Major; Junior standing
Fall and Spring.

HIMT 345. Programming and Software Development. 3 Credits.
Fundamental concepts of programming using a contemporary data analysis language. Topics include variables, conditional execution, functions and methods, iteration, strings, files, and data structures. Applications will be taken from the Healthcare Information Systems.
P: HIMT 301 or conc enr; HIMT major; Junior standing
Fall Only.

HIMT 350. Statistics for Healthcare. 3 Credits.
This is an introductory course in statistical methods for the health sciences. The course will emphasize the principles of statistical reasoning, underlying assumptions, hypothesis testing, and careful interpretation of results. Some topics covered; major study designs, descriptive statistics, graphical displays of data, probability, confidence intervals and tests for means, differences of means, sample size and power, differences of proportions, chi-square tests for categorical variables, regression, multiple regression, and non-parametric statistics.
P: MATH 101, HIMT major, Junior standing
Spring.

HIMT 355. Principles of Management for HIMT Professionals. 3 Credits.
This course provides an overview of basic principles involved in management and communication. Topics include basic management principles, communication skills, interpersonal communication competence, negotiation technique, team/consensus building, professional development, and problem solving/decision-making processes.
P: HIMT Major, Junior standing
Fall Only.

HIMT 360. Healthcare II: Survey of Disease & Treatments. 3 Credits.
This course further investigates the topics covered in HIMT 330 Health Care I. Based on each body system the course will further expand into the topics of human disease, human health issues and classification of disease/health issues. Diagnostics, Treatment and Clinical procedures that are currently in practice. In addition, the course will incorporate Pharmacotherapeutic concepts (drugs and therapies to treat/prevent/control human disease/health issues), investigating the variety of drugs used for disease treatment for each body system, this will include the current biologicals that are used for treatment. Topics will include how the drugs and biologicals work, their limitations, and the current diversity of available drugs and biologicals.
P: HIMT 330, HIMT major, Junior standing
Fall Only.

HIMT 365. Healthcare Economics. 3 Credits.
Applications of microeconomic theory to analyze the behavior of health and health care markets. Topics will include: supply and demand of health care services, private health insurance markets, government provision of health care services and health insurance, and health care policy.
P: HIMT Major, Junior standing
Spring.

HIMT 370. Healthcare Systems: Analysis & Design. 3 Credits.
This is the first course in a two-course sequence that addresses methods and techniques of healthcare information system (IS) analysis and design as performed within the system development life cycle. Included will be techniques for problem definition, requirements gathering, analysis, logical design, selection and evaluation of alternative healthcare information systems solutions from the point of view of the health provider and user. An emphasis is placed on analysis, selection, and evaluation of information systems as they relate to healthcare.
P: HIMT 301, HIMT major, Junior standing
Fall and Spring.

HIMT 375. Database Structures and Management Systems. 3 Credits.
Analyze and design databases to support computer-based information systems. Develop and implement relational database management systems using SQL. Topics include: data modeling techniques such as entity-relationship modeling, extended entity-relationship modeling, database constraints, database normalization techniques, and basic and advanced features of database query language SQL, etc.
P: HIMT 345, HIMT major, Junior standing
Spring.

HIMT 380. Healthcare Billing, Coding and Reimbursement. 3 Credits.
This course examines the coding and reimbursement connection; topics include managed care plans, prospective payment systems, Medicare-Medicaid reimbursement, resource-based Relative Value Scale, case mix management, and revenue cycle management.
P: HIMT 330 & HIMT 360, HIMT major, Junior standing
Fall and Spring.

HIMT 400. Healthcare Information and Technology - Data. 3 Credits.
This course explores the sources and data contents of health-care information as well as the proper presentation of it for different usage levels. Topic addressed include: 1) data structure and use of health information (individual, comparative and aggregate), 2) type and content of health record, 3) data quality assessment, 4) secondary data sources, 5) healthcare data sets, 6) Health information archival systems, and 7) National Healthcare Information Infrastructure (NHII). The course will also cover topics in bioinformatics.
P: HIMT 360; HIMT major; Junior standing
Fall and Spring.

HIMT 410. Healthcare Sytems: Implementation and Integration. 3 Credits.
Covers the back-end stages of healthcare systems development lifecycle through the procurement route: development of technical design specifications, procurement procedures (RFP, RFQ, vendor evaluation and selection, and contracting), systems configuration and integration, installation, conversion, operation, and maintenance. Pre-installation testing and post-conversion auditing and monitoring will be emphasized to address the upcoming requirements of federal certification of EHR systems.
P: HIMT 301, HIMT 370, HIMT major, Junior standing
Spring.

HIMT 415. Human Resource Management in Healthcare. 3 Credits.
This course examines the role of HIM staff in managing human resources to facilitate staff recruitment, retention and supervision.
P: HIMT Major, Junior standing
Spring.

HIMT 420. Healthcare Systems: Project Management. 3 Credits.
This course addresses the phenomenal impact information system (IS) projects have had on healthcare delivery. Students learn how healthcare IS projects affect organizations, doctors, patients, and chronic-illness treatments, as well as individuals interested in managing their own healthcare. Concepts and tools for effective healthcare IS project management, process re-engineering and work redesign are introduced. The purpose of this course is to expose students to IS project management activities in healthcare settings. Topics covered include recent healthcare IS project trends, budgeting, scheduling, resource management, scope, risk analysis, and deployment controls. The genesis of healthcare project management is covered using specific cases and examples.
P: HIMT Major, Junior standing
Fall and Spring.

HIMT 425. Data Warehousing and Mining. 3 Credits.
Examine the concept of data warehouse and its effectiveness in supporting strategic decision making. Address the process of creating data warehouse/data-mart solutions from the identification of the enterprise informational and analytical needs to producing business intelligence by extracting information from the data warehouse by using data mining methods and models.
P: HIMT 375; HIMT major; Junior standing
Fall Only.

HIMT 430. Quality Assessment and Improvement. 3 Credits.
This course examines the Quality Assessment and Quality Improvement cycle (Plan, Do, Act, Check) and the role of the HIT/HIM in the process. Tools used in quality and risk management processes will be examined.
P: HIMT 350, HIMT major, Junior standing
Fall and Spring.

HIMT 435. Data Communications and Networks in Healthcare. 3 Credits.
This course provides fundamentals of data communications and networking techniques, and examines the linkage of information technology strategies and technological solutions enabling effective communication within and between health care organizations. Major topics include fundamental concepts of data communications and applications, network communication devices, basic technologies of the Local Area Network, Wireless Local Area Network, Wide Area Network, Internet and the Web, the OSI stack, health care information systems standards, and the HIE, RHIN, and the NHIN.
P: HIMT 301, HIMT major, Junior standing
Spring.

HIMT 440. Group Processes, Team Building and Leadership. 3 Credits.
This course introduces students to the necessary group/team processes that are at the root of building, developing, and maintaining medical/healthcare work teams and the effective functioning of such teams. The course also provides an overview of leadership development techniques. Also included is a focus on the uses of various communication technologies in the team building and functioning processes.
P: HIMT Major; Junior standing
Spring.

HIMT 445. Application of Leadership & Management in Healthcare Technology. 3 Credits.
This course assimilates and integrates concepts and applications of management and leadership in the healthcare advancing on the topics covered in HIMT 355, 365 and 415. Topics will include strategic leadership concepts, exploring key factors that impact management and planning, change management, critical organizational behaviors for leadership and management focusing on best practices and organizational accountability and assessment models.
P: HIMT 355, HIMT 365 & HIMT 415; HIMT major; Junior standing
Fall Only.

HIMT 450. Healthcare Information and Technology - Standards. 3 Credits.
This course will be an introduction to healthcare information technology standards including standards and regulations for documentation, and will cover health information standards. The course will also investigate soft-ware applications and enterprise architecture in health-care and public health organizations.
P: HIMT major; Junior standing
Fall Only.

HIMT 489. Pre-Capstone. 1 Credit.
This is a one-credit course that is intended to serve as an orientation for the HIMT 490 Capstone course as well as a credentialing exam prep course. The Pre-Capstone will help you get more comfortable with all that's involved in the Capstone experience. HIMT 489 will also help prepare you for the upcoming credentialing exam(s) that you will be sitting for (in particular, the RHIA and CAHIMS exams). Please look through the content and discover the steps you need to take to be successful. Take special note of the deadlines and requirements for submitting your documents. Those deadlines are very important. This is a Pass/Fail course. It is a pre-requisite for HIMT 490.
P: HIMT Major; Junior standing. REC: Course must be taken in semester just prior to taking HIMT 490
Fall and Spring.

HIMT 490. Capstone. 3 Credits.
This course is capstone course for both tracks of the degree program. Students are required to find an internship site that is related to healthcare and set up a semester long project from which they can gain hands-on experience in the areas of their concentration. Project set-up will be jointly done by the student, site sponsor, and the faculty of this course, whereas internship supervision will be performed by the project supervisor and the course instructor.

P: HIMT 420, HIMT 489; Last semester of program; HIMT Major
Fall and Spring.

HIMT 498. Independent Study. 1-4 Credits.
Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.
P: HIMT major, Junior standing
Fall and Spring.