HIMS - HEALTH CARE INFO MGMT (HIMS)

HIMS U135 Pathophysiology and Pharmacology   3 Credit Hours
Disease etiology and organ system involvement, including physical signs and symptoms, prognoses, and common complications and their treatment. Topics include fundamental principles of disease and pharmacology. The course is restricted to Health Information Management (HIM) majors.

HIMS U141 Procedural Coding   3 Credit Hours
Current Procedural Terminology (CPT) coding, integrating HCPCS Level II, ICD-10-CM and PCS medical coding procedures at an advanced level. Emphasis is on the application and assignment of procedural codes by specialty and body systems. Subject matter includes common coding terminologies, nomenclatures and classification systems used in healthcare delivery, electronic health records, reporting and management, such as International Classification of Diseases (ICD), Healthcare Common Procedures Coding Systems (HCPCS), Current Procedural Terminology (CPT), Systematized Nomenclature of Medicine Clinical Terms (SNOMED), Procedure Coding System (PCS), and Diagnosis Related Groups (DRG) and Logical Observation Identifiers Names and Codes (LOINC).
Prerequisite(s): BIOL U128 and BIOL U129; or consent of instructor.

HIMS U201 Understanding Healthcare Organizations   3 Credit Hours
Introduction to origins and evolution of current healthcare delivery systems and organizational structures, healthcare terminology and language structures, common usage, acronyms, and basic uses of information in a variety of healthcare settings. Topics also include introduction to levels of information users and information needs within a variety of healthcare organizations.
Prerequisite(s): CSCI U138, or CSCI U150, or INFO U101, or consent of instructor.

HIMS U216 Diagnostic Coding   3 Credit Hours
Coding principles and practices on the International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM). Topics include historical development of the ICD classification system, coding of diagnosis records from a variety of medical specialties and use of official coding code lines.
Prerequisite(s): BIOL U128 and BIOL U129; or consent of instructor.

HIMS U250 Fundamentals of Healthcare Administration   3 Credit Hours
Management, communication, and problem-solving, as they relate to human resources, quality assurance, finance, budgeting and reimbursement in a healthcare setting.
Prerequisite(s): Sophomore standing or consent of instructor.

HIMS U301 Health Informatics and Information Systems Applications   3 Credit Hours
Introduction to healthcare information systems to include management and administration information systems, clinical information systems, business information systems, decision support, critical care applications, information systems in education, and emergent system applications. Particular emphasis is placed on automation required for the emerging "paperless" environment and computer-based records.
Prerequisite(s): HIMS U201 or consent of instructor.

HIMS U302 Healthcare Data Management and Information Governance   3 Credit Hours
Data, knowledge, and information structures, terminological control, index language functions, regulatory determinants of data collected/stored (ex. JCAHO/HIPPA, etc.), including study of language development in healthcare systems evolution.
Prerequisite(s): HIMS U301 or consent of instructor.

HIMS U410 Healthcare Quality Improvement   3 Credit Hours
Quality improvement strategies to improve efficiency and effectiveness in healthcare information systems and processes including Six Sigma, DMAIC, process maps, pareto charts, control charts, root cause analysis, and cause and effect diagrams. Quality improvement theoretical frameworks such as Donobedian's structure, process and outcome theory, and Chassin's overuse, misuse and underuse theories are applied. Quality improvement in the context of leadership, person-centered, family-centered care, cost, value, and improvement capability is demonstrated through the completion of the Institute of Healthcare Improvement's modules to earn a "Basic Certificate in Quality and Safety" micro-credential.
Prerequisite(s): HIMS U301 or consent of instructor.

HIMS U412 Legal Aspects of Health Information Management   3 Credit Hours
Selected ethical issues, confidentiality, preservation and conservation of sensitive data, data maintenance and integrity preservation.
Prerequisite(s): PHIL U211 or PHIL U311; and HIMS U302; or consent of instructor.

HIMS U413 Healthcare Technology and the Electronic Health Record   4 Credit Hours
Network configurations and functions including the latest developments and applications in electronic health records (EHR) and the implementation of the EHR in the healthcare industry.
Prerequisite(s): HIMS U302 or consent of instructor.

HIMS U417 Information Privacy and Security   3 Credit Hours
Issues in information management as they relate to the International Information Systems Security Certification Consortium's 10 security domains. The role of the security domains in the context of design, implementation, and maintenance of systems to include the legal and ethical aspects of privacy and security. Case studies covering these roles are included.
Prerequisite(s): Consent of instructor.

HIMS U425 Public Policy Trends in Health Informatics   3 Credit Hours
Current and future trends in health information systems (HIS) and health information technology (HIT) and their impact on public policy, career success in HIS management, health informatics, data analytics, public policy and public health research.
Prerequisite(s): HIMS U302 or consent of instructor.

HIMS U426 Healthcare Finance   3 Credit Hours
Fundamentals of financial management and accounting concepts in the healthcare environment with specific application to the health informatics or health information management professional's everyday roles and responsibilities. Topics include revenue management, cost management, variance management, and contracting.
Prerequisite(s): HIMS U201 and HIMS U302; or consent of instructor.

HIMS U496 Special Topics   3 Credit Hours
Study reflective of current issues/topics related to the field of healthcare information management. Topics might include (but are not limited to) emergent technology in healthcare settings such as user interface design, expert system evolution, virtual environments, soft computing/ fuzzy logic applications, artificial intelligence. Topics chosen for study in a given semester will be determined by the state of the science at the time of the offering.
Prerequisite(s): Completion of 12 hours HIMS courses.

HIMS U498 Practicum in Healthcare Information Management   3 Credit Hours
Supervised professional practice involving information management in a healthcare organization.
Prerequisite(s): Senior standing in the accredited health information management application area.

HIMS U499 Senior Seminar in Healthcare Information Management   3 Credit Hours
Capstone experience integrating knowledge of health information systems, health information management, and health informatics (the combination of health and information technology) and investing current innovations in these technologies in a healthcare setting with emphasis on research, written, and oral presentations.
Prerequisite(s): Senior standing in Health Informatics or consent of instructor.