

HEALTH INFORMATION (HI)

HI501: Health Informatics

Health informatics deals with the resources, devices, and methods required to optimize the acquisition, storage, retrieval, and use of information in health and biomedicine. This course introduces the history and development of health informatics. It focuses on such issues as the structure, function, and transfer of information, sociotechnical aspects of health computing, and human-computer interaction. Students will also explore medical decision making, natural language processing, and knowledge discovery in the clinical setting.

Quarter Credit Hours: 4 | Prerequisite: None

HI510: Health Information Systems

This course is concerned with such issues as information systems analysis, design, implementation, and management. You will explore health IT standards, health information exchanges, and systems thinking and theory as well as the use of artificial intelligence in health information systems. This course also covers the evaluation of processes and systems that ensure compliance with regulatory, governmental, legal, accreditation, and certification requirements for health information technologies.

Quarter Credit Hours: 4 | Prerequisite: None

HI530: Clinical Terminologies and Medical Vocabularies

This course focuses on the use of health care terminologies, vocabularies, and classification systems. You will identify their appropriate uses and sources, and apply them within health information systems to promote effective communications and data integrity.

Quarter Credit Hours: 4 | Prerequisite: None

HI540: Project Management of Health Information Systems

This course explores the technical aspects of health information systems management including issues of systems design and development as well as system support and maintenance. Students will analyze and describe necessary steps in the cycle such as identifying and selecting appropriate systems technology and data standards, creating requirements, evaluating security, and accommodating human factors in design and use. Other topics include terminology, functions, and standards as well as the basics of information architecture and systems infrastructure.

Quarter Credit Hours: 4 | Prerequisite: None

HI550: Organizational Development and Management for Health Information

This course explores organizational behavior, theory, and development as they apply to health information management. Topics include, but are not limited to, performance management plans, strategic forecasting, and public policy.

Quarter Credit Hours: 4 | Prerequisite: None

HI560: Health Care Data Analytics

This course provides foundational skills and knowledge in health care data analytics that will equip you to contribute more effectively to local data analytics and performance improvement efforts.

Quarter Credit Hours: 4 | Prerequisite: None

HI570: Legal and Ethical Issues in Health Information

This course covers data security, privacy, and confidentiality of health information as it relates to information technology and management. Topics include risk management, information security, and data validity and integrity. Students will also examine disaster recovery plans for data and service delivery.

Quarter Credit Hours: 4 | Prerequisite: None

HI580: Information Systems and Technology Management

This course is concerned with such issues as computer networks, database and systems administration, security, and programming. Topics include virtual network applications and storage, system integration tools, principles of data representation, and systems testing and evaluation.

Quarter Credit Hours: 4 | Prerequisite: None

HI595: Master's Capstone in Health Informatics

The capstone course is the culminating experience for the Master of Health Informatics. This course builds on the concepts of all the courses students have taken within the program of study. The capstone course provides students with the opportunity to integrate and synthesize the knowledge and skills acquired through their coursework in an original comprehensive project, and to assess their level of mastery of the stated outcomes of their degree program in health informatics.

Quarter Credit Hours: 4 | Prerequisite: Last term

HI599: Master's Capstone in Health Information Management

The capstone course is the culminating experience for the Master of Health Information Management. This course builds on the concepts of all the courses students have taken within the program of study. The capstone course provides students with the opportunity to integrate and synthesize the knowledge and skills acquired through their coursework in an original comprehensive project, and to assess their level of mastery of the stated outcomes of their degree program in health information management.

Quarter Credit Hours: 4 | Prerequisite: Last term