HEALTH INFORMATICS CERTIFICATE

Overview

This certificate examines electronic medical-health related data that is generated and stored in health care and public health organizations. This concentration provides timely skills to effectively design, integrate, manage, and grow electronic information systems and applications; collect and analyze data; integrate organizational data with government and research data as well as wearable technologies; and application of systems to patient-centered care through the electronic health record (EHR) and patient portals. The rapidly evolving uses for artificial intelligence (AI) will be examined.

The HIM certificate broadens the HMC focus into the field of health informatics, and electronic data management while providing flexibility for students' plan of study. The additional courses align with current healthcare trends, and the needs of a competitive workforce. Through the use of secure health information data, health care benefits from technological advancements that ensure a safer, high quality, coordinated, and affordable delivery model.

Students are equipped with essential skill sets in both health information management and technology that are needed to succeed in today's technology-focused healthcare environments. Studies focus on how to utilize health care data in a manner that will enhance decision making, improve outcomes and support the continuity of care across the health care system continuum.

Learning areas focus on:

- Regulatory federal and state health laws and policies which influence the design and security requirements for an Electronic Health Record (EHR).
- Ethical principles related to the development, implementation, and usage of EHRs such as patient autonomy, beneficence/non-maleficence, privacy, confidentiality, and justice.
- Database technologies and programming languages such as SQL and Java.
- Network principles, design methods and system integration tools that exchange data in a secure manner.
- Business continuity, technical security, data mining, maintenance, virtual networks, and disaster recovery.
- System analysis lifecycle; planning, analysis, design, implementation, and evaluation of healthcare software.
- Understanding how health informatics systems are implemented and used by clinicians to improve the quality and safety of patient centered care.
- Learn about Health Information Exchange (HIE), Population Health, disease mapping, analytics, artificial intelligence, and healthcare trends.

This certificate can be taken as part of the MS Healthcare Management degree/Health Informatics concentration or as a standalone 12 credit certificate in Health informatics.

Requirements for the Health Informatics Certificate are as follows:

Code	Title	Hours
HCM 620	Health Data Management	3
HCM 621	Legal and Regulatory Issues in Health Information Management	3
HCM 622	Health Informatics Systems & Data Infrastructure	3
HCM 623	Health Informatics System Application	3
Total Credits Required		*12*