HEALTH CARE SPECIALIST (HCS)

HCS 100 (2 credit hours)
Public Healthcare in the US
Introduces the organization of US healthcare and public health services including public policy, healthcare and health services, interrelationships, professional roles, legal and regulatory issues, and payment systems. Reviews health reform initiatives in the US. Lecture: 2.0 credits (30 contact hours).
Attributes: Technical
Components: LEC: Lecture

HCS 110 (1 credit hours)
Culture of Healthcare
Covers job expectations and roles of clinical personnel in a healthcare setting. Discusses healthcare organization inside a practice setting, privacy laws, professional and ethical issues encountered in the workplace, and common form of care delivery. Lecture: 1.0 credits (15 contact hours).
Attributes: Technical
Components: LEC: Lecture

HCS 125 (1 credit hours)
History in Healthcare
Introduces the concept of "meaningful use" of electronic health records as well as the development and background of the IT landscape in health care and public health, including experiments from the 1950s and 1960s culminating in the HITECH Act. Lecture: 1.0 credits (15 contact hours)
Components: LEC: Lecture

HCS 145 (1 credit hours)
Health IT Terminology
Explains terminology used by workers in health care, public health, or those who work with Health IT systems including common medical terms, technology systems, health data standards, and clinical terminology. Lecture: 1.0 credits (15 contact hours).
Pre- or co-requisite: AHS 115 or Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 150 (2 credit hours)
Health IT Analysis & Quality
Introduces concepts of Health IT and practice workflow process analysis and redesign. Addresses how establishing a culture to support increased quality and safety is critical in the healthcare environment. Discusses the approaches to assessing patient safety issues, implementing quality management, and reporting through electronic systems. Lecture: 2.0 credits (30 contact hours).
Pre- or co-requisite: CIT 105 AND HCS 145, or consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 165 (2 credit hours)
Health Management Systems
Covers specific health care and public health applications. Introduces Health IT standards, health-related data structures, software applications, enterprise architecture in health care, and public health organizations. Lecture: 2.0 credits (30 contact hours).
Pre- or co-requisite: CIT 105 AND HCS 145, or Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 180 (1 credit hours)
Usability and Human Factors
Introduces rapid prototyping, user-centered design and evaluation, and usability. Emphasizes the effects of new technology and workflow on downstream processes, as well as facilitation of a unit-wide focus group or simulation. Lecture: 1.0 credits (15 contact hours).
Pre- or co-requisite: CIT 105 AND AHS 115 or Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 200 (1 credit hours)
Health IT Computer Systems
Provides an intermediate overview of computer architecture, data organization, representation, structure of programming languages, networking, and data communication about Health IT Systems. Lecture: 1.0 credits (15 contact hours).
Pre- or co-requisite: CIT 105 or Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 210 (3 credit hours)
Implementing Health IT Systems
Introduces the OSI model, including the purpose and content of each of its seven layers as well as hardware, processes, protocols, and tools at each layer. Provides a practical experience that will address approaches to assessing, selecting, and configuring EHRs (electronic health records) to meet the specific needs of customers and end-users. Emphasizes the principles underlying system configuration, including system selection, planning, testing, troubleshooting, and final deployment. Lecture: 3.0 credits (45 contact hours).
Pre- or co-requisite: AHCS 145 or Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 220 (1 credit hours)
Working with HIT Systems
Identifies the components of Health IT systems and their applications. Introduces the potential threats to security and need for standards, high levels of usability, and awareness of how errors can occur. Lecture: 1.0 credits (15 contact hours).
Attributes: Technical
Components: LEC: Lecture

HCS 230 (2 credit hours)
Vendor-Specific Systems
Provides an in-depth discussion in Vendor-Specific Systems, focusing specifically on system and database architectures used in commercial Electronic Health Records (EHRs), vendor strategies for terminology, knowledge management, ways to assess decision support capabilities of EHRs, and vendor-specific training (go-live strategies). Lecture: 2.0 credits (30 contact hours)
Pre- or co-requisite: HCS 200 or Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 260 (1 credit hours)
Health IT Instructional Design
Examines Health IT learning management systems, instructional design software tools, teaching techniques and strategies, evaluation of learner competencies, maintenance of training records, and measurement of training program effectiveness. Lecture: 1.0 credits (15 contact hours)
Pre- or co-requisite: HCS 165 or Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 280 (1 credit hours)
Project Management & Teams
Introduces project management tools and techniques that result in the ability to create and follow a project management plan. Emphasizes the value of being "team players" by understanding roles, the importance of communication, and group cohesion. Lecture: 1.0 credits (15 contact hours).
Attributes: Technical
Components: LEC: Lecture

HCS 281 (1 credit hours)
Health IT Customer Service
Develops customer service skills to encourage effective communication across the team. Introduces roles that will be encountered in healthcare and public health settings. Lecture: 1.0 credits (15 contact hours).
Attributes: Technical
Components: LEC: Lecture

HCS 290 (1 credit hours)
Leadership for Health IT
Develops the processes and skills for leadership roles and effective management of teams. Emphasizes the leadership modes and styles best suited to Health IT system deployment. Lecture: 1.0 credits (15 contact hours).
Pre- or co-requisite: HCS 150 or Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture

HCS 295 (1 credit hours)
Health IT Capstone
Serves as the capstone course for the certificate program. Integrates prior learning outcomes into a single integrated learning experience. Includes preparation for and completion of the end of program assessment for the Health Care Specialist Certificate. Lecture: 1.0 credits (15 contact hours)
Pre- or co-requisite: Consent of Instructor.
Attributes: Technical
Components: LEC: Lecture