



Course Description

HIM2211C | Health Information Technologies | 2.00 credits

This course is designed to examine computer technology used to collect and store health information. The student will learn a variety of applications used to maintain and secure health care data. Prerequisites: HIM1110, 1110L, and 1800.

Course Competencies:

Competency 1: The student will demonstrate knowledge of the role of health information systems and the importance of strategic planning in the healthcare arena by:

1. Discussing the history and preparing electronic health records
2. Explaining the corporation of information technology to health in summarizing computer confidentiality and safety
3. Defining the roles of health information professionals in electronic health information systems
4. Listing factors impacting the transition to electronic health records
5. Creating policy and procedure for social media conduct
6. Identifying health record reports which utilize various data formats (unstructured, texted, structured)

Competency 2: The student will research information systems and network technologies as they relate to healthcare and the integration of electronic health record Systems by:

1. Identifying the system development life cycle
2. Defining a computer network
3. Recognizing the functions of a communications system's components (LAN, WAN, VPN, data interchange HL-7)
4. Listing the characteristics of the mesh, bus, ring, star, and hybrid topologies
5. Troubleshooting fundamental networking problems
6. Discussing RAID, RFID, Prototypes
7. Explaining the importance of groupware
8. Describing the various servers used in healthcare (client, peer, application, communication)
9. Discussing the need for encryption
10. Describing technology applications of telemedicine, voice recognition, and digital imaging
11. Explaining the difference between an analog and digital signal
12. Identifying security concerns related to Internet access
13. Explaining the integration of eDiscovery, eHealth, and eCommerce in the movement of electronic health information

Competency 3: The student will learn basic database and information system data security by:

1. Converting paper documents and pictures to images for document management
2. Creating digital storage devices for authorized disclosure of health information
3. Discussing the generations of programming languages
4. Describing the roles and responsibilities of health information technicians in data security
5. Describing the various databases used in health care
6. Querying and generating reports through software
7. Evaluating and selecting health information systems
8. Discussing data integrity, retrieval, and maintenance
9. Discussing effective security breach management

Learning Outcomes:

- Formulate strategies to locate, evaluate, and apply information
- Use computer and emerging technologies effectively