Course Prefix and Number:  HIM 230  
Credits:  3

Course Title:  Information Systems and Technology in Health Care

Course Description:  Explores computer technology and system application in health care. Introduces the information systems life cycle. Prerequisites: HIM 142 and HIM 130. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose:  This course is designed to provide the student with a general working knowledge of the key technologies used to create information systems and networks for health care purposes.

Course Prerequisites and Co-requisites:
Prerequisites: HIM142 and HIM 130

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Explain usability and accessibility of health information by patients and clinical staff;
b. Describe current trends and future challenges in the exchange of health information;
c. Identify the multiple key components to HIS (health information systems) strategic planning, including software, internal and external networks, data, interoperability, and technology, such as hardware, operating systems, and devices;
d. Describe the information systems life cycle;
e. Describe the purposes, definitions, and scope of health information systems;
f. Define process improvement in the context of health information systems;
g. Explain the key financial management issues with health information systems;
h. Outline the benefits and principles of vendor/contract management for optimal support, maintenance, and performance;
i. Define the main steps in system selection and implementation;
j. Define internal and external sources of data for informatics reporting and analytics purposes; and
k. Apply confidentiality, privacy and security measures, policies, and procedures to protect the use and exchange of electronic health information.

Major Topics to Be Included:
 a. Introduction to health care information systems
 b. Fundamentals of health care information systems
 c. Process improvement for health care information systems
 d. Information systems for managerial and clinical support
 e. Vendor selection/contract management, maintenance, and performance
 f. Information security
 g. Electronic health records confidentiality, privacy, and security
 h. Internal and external data, reports, and analytics
 i. Information systems life cycle

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