

**J. Sargeant Reynolds Community College  
Course Content Summary**

**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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