

Print Date: 10/7/16  
**Course Objectives/Course Outline**  
**Spokane Community College**

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**Course Title:** Electronic Health Records  
**Prefix and Course Number:** HIM 162

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**Course Learning Outcomes:**

**By the end of this course, a student should be able to:**

- Conduct analysis to ensure that documentation in the health record supports the diagnosis and reflects the patient's progress, clinical findings, and discharge status.
- Use technology, including hardware and software, to ensure data collection, storage, analysis, and reporting of information
- Participate in the planning, design, selection, implementation, integration, testing, evaluation, and support for EHRs
- Apply knowledge of database architecture and design (such as data dictionary) to meet departmental needs
- Protect data integrity and validity using software or hardware technology
- Apply the fundamentals of team leadership
- Participate in and work in teams and committees
- Use tools and techniques to monitor, report, and improve processes

**Course Outline:**

**I. Data Analysis and Management**

- A. Identify current needs for tools to manage unstructured health information
- B. Identify how data errors occur
- C. Identify how clinical decision support can resolve risk or anomalies of data
- D. Describe the different repositories and warehouses used to store and gather patient data
- E. Describe electronic document management systems
- F. Identify the steps in workflow re-design
- G. State how data produces information which is then used as knowledge
- H. Describe the formats of EHR data
- I. State how data sets are used in EHR implementation
- J. Briefly describe data registries and their functions
- K. Explain the data mapping process in the HER
- L. Describe the process mapping stage and how this affects EHR implementation III. 4:  
Explain the different types of signatures found in the HER
- M. Define a data dictionary

**II. Compliance**

- A. Describe automated forms processing
- B. Explain how templates are used to gather patient data

**III. Information Technology**

- A. Describe how data is input in the computer and the importance of data quality
- B. Summarize the training process
- C. Describe and demonstrate how databases are used in EHR implementation
- D. Define electronic signature authentication
- E. Explain single sign-on
- F. Recognize the differences and similarities between elements of EHRs in acute and ambulatory settings

- G. Define enterprise content and record management and how it fits into EHR migration
- H. Explain how application functionality plays a role in the system development life cycle
- I. Describe the migration path for the HER
- J. Differentiate between the various EHR systems
- K. Discuss data conversion and go-live
- L. Evaluate the functionality of acute care applications
- M. Describe the migration path for hospitals
- N. Differentiate between the various types of infrastructure preparedness and how human factor may affect the preparedness
- O. Demonstrate how to navigate an EHR to assist in troubleshooting of the software
- P. Describe audit controls
- Q. Express how surveying users is important for an effective functional needs assessment
- R. Explain the need for user satisfaction surveys
- S. Describe the steps in the vendor selection process
- T. Choose a vendor that would meet a facilities need
- U. Identify and briefly describe the analysis step in the system development life cycle
- V. State what step in the system development life cycle would apply to software and system maintenance
- W. Describe the roll-out, turnover, and conversion strategies
- X. Summarize the testing process
- Y. Create a data dictionary

**IV. Quality**

- A. Construct a process map
- B. Describe the various group facilitation techniques (brainstorming, nominal group, etc.)
- C. Describe what functions HIM provides to the SDLC of EHR implementation

**V. Knowledge Statement**

- A. Describe how the ONC has impacted health IT.
- B. Explain what meaningful use is and how it's impacted the implementation of the HER
- C. Describe HL7 and the role it plays in the HER
- D. Differentiate between ICD-9 and ICD-10 coding systems and SNOMED CT, LOINC and RxNORM nomenclatures