Syllabus for HIMT410 Healthcare Systems Implementation and Integration

NOTE: This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

Course Description

This course is organized into 11 lessons and examines the back-end stages of the healthcare system development lifecycle through the procurement route: analysis of current systems and the development of the justification for a systems implementation, development of technical design specifications, procurement procedures (RFP, RFQ, vendor evaluation and selection and contracting), systems configuration and integration, testing, installation, conversion, operation maintenance and post-conversion auditing and monitoring. A look into consumer informatics and its impact on healthcare information systems, health information exchange and interoperability, privacy and security and information and data governance will also be emphasized.

Prerequisite(s)

- HIMT 301 Digital Literacy in Healthcare
- HIMT 370 Healthcare Systems: Analysis and Design

Course Outcomes

At the conclusion of this course, you will able to:

- Create workflow documents that depict organizational processes for healthcare facilities.
- Evaluate electronic applications/systems for clinical classification and coding.
- Create plans for implementation of electronic health records systems.
- Construct models that document the data needs of the enterprise.
- Recommend clinical, administrative, and specialty service applications.
- Distinguish among the functional components of electronic health records systems for different types of healthcare facilities.
- Analyze processes for procurement and system selection.

- Distinguish between interoperability and health information exchange.
- Analyze system architectures, database design, and data warehousing to support clinical applications.
- Distinguish among varying consumer health applications.
- Differentiate between various models for health information exchange.
- Examine various software applications utilized by a HIM department.
- Determine how to implement security measures and safeguards to ensure the protection and integrity of patient data.
- Examine the principles of information and data governance.

Course Requirements/Components

The course consists of the following activities:

- Textbook readings
- Review of complementary textbook slide decks
- Homework assignments (including an EHR Go activity and HealthIT.gov curriculum)
- Quizzes
- Cumulative exams

EHR Simulation

You will each participate in an EHR project simulation hosted through EHR Go. EHR Go is an electronic health record system designed for education. EHR Go simulates common clinical EHR systems such as VistA, Epic, Cerner, and Meditech to help students develop experience needed for real-world healthcare practice. EHR Go includes a full content library with more than 300 diverse and realistic patient cases and discipline-specific student activities. EHR Go is used by all healthcare disciplines at all degree levels and makes it easy to facilitate experiential interprofessional simulations.

Each of you will complete 1 module throughout the course to gain valuable experience using an in-practice EHR system. All EHR Go activities must be submitted by the assigned due date.

EHR Go Activities

Below are the EHR Go activities used in this course. Some activities provided by EHR Go have multiple levels, such as an Associate (AS), Bachelor's (BS), or Master's (MS) level. In those cases, I've provided you with the assignment at the Bachelor's (BS) level.

- **EHR Go Activity #1**: Implementing EHR

Grading

The following grading scale will be used to evaluate all course requirements and to determine your final grade:

Grade	Percentage Range
A	90% - 100%
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	0 - 59%

Assignment	% of Course Grade
10 Quizzes	20
5 Discussions	20
Final Assignment	5
10 Homework Assignments	35
2 Exams	20
Total	**100%**