

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 nine 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 300: Survey of Contemporary Computing
- HIMT 370: Healthcare Systems: Analysis and Design

Course Outcomes

At the conclusion of this course, you will be 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 Components/Requirements

This course has a variety of assessment activities, such as the following:

- Textbook + other assigned readings from industry websites
- Interactive class discussions
- Quizzes to check knowledge comprehension
- Hands-on, authentic homework assignments, such as:
 - New project request
 - Shared governance tools
 - Cost benefit analysis
 - EHR implementation selection
 - EHR implementation teams
 - System testing
 - Training session creation and evaluation
 - Support staff transition plan
 - Business continuity plan
 - Shared Governance Committee presentations

Grading

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

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

Activities	Points
Discussions (4 x 100 pts each)	400
Homework Assignments (12 x 100 pts each)	1200
Quizzes (2 x 100 pts each)	200
Total	1800