

Syllabus for HIMT400

Healthcare Information and Technology Data

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 explores the sources and data contents of healthcare information as well as the proper presentation of it for different usage levels. Topics addressed include (1) data structure and use of health information (individual, comparative, and aggregate); (2) types and content of health records; (3) data quality assessment; (4) secondary data sources; (5) healthcare data sets; (6) health information archival systems; and (7) Strategy of the Office of the National Coordinator for Health Information Technology (ONC). Students will engage in a variety of learning activities, addressing issues related to and generating reports from healthcare data. Students will gain knowledge and skills in the acquisition, storage, maintenance, and use of healthcare data.

Prerequisite(s)

HIMT 360 Healthcare II: Survey of Disease and Treatments

Course Outcomes

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

- Utilize classification systems, clinical vocabularies, and nomenclatures.
- Distinguish between data governance and information governance.
- Evaluate and recommend strategies for compliance of health record content.
- Explain the concepts of interoperability.
- Manage data within a database system.
- Examine the field of informatics, as it is applied in healthcare.
- Understand health information exchange (HIE) in the context of its anticipated function as an instrument of transformation in the delivery of healthcare services.

Course Requirements/Components

Learning activities and assessments incorporated into this course include EHR-Go Knowledge Activities, discussion board items, quizzes, case studies, written responses, projects, and a written report. These activities are the responsibility of each individual student; however, discussion and interaction with other students and the instructor are always encouraged.

Discussions

There are three graded Discussion activities within this course (see course calendar for due dates). Each Discussion activity (like all other assessments) closes Sunday at 11:59pm CST the week it is scheduled for. The instructor will review student response postings associated with the topics and evaluate individual contributions to the Discussion. Students are encouraged to monitor postings on Discussion board topics/questions, submit multiple responses, and clarify postings.

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 15 modules 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:** Analyzing for Chart Deficiencies
- **EHR Go Activity #2:** Classification and Terminology Systems
- **EHR Go Activity #3:** Query - Basic Orientation
- **EHR Go Activity #4:** Query - Advanced Orientation
- **EHR Go Activity #5:** Query - Readmission Analysis
- **EHR Go Activity #6:** MPI Duplication Analysis
- **EHR Go Activity #7:** Implementing Clinical Decision Support

- **EHR Go Activity #8:** Orientation to Data Analytics I
- **EHR Go Activity #9:** Applied Data Analytics II
- **EHR Go Activity #10:** Applied Data Analytics III
- **EHR Go Activity #11:** Orientation to Data Visualization IV
- **EHR Go Activity #12:** Clinical Reminder Data Visualization V
- **EHR Go Activity #13:** Cause and Effect: CDS Evaluation
- **EHR Go Activity #14:** Query - Pneumonia Outcomes
- **EHR Go Activity #15:** Retrieval of Data

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	Points
Quizzes (2 x 20 pts)	40
Discussion Board Activities (3 x 20 pts)	60
Written Response/Short Answer (5 x 30 pts)	150
Written Report (1 x 60 pts)	60
Case Studies (4 x 30 pts)	120
EHR Go Knowledge Activities (15 x 40 pts)	600
Projects (2 x 60)	120
Total	1150