

Syllabus for HIMT375

Database Structures and Management Systems

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

Course Description

In this course, you will analyze and design databases to support computer-based health care information systems and develop and implement relational database management systems using SQL. Topics include data modeling techniques such as entity-relationship modeling, extended entity-relationship modeling, database constraints, database normalization techniques, and basic and advanced features of the database query language SQL.

Prerequisite(s)

HIMT 345 Programming and Software Development

Course Outcomes

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

- Apply concepts of modern database design such as an entity-relationship model, an extended entity-relationship model, and database normalization techniques.
- Apply fundamental features of Structured Query Language (SQL) for creating and querying databases, such as CREATE, INSERT, DELETE, DROP, and simple SELECT queries
- Apply advanced features of Structured Query Language (SQL) for querying databases, such as ORDER BY, GROUP BY, Relational Set Operators, nested SQL queries, and OUTER JOIN SQL queries
- Design and implement databases in health care information systems.

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
8 Graded Discussions	4
8 Lab Assignments	40
14 Lesson Quizzes	14
3 Healthcare Database Assignments	12
Final Exam (comprehensive)	30
Total	100%