

Syllabus for APC 360 Database Management I

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 covers design and implementation of relational database management systems to support computer-based information systems. Topics include: data modeling techniques such as entity-relationship modeling, extended entity-relationship modeling, database normalization techniques, and basic and advanced features of database query language SQL.

Prerequisite(s)

- APC 300 – Programming I
- APC 310 – Math for Computer Science

Course Outcomes

Upon completing this course, you will be able to do the following:

- Develop knowledge of basic and important concepts in modern database design such as entity-relationship model, extended entity-relationship model, and database normalization techniques
- Leverage fundamental features of Structured Query Language (SQL) for creating and querying databases, such as CREATE, INSERT, DELETE, DROP, and simple SELECT queries
- Leverage 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

Course Requirements/Components

- Practice Activities
- Labs
- Assignments
- Midterm Exam
- Final Exam

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%

Evaluation Methods	Percentage of final grade
Practice Activities	4%
Labs	36%
Assignments	8%
Midterm Exam	20%
Final Exam	32%