Course Prerequisite

INT250 and CSCI463 or co-requisite.

Course Description

This course introduces students to different data models currently used to structure the logical view of the database (relational, hierarchical, and network), implementation techniques for database systems, file organization, query processing, concurrency control, rollback and recovery, integrity and consistency, and view implementation.

Course Materials


Program Objectives

Put a table in your syllabus that maps the program objectives (MBA or BBA objectives) with the course. List every program objective. If the objective is not covered in the course, state: Not Covered. If the objective is covered, explain how (exams, homework, research papers, cases, oral presentations, Power Point lectures, etc.) This will help students understand why certain assignments are included in the course and will help us with AACSB assessment.

<table>
<thead>
<tr>
<th>Objective</th>
<th>How Objective will be Evaluated</th>
</tr>
</thead>
<tbody>
<tr>
<td>An ability to apply knowledge of mathematics, science, and engineering.</td>
<td>Lecture notes, homework, quizzes and exams.</td>
</tr>
<tr>
<td>An ability to identify, formulate, and solve engineering problems.</td>
<td>Lecture notes, homework, quizzes and exams.</td>
</tr>
<tr>
<td>A knowledge of contemporary issues.</td>
<td>Lecture notes, homework, quizzes and exams.</td>
</tr>
<tr>
<td>An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.</td>
<td>Lecture notes, homework, quizzes and exams.</td>
</tr>
</tbody>
</table>
## Course Objectives

At the conclusion of this course, the successful (passing) student will be able to:

1. Master knowledge to understand basic concepts of database design and management
2. Demonstrate understanding of effectiveness and faithfulness of data models.
3. Complete the design and development of the assigned projects in Database design and management.
4. Create databases and pose complex SQL queries of relational databases.
5. Be familiar with a broad range of data management issues including data integrity and security.

## Course Delivery and Structure

This is an on-campus course and student attendance to lectures is required. Material will be delivered through lectures, enhanced by student participation and group projects. Other evaluation methods will involve exams, quizzes and homework.

## Grading and Evaluation

- Attendance, 10%,
- Three tests, 20% each,
- Homework, 10%,
- Project, 20%.

Letter grade assignment is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>&lt; 60%</td>
</tr>
<tr>
<td>60% ≤ D &lt; 70%</td>
<td>70% ≤ C &lt; 80%</td>
</tr>
</tbody>
</table>

## Course Policies

- **Late Work**: All assignments must be submitted on the due time. Late assignments will not be accepted.
- **Make-Ups**: No matter what the excuse is, there will be given no make-up to any of the assignments of this course.
- **Contesting**: Grades can be contested during a two-week period from the time that they were announced. After such period is elapsed, grades may not be contested.