Introduction to Databases Using MS Access

CSE 1114

Course Description:
Database concepts and techniques for efficient/effective data handling, computational analysis and decision support.

Course Goals / Objectives:
Be familiar with concepts of relational databases.
Be familiar with solving problems using MS Access Query tools including selection queries, sorts, aggregation, calculations, inner/outer joins, and situations with datasets containing many-to-many relationships using multiple queries.
Be familiar with using MS Access to create data tables, reports, and forms.
Be competent using macros.
Be exposed to SQL.
Be exposed to tools that facilitate lifelong learning of technology.

Course Topics:

- Relational database management systems
- Table Design, including primary/foreign keys, and referential data integrity
- Table Relationships (inner and outer joins)
- Use the query tool to find/organize information
- Access Macros
- SQL
- Forms and Reports
### Grades Breakdown:

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework Assignments</td>
<td>15%</td>
</tr>
<tr>
<td>Lab Assignments</td>
<td>25%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Class Attendance and Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
</tbody>
</table>

### Designation:
Elective

### Instruction Modes:
In Person (75-100% campus; 0-24% online)

### Representative Textbooks and Other Course Materials:

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Textbooks and Other Course Materials Entered.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>