INF 202 Introduction to Data and Databases
(Spring 2012)

Instructor:  John Avitabile
avitabij@strose.edu
518-458-5317

TA:

Office Hours:  By arrangement

TA Office Hours:

Class Website:

Catalog Description
This course will examine basic principles of data and databases, with an emphasis on relational database modeling. Topics such as database design, creation, and maintenance, user interface, and SQL queries will be presented from an end-user perspective.

A More Detailed Description
This is a hands-on course on data and databases that also emphasizes an understanding of the theory underlying relational databases. The course deals with the analysis and design of databases as well as querying such databases to extract information needed by users.

By the end of the semester, you should be able to
• Analyze simple, typical real-world situations where databases are used and build models of relational databases
• Design relational databases for simple real-world situations to avoid anomalies
• Formulate simple queries in the structured query language (SQL)
• Use the software Microsoft Access in the modeling as well as design of relational databases for simple domains

Required Textbook:

Grading:
20% Homework/Labs
30% Midterm
30% Final Exam
20% Final Project
100% Total

Grading Scale:
95-100    A
90-95     A-
87-90     B+
82-87     B
80-82     B-
77-80     C+
72-77     C
70-72     C-
60-70     D
<60       E

Attendance:
Attendance is essential for keeping up with the class. Students who miss classes or show up late will lose points from their final average. There will be a daily attendance sheet that students will have to sign.

Late homework will be accepted only with a note from the undergraduate dean’s office.

Labs: The objective of the labs is to gain better understanding of the concepts explained in the class. Many classes during the semester will be Labs where assignments will be given. Lab assignments are due at MIDNIGHT of the scheduled date.

Homework: Homework will be assigned, collected, and graded. The objective of the homework is to practice the concepts discussed in the class. Each homework will be due at the beginning of the class.

Midterm and Final Exam: These will be paper-based exams and will test the concepts and their applications as covered in the class. They will consist of problems, short cases, and some multiple choice problems. The parts of the course covered for each exam will be announced in the class at least two weeks prior to the exam date. Review classes will be held the classes before midterm and final exam.

Final Project: The objective of this project is to provide you an opportunity to apply the concepts studied during the semester in a real-world application. Details of the project will be provided during the semester.
Academic Dishonesty, Reasonable accommodation in case of disabilities:
Any cases of plagiarism and academic dishonesty will be reported to the office of Judicial Affairs. Please read the University Undergraduate Bulletin for the policies. They will be followed rigidly. Please read and familiarize yourself with all the information on university policies at: http://www.albany.edu/undergraduate_bulletin/regulations.html

Please notify the Director of Disabled Student Services (Campus Center 137, Phone: 442-5490) where appropriate. Reasonable accommodation will be provided for those students.

Tentative Class Schedule

<table>
<thead>
<tr>
<th>Week Of</th>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 16</td>
<td>Course Introduction</td>
<td>Getting Started (Ch 1)</td>
<td></td>
</tr>
<tr>
<td>January 23</td>
<td>Access Workbench 1</td>
<td>Lab 1</td>
<td>Relational Model (Ch 2)</td>
</tr>
<tr>
<td>January 30</td>
<td>Relational Model (Ch 2)</td>
<td>Access Workbench 2</td>
<td>Lab 2</td>
</tr>
<tr>
<td>February 6</td>
<td>SQL (Ch 3)</td>
<td>SQL (Ch 3)</td>
<td>SQL (Ch 3)</td>
</tr>
<tr>
<td>February 13</td>
<td>Access Workbench 3</td>
<td>Access Workbench 3</td>
<td>Lab 3</td>
</tr>
<tr>
<td>February 20</td>
<td>Lab 3</td>
<td>Lab 3</td>
<td>SQL (Ch 3A)</td>
</tr>
<tr>
<td>February 27</td>
<td>Access Workbench 3A</td>
<td>Lab 3A</td>
<td>Data Modeling (Ch 4)</td>
</tr>
<tr>
<td>March 5</td>
<td>Midterm Review</td>
<td>Midterm</td>
<td>Open Lab</td>
</tr>
<tr>
<td>March 19</td>
<td>Data Modeling (Ch 4)</td>
<td>Data Modeling (Ch 4)</td>
<td>Access Workbench 4</td>
</tr>
<tr>
<td>March 26</td>
<td>Lab 4</td>
<td>Database Design (Ch 5)</td>
<td>Database Design (Ch 5)</td>
</tr>
<tr>
<td>April 2</td>
<td>Access Workbench 5</td>
<td>Lab 5</td>
<td>XXXXXXXXXXXXXXXX</td>
</tr>
<tr>
<td>April 9</td>
<td>XXXXXXXXXXXXXXXX</td>
<td>DB Admin (Ch 6)</td>
<td>DB Admin (Ch 6)</td>
</tr>
<tr>
<td>April 16</td>
<td>Access Workbench 6</td>
<td>Lab 6</td>
<td>Database Appl (Ch 7)</td>
</tr>
<tr>
<td>April 23</td>
<td>Database Appl (Ch 7)</td>
<td>Final Project Work</td>
<td>Final Project Work</td>
</tr>
<tr>
<td>April 30</td>
<td>Final Project Work</td>
<td>Final Project Present</td>
<td>Final Project Present</td>
</tr>
<tr>
<td>May 7</td>
<td>Final Review</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Final Exam: Thursday, May 17; 1-3pm