CSC 471 – Principles of Database Systems

Course Syllabus, Fall 2017

COURSE INFORMATION

For Whom Planned: Upper undergraduate students
Credits: 3
Prerequisite: CSC 330
Meeting Times: T, R 12:30pm - 1:45pm
Location: Moore Building 330

INSTRUCTOR INFORMATION

Instructor: Dr. Lixin Fu
Office: Petty 162
Office hours: T, R 10:50am - 12:00pm or by appointment
Telephone: (336) 402-9601
E-mail: lfu@uncg.edu
Home page: http://www.uncg.edu/~l_fu

COURSE DESCRIPTION AND LEARNING OUTCOMES

Contemporary database systems. Emphasis on query processing, design, and implementation of applications in relational (SQL) databases. Introduction to other database models such as XML, object-oriented, and deductive.

Upon successful completion of the course, students should be able to:

1. understand ER data model
2. learn relational model, SQL, relational algebra
3. learn to design databases
4. database applications
5. complete a real world, comprehensive database project

By developing a real world application step by step, the students not only enhance their understanding of the fundamental concepts and theories of databases but also obtain some "hands-on" experience and marketable skills that today's high tech IT industry demands.

TEXTBOOK

Required textbook:


EVALUATION METHODS AND GUIDELINES FOR ASSIGNMENTS
1. **Exams**  
   There will be two closed notes, closed books exams.

2. **Project**  
   The project consists of five inter-related assignments that will be required and graded. The first two are written parts; the rest involve database programming designed to give you some "hands-on" experience with a full fledged database management system. At the end of the semester, there is a demo session for each student. Click [here](https://example.com) to see more details of the project.

3. **Grading Scheme**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam I</td>
<td>20%</td>
</tr>
<tr>
<td>Exam II</td>
<td>25%</td>
</tr>
<tr>
<td>Attendance</td>
<td>10%</td>
</tr>
<tr>
<td>Homework</td>
<td>15%</td>
</tr>
<tr>
<td>Project</td>
<td>30% (5%, 5%, 5%, 5%, 10%)</td>
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**ATTENDANCE POLICY**

Class attendance is required. Each absence of sign-out leads to a loss of 2 points until all 10 points are depleted. A sick leave needs a doctor's note.

**ACADEMIC HONOR CODE**

*Academic Honor Policy will be strictly enforced.*

Please refer to [Academic Integrity Policy](https://example.com) or UNCG Undergraduate Bulletin for more details.

If you need any help for this course, feel free to contact me by office hour, by appointment or by email. I am more than happy to help you.