CS 3211
Database System Concepts
Fall Semester 2012

Instructor
Dr. Donald B. Crouch
Email: dcrouch

Office
333 Heller Hall

Office Hours
TTh 10:45 - 11:30 [Other times by appointment]

Graduate Teaching Assistant
Anand Jha
Email: jhaxx030

Course Description
(4 cr. prereq CS 2511, FMIS 3201 or 2201 or SBE 1101, or #)
Design and use of database management systems. Emphasis on the relational data model, entity-relationship model, SQL, integrity constraints, relational database design, indexing, query processing and optimization. Laboratory work is typically based on Oracle.

Required Textbook

Course Goals
The purpose of this course is to introduce you to the fundamental concepts underlying database system design, including not only the design of applications using databases but also the implementation techniques used in database systems. The amount of material that needs to be covered will make this course a rather intensive one for a one semester course; be prepared for the course load. We will attempt to cover Chapters 1-16 either in lecture or lab sessions or via reading assignments, and Chapters 1-16 and portions of Chapters 20-23 as time permits. The course will be supplemented by assignments involving coding and executing SQL queries, creating database applications, and building graphical interfaces to databases.

Tools
We will generally use the Oracle relational database management system running under Unix, and periodically perhaps, Microsoft SQL Management Studio. We have installed software and various databases on laptops that will be available to you in the lab. You may install the software on your own computer if you so desire. Instructions will be provided for doing this.

Class Schedule
Lectures on Tuesday/Thursday from 9:30-10:45. Labs will be held on Wednesday afternoons, 4:00-6:00, in HH 306. Lab attendance is mandatory. No classes or lab will be held during the first two or three weeks of class. Each Wednesday during the first part of the lab, the teaching assistant will introduce you to the use of various features of the lab’s software tools and will discuss that week’s lab assignment. You will than have 1 3/4 hours
to complete or at least get a good start on the lab assignment that evening. Although most labs can be done during the formal lab period, the lab will also be open and staffed by the GTA from 6:00-7:00 on Wednesday and 4:00-6:00 on Monday.

Final Exam Date

10:00-11:55, December 18 (Tuesday)

Grading Basis

Assignments
Laboratory/Homework 37%
Midterms (2) & Final 60%
Attendance 3%

Grading Scale

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<tr>
<th>Score</th>
<th>Grade</th>
<th>Description</th>
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<tbody>
<tr>
<td>93-100</td>
<td>A</td>
<td>77-79 C+</td>
</tr>
<tr>
<td>90-92</td>
<td>A-</td>
<td>73-76 C</td>
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<tr>
<td>87-89</td>
<td>B+</td>
<td>70-72 C-</td>
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<td>83-86</td>
<td>B</td>
<td>67-69 D+</td>
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<tr>
<td>80-83</td>
<td>B-</td>
<td>60-69 D</td>
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<td>&lt;60</td>
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Student Responsibilities

You are responsible for what is covered in class and lab, including
- lecture material
- obtaining assignments and handouts
- turning in assignments
- tests.

If you are unable to attend a class meeting, it is your responsibility to obtain class notes, assignments, and copies of handouts from other students in the class. If, due to extremely unusual circumstances, you are unable to take a test at the scheduled time, the test may be rescheduled. It is your responsibility to gain permission to miss a scheduled test from the instructor at least 24 hours in advance of the time the test is scheduled to be given in class; otherwise, a grade of 0 will be assigned for the test score. All lab assignments are due during the lab period on the due date and must be submitted in the lab – not to the TA or instructor outside the class period. No credit will be given for late work.

Disabled Students

It is the policy and practice of the University of Minnesota Duluth to create inclusive learning environments for all students, including students with disabilities. If there are aspects of this course that result in barriers to your inclusion or your ability to meet course requirements – such as time limited exams, inaccessible web content, or the use of non-captioned videos – please notify the instructor as soon as possible. You are also encouraged to contact the Office of Disability Resources to discuss and arrange reasonable accommodations. Please call 218-726-6130 or visit the DR website at www.d.umn.edu/access for more information.

Student Academic Integrity Policy

Academic dishonesty tarnishes UMD's reputation and discredits the accomplishments of students. UMD is committed to providing students every possible opportunity to grow in mind and spirit. This pledge can only be redeemed in an environment of trust, honesty, and fairness. As a result, academic dishonesty is regarded as a serious offense by all members of the academic community. In keeping with this ideal, this course will adhere to UMD's Student Academic Integrity Policy, which can be found at www.d.umn.edu/conduct/integrity. This policy sanctions students engaging in academic dishonesty with penalties up to and including expulsion from the university for repeat offenders.
Student Conduct Code

The instructor will enforce and students are expected to follow the University's Student Conduct Code (http://www.d.umn.edu/regents/policies/academic/Student_Conduct_Code.pdf). Appropriate classroom conduct promotes an environment of academic achievement and integrity. Disruptive classroom behavior that substantially or repeatedly interrupts either the instructor's ability to teach, or student learning, is prohibited. Disruptive behavior includes inappropriate use of technology in the classroom. Examples include ringing cell phones, text-messaging, watching videos, playing computer games, doing email, or surfing the Internet on your computer instead of note-taking or other instructor-sanctioned activities.