Syllabus Spring 2016

Instructor: Yolanda Reimer
Office location: SS 416
Office hours: MW 3-4pm; F 1-2pm; or by appt
Email: reimer@cs.umt.edu

Texts:

You may also find the following Web resources useful:
• www.mysql.com

Course Description
Databases are an essential and ubiquitous part of everyday life, and many of our day-to-day tasks involve the use of an underlying database in some form or another. As computer scientists, it is critical that we understand fundamental concepts of databases and database management systems (DBMS), including how they are designed, implemented, queried and maintained. In this class, we will learn about data modeling, relational models, normal forms, file organization, index structures, SQL, and PHP. Through the course of many weeks, students will work on a project that involves the design and implementation of a web-accessible database using PHP and MySQL.

Student Learning Outcomes
Upon successful completion of this class, students should be proficient with the following:
• Database system terminology, concepts and architecture
• Database design, including requirements specification and ER modeling
• Relational data model concepts, schemas, and constraints
• Functional dependencies and the process of normalization
• Programming in SQL, PHP, and MySQL
• File organizations, including single and multi-level indexing structures

Prerequisites
The prerequisite for this class is CSCI 232 (Data Structures) or consent of the instructor. Please note that if you take this class without the necessary prerequisite, you do so at your own risk. The instructor is not responsible for getting you up-to-speed on knowledge or skills covered in the prerequisite class(es).
**Course Evaluation:** Your grade for the course will be evaluated based on:

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Chapter exercises</td>
<td>25%</td>
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<tr>
<td>Quizzes (2)</td>
<td>20%</td>
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<tr>
<td>Final Exam</td>
<td>15%</td>
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<tr>
<td>Semester long project (4 parts)</td>
<td>40%</td>
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Please note that, as indicated in the course catalog, this course may be taken for a traditional letter grade only.

**Missed Quiz/Exam Policy**
I am unable to offer alternate dates and times for class quizzes, and for the final exam. If you miss a test without prior approval from the instructor or required documentation, you will receive a score of 0. Please mark your calendar now and make sure that you will be able to attend these classes.

- Quiz 1: In class on Friday, February 26
- Quiz 2: In class on Wednesday, March 30
- Final Exam: Monday, May 9 from 3:20-5:20pm

**Late Assignments Policy**
Late assignments are subject to a 20% per day (24 hour period) penalty including weekends. Late assignments will **NOT** be accepted once graded papers are returned or solutions are handed out.

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**Additional class policies and information:**

- I expect you to come to class. While I do not officially take attendance, I do notice who is there consistently and who is not. Attendance and grades are correlated (i.e., those students who regularly come to class tend to do better than those who do not).

- If you miss a class, you and you alone are responsible for the material covered. This includes handouts, schedule changes, and lecture notes. Do not expect me to reiterate a class period that you missed, and please, don’t ask me if you’ve “missed anything important” – everything we do in class is important, so the answer is Yes!

- Key dates for various spring term activities/deadlines, including adding and dropping a course, can be found in the Academic Policies section of the University catalog ([http://www.umt.edu/catalog/academics/academic-policy-procedure2.php](http://www.umt.edu/catalog/academics/academic-policy-procedure2.php)).

- Also in the University catalog, review the policy on **incompletes**. In particular, note that incompletes can only be assigned when the student has “been in attendance and doing passing work up to three weeks before the end of the semester.” Incompletes will not be issued simply to prevent a failing grade.

- All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at [http://www.umt.edu/vpsa/policies/student_conduct.php](http://www.umt.edu/vpsa/policies/student_conduct.php).
Students with disabilities will receive reasonable modifications in this course. Your responsibilities are to request them from me with sufficient advance notice, and to be prepared to provide verification of disability and its impact from Disability Services for Students. Please speak with me after class or during my office hours to discuss the details. For more information, visit the Disability Services for Students website at http://www.umt.edu/disability.

Questions? Email reimer@cs.umt.edu