When: Spring 2015 (Term 2154 or 15-2)

What & Where:

Lectures: Monday & Wednesday, 11:00am – 12:15 pm @ 5129 Sennott Square
Recitations: Friday 11:00 – 11:50am @ 6110 Sennott Square (CRN 20199 & 20200)
Friday 2:00 – 2:50pm @ 6110 Sennott Square (CRN 20201 & 20202)

Instructor: Prof. Panos K. Chrysanthis
Email: panos@cs.pitt.edu
Web: http://www.cs.pitt.edu/~panos
Office: 6421 Sennott Square
Phone: 412-624-8924

Office hours: Monday, 5:00 – 6:30 pm

Recitations Instructor & TA: Nick Katsipoulakis
Email: cs1555-staff@cs.pitt.edu
Web: http://people.cs.pitt.edu/~katsip
Office: 6414 Sennott Square
Phone: 412-624-8443

Office hours: Tuesday, 10:00 am – 12:00 pm
Thursday, 1:00 pm–3:00 pm
Friday, 10:00 am – 11:00 am

Course Description: There are two principle objectives for this course. First, to introduce the fundamental concepts necessary for the design and use of a database. Second, to provide practical experience in applying these concepts using commercial database management systems.

Prerequisites: A grade of C or better in CS 0441 and CS 0445 is required. Working knowledge of Java and familiarity with Unix are assumed.

Class Web Page: http://db.cs.pitt.edu/courses/cs1555/current.term
All handouts and class notes will be published on the class web page. You are expected to check this page frequently (at least twice a week).


Reference: Oracle10g Programming: A Primer, R. Sunderraman, Addison-Wesley, 2007
Learning SQL, Alan Beaulieu, O’Reilly 2005 (Available online from campus computers through Safari Bookshelf – link at web site).

Note on Email Communication: In order to receive the highest priority, you should send all email regarding class matters to cs1555-staff@cs.pitt.edu. Your email will go to the instructor and the graduate TA. Note this email works only within Pitt. If you have a confidential matter, then please email the instructor directly, but make sure to include the keyword cs1555 or cs2055 in the subject line of your email messages. We will make every effort to respond to all email requests within one business day at the latest. No response should be expected during the weekend and no email clarifications 4 hours before a deadline. Due to spam filtering, you should always try to use your pitt email address when sending email and include your full name.
Course Grading:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Homework Assignments</td>
<td>20%</td>
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<tr>
<td>Term Project</td>
<td>15%</td>
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<tr>
<td>Midterm Exam</td>
<td>30%</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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<tr>
<td>Recitation &amp; Class Participation</td>
<td>5%</td>
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Grading Policy: The grade scaling will be computed based on the performance of the undergraduate students only. Graduate students will then be graded on this undergraduate scale.

Attendance and participation in lecture and recitation may be used to decide borderline grades.

Unless explicitly noted otherwise, the work in this course is to be done independently. Discussions with other students on the assignments should be limited to understanding the statement of the problems. Cheating in any way, including giving your work to someone else will result in an F for the course and a report to the appropriate University authority.

Marks can be appealed up to two weeks after they have been posted, after that no appeals will be considered.

Submission & Late Policy: All written assignments must be submitted electronically and there is no late submission. An assignment which is late will be accepted only under special circumstances with the instructor’s permission prior to its deadline. In such a case, the instructor will determine any penalty in a fair manner.

Make-up Policy: Students are expected to take all three class exams: midterm exam, final exam and project demo exams. Make-up exams will only be given in the event of a medical situation or an emergency, and only if this is documented and the instructor is notified immediately if in advance is not possible. Missing an exam will result in a zero for the exam/project.

Students with Disabilities: If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and Disability Resources and Services, 140 William Pitt Union, 412-648-7890 or 412-383-7355 (TTY) as early as possible in the term.

Religious Observance: In order to accommodate the observance of religious holidays, students should inform the instructor of any such days within the first two weeks of the term by email (Sept. 6).

Audio/Video Recording - Use of Cell Phones: To ensure the free & open discussion of ideas, students may not record classroom lectures, discussion and/or activities without the advance written permission of the instructor, and any such recording properly approved in advance can be used solely for the student’s own private use. Also, any use of Cell Phones during lectures is disruptive and is not permitted.

Copyrighted Material: All material provided through this web site is subject to copyright. This applies to class/recitation notes, slides, assignments, solutions, project descriptions, etc.

You are allowed (and expected!) to use all the provided material for personal use. However, you are strictly prohibited from sharing the material with others in general and from posting the material on the Web or other file sharing venues in particular.

Outline: A detailed reading guide will be published on the web page, along with the class notes.

1. Relational/Object-Relational Data Model, Relational Databases – SQL, QBE
2. Database Design – Relational Normal Forms & Entity-Relationship Data Model
3. Storage and File Organizations, Access Methods
4. Transactions, Concurrency, Recovery & New Trends/NoSQL

[Last updated on Fri Jan 9 21:48:33 EST 2015 ]