Syllabus – Fall 2007
CS 334W: Database Management Systems

	Instructor
Name:	Dr. Svetlana Kouznetsova
Office:	AB1 216H
Campus Phone:	294-1591
Email:	svk001@shsu.edu
Office Hours:	**MW** 1:00 – 3:30pm; **TTh** 9:30 – 12:00pm; **or by an appointment**

Textbook: *A First Course in Database Systems*, *(2nd Edition)*,
by Jeffrey D. Ullman and Jennifer Widom, Prentice Hall, 2002

Outline: This course is an introduction to the fundamental principles underlying modern database systems. The course deals almost entirely with the Relational Database Model and systems based on that model. Among the topics to be covered: **Relational Database Operators**, **Database Design** using E/R Diagrams, **Normalization**, **SQL**, **Java Database Connectivity (JDBC)**, **Transaction Management** and **Concurrency Control**, **Views**, **Triggers**, **Database Integrity**, and **Security**. If time permits, we will also briefly cover Object-Oriented and Object-Relational DBMS and XML.

Prerequisite: CS 147

Project: This course includes a fairly large 3-phase hands-on project involving the design and implementation of a database application and programming a simple user interface for it. Students will work on the project in groups of 3.
Each group will have to submit a detailed **written report** for each phase of the project, and demo the finished project at the end of the semester.

Presentation: In addition to working on the project, each group will have to give an **in-class presentation** on a specific topic (to be assigned). Each group will have to find at least <u>three articles</u> on their given topic, read and understand the material, and present it in class. The presentation should be approximately 20 minutes in length, professional in content and in appearance (using presentation software), and should include illustrative examples. Each member of the group must take a turn as presenter.
Copies of the articles selected must be submitted to the instructor *at least one week prior to the presentation date* for approval. In addition, **each** member of the group must submit an **individual written report** summarizing the contents of the presentation.

Written Reports: Each student in class must submit **two written reports** (of at least **5 pages** each) during the semester: one report detailing one phase of the project (see above), and one report summarizing the contents of the presentation. The reports will be graded for grammar, spelling, and style, as well as for technical content, completeness, and accuracy.

Exams: There will be three in-class exams during the semester, and a comprehensive final exam at the end of the semester.

> **Exam 1** date is **September 27 (tentative)**
> **Exam 2** date is **October 30 (tentative)**
> **Exam 3** date is **November 29 (tentative)**
> **Final Exam** date is **December 13 @ 2pm (firm)**

While the in-class exams are not designed to be comprehensive, you will find that material in later chapters requires familiarity with topics from earlier chapters. **Makeup exams will be given only in the extreme circumstances. You have to arrange for a makeup exam prior to the scheduled exam, and provide documentation of an excused absence as soon as possible.**

Homework: Several assignments will be given throughout the semester. I expect to see your <u>own individual work</u> on these, cheating of any kind will not be tolerated. Assignments will be collected in class on the announced due date. **Late submissions will incur reduction of the grade by 10% per calendar day!**

Attendance: In accordance with **University Policy**, attendance will be checked at the beginning of each class (see http://www.shsu.edu/~vaf_www/aps/800401.html.) However, no points will be awarded or subtracted based on your attendance. You are responsible for all material covered in every class, regardless of whether you attended or not. You are also responsible for obtaining any missed assignments.

Classroom Rules of Conduct:
While in class, it is important that your attention is focused on the subject matter at hand; you may not read any unrelated material or engage in conversations not relevant to the content of this course. As a courtesy to others in the class, please make an effort to **silence cell phones and pagers** while class is in session; **any use of cell phones or other electronic devices during an exam will result in dismissal from the exam without the possibility to make up for it**. Inappropriate behavior in the classroom may result in a directive to leave the classroom, loss of credit for that day's course work, or being reported to the Dean of Students for disciplinary action in accordance with university policy.

Weights:
10% - Exam 1
10% - Exam 2
10% - Exam 3
15% - Final
10% - Homework (Individual work)
35% - Project (Group work)
10% - Presentation of a topic

Grading Scale: Based on a point system, with a total of 1000 points possible:

> 900 points and up   – A
> 800 – 899 points   – B
> 700 – 799 points   – C
> 600 – 699 points   – D
> Below 600 points   – F

FYI: Last date to drop a course without an "F" is **October 10, 2007**.
Last day for Resignations is **December 6, 2007**.
Fall semester grades will be available at http://www.shsu.edu/saminfo
(SamInfo) after **December 17, 2007**

Academic Dishonesty

"All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action."
(For a complete listing of the university policy, see
http://www.shsu.edu/administrative/faculty/sectionb.html#dishonesty)

The SHSU policy on academic honesty is very clear, and needs no further explanation. Nevertheless, it's worth pointing out that *either* (a) submitting anything other than your own original work, or (b) allowing your own work to be copied by another student will be considered academic misconduct. **Any student found to have been involved in academic dishonesty, as defined by SHSU Academic Policy Statement 810213, will receive a course grade of F**, and possible referral to the Dean of Student Life for further disciplinary action.

Student Absences on Religious Holy Days Policy

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made in the first fifteen days of the semester or the first seven days of a summer session in which the absence will occur. The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

Students with Disabilities Policy

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center and to talk to me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: no accommodation can be made until you register with the Counseling Center. For a complete listing of the university policy, see http://www.shsu.edu/~vaf_www/aps/811006.html