Course: Database Systems I

Time & Place: Tuesday and Thursday 4:00pm-5:45pm, E2 192.

Discussion/Lab Sections:
- See 01A Wednesday and Friday 10:00am - 12:00noon, MingOng Cmp Lb 108.
- See 01B Monday and Wednesday 5:00pm - 7:00pm, MingOng Cmp Lb 108.

Instructor: Dean Bailey; office: E2 249B; e-mail: dbailey@cse.ucsc.edu

Teaching Assistant: Vesselin Diev, email: vdiev@soe.ucsc.edu

Office Hours:
- Bailey: Monday and Wednesday 5:00-6:15pm, Tuesday and Thursday 5:45pm-7:00pm E2 249B.
- Diev: tbd


Goal: To cover most of the material contained in chapters 1-5, 16, and 19, plus selected topics from other chapters.

Syllabus: The following is a tentative syllabus for the course:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Number of lectures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>E-R Model</td>
<td>1</td>
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<tr>
<td>Relational Model</td>
<td>1</td>
</tr>
<tr>
<td>Relational Algebra/Calculus</td>
<td>1-3</td>
</tr>
<tr>
<td>SQL</td>
<td>1-2</td>
</tr>
<tr>
<td>Transaction Management</td>
<td>1</td>
</tr>
<tr>
<td>Functional Dependencies</td>
<td>1-2</td>
</tr>
<tr>
<td>Data Storage and Buffering</td>
<td>1</td>
</tr>
<tr>
<td>Indexing</td>
<td>1-2</td>
</tr>
<tr>
<td>Query Evaluation</td>
<td>1</td>
</tr>
<tr>
<td>Deductive Databases</td>
<td>1</td>
</tr>
<tr>
<td>XML</td>
<td>1-2</td>
</tr>
</tbody>
</table>

Evaluation: The course work will be weighted as follows:

- Final Examination: 30%
- Mid Term: 30%
- Lab Assignments: 20%
- Four in-class Quizzes (20 minutes each): 10%
- Homework Assignments: 10%

A passing grade in all of these categories is required to pass the course.

Examination and Quiz Schedule:
- Quiz 1: Thursday, April 7, 2005, 4:00pm-4:30pm.
- Quiz 2: Thursday, April 21, 2005, 4:00pm-4:30pm.
- Mid Term: Thursday, April 28, 2005, 4:00pm-5:10pm.
- Quiz 3: Thursday, May 12, 2005, 4:00pm-4:30pm.
- Quiz 4: Thursday, May 26, 2005, 4:00pm-4:30pm.
- Final: Tuesday, June 7, 2005, 7:30pm-10:30pm.
The examination and quiz schedule is fixed. In particular, requests for changes in the schedule will not be accommodated; if you have conflicts with this schedule, please do not enroll in the class. Also, no time extension will be given for late arrivals on quiz day or examination day.

- **Academic Integrity**: No form of academic dishonesty will be tolerated. Incidents of academic dishonesty will be reported according to UCSC’s policy on academic integrity, the full text of which can be found at [http://oasas.ucsc.edu/avcue/integrity](http://oasas.ucsc.edu/avcue/integrity). Specifically, if you are caught submitting work as your own in this class, that is not solely your own, or assisting others in doing so, a formal written report will be sent to your Department, the School of Engineering, and to your Provost and academic preceptor. Furthermore you will get a failing grade for the course and the incident will be noted in your evaluation.

- **Miscellanea**
  
  - All written homework assignments are to be handed in at the beginning of Class on Thursdays.
  
  - All programming homework assignments are to be submitted before midnight Sundays.
  
  - The class has a newsgroup, which is accessible from the class webpages. We will occasionally post announcements and reminders there, but we will not answer questions on the newsgroup. The time and place to ask such questions and have them answered are the discussion sections and the office hours.