CMPE 16h
Honors Applied Discrete Mathematics
Spring 2004

Description:
Honors version of course CMPE 16: an introduction to applications of discrete mathematical systems. Topics include sets, functions, relations, graphs, trees, Boolean algebra, propositional logic, predicate calculus, mathematical induction, permutations, combinations, summation, and recurrences. Examples are drawn from computer science and computer engineering.

The basic difference between this course and the regular offering of CMPE 16 is that we will cover more topics in the same time, and therefore we will move significantly faster. We will emphasize challenging and interesting problems. In addition, students will be expected to cover some topics on their own through reading.

Prerequisite: Consent of Instructor
Time and Place: TTh 10:00 – 11:45  Crown 201

Instructor: Patrick Tantalo (http://www.soe.ucsc.edu/~ptantalo/)
Email: ptantalo@soe.ucsc.edu
Office: Baskin Engineering 181
Office Hours: TTh 1:00 - 3:00, W 12:00 – 2:00, and by appointment
Phone: 831-459-3898


Class Webpage: http://www.soe.ucsc.edu/classes/cmpe016h/Spring04/
Class News Group: ucsd.class.cmpe016

Coursework and Evaluation:
Homework will consist of written assignments taken from the exercises at the end of each section. Written homework will be graded only as to its completeness, not correctness. Its purpose is to prepare students for quizzes and the final exam. The first of five Quizzes will be held on Friday January 16, and every two weeks thereafter. A complete schedule of quizzes and solutions will be found on the webpage. The Final Exam will be held on Tuesday June 8, 7:30–10:30pm. Please make arrangements now to be available at that time.

Coursework will be weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>5%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>50%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>45%</td>
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The grading scale for the class will be approximately: A+:97%-100%, A:93%-96%, A-:90%-92%, B+:87%-89%, B:83%-86%, B-:80%-82%, C+:76%-79%, C:70%-75%, D+:60%-69%, F:0%-59%. Letter grade boundaries may be lowered at my discretion in order to eliminate some borderline cases.
Academic Honesty:
In recent years, there has been an increased number of cheating incidents in many UC campuses, and unfortunately, UCSC is no exception. The Baskin School of Engineering has a zero tolerance policy for any incident of academic dishonesty. If cheating occurs, consequences within the context of the course may range from getting zero on a particular assignment, to failing the course. In addition, every case of academic dishonesty is referred to the students’ college Provost, who sets in motion an official disciplinary process. Cheating in any part of the course may lead to failing the course and suspension or dismissal from the university.

What is cheating? In short, it is presenting someone else’s work as your own. Examples would include copying another student's written homework assignment or exam, or allowing your own work to be copied. Although you may discuss homework problems with fellow students, your collaboration must be at the level of ideas only. Legitimate collaboration ends when you "lend", "borrow", or "trade" written solutions to problems, or in any way share in the act of writing your answers. If you do collaborate (legitimately) or receive help from anyone, you must credit them by placing their name(s) at the top of your paper.

Go to http://www.ucsc.edu/academics/academic_integrity/ to see the full text of the University’s policy on Academic Integrity.