CMPS 130  
Computational Models  
Spring 2016

Description:  
Various representations for regular languages, context-free grammars, normal forms, parsing, pushdown automata, pumping lemmas, Turing machines, and the Church-Turing thesis.  
Prerequisite:  CMPS 101

Time and Place:  TTh 2:00-3:45pm  Thimann Lecture 003  
Class Webpage:  http://ic.ucsc.edu/~ptantalo/cmps130/Spring16/

Instructor:  Patrick Tantalo  http://users.soe.ucsc.edu/~ptantalo/  
Office:  E2  257  
Office Hours:  MW  3:30-6:00, or by appointment  
Email:  ptantalo@soe.ucsc.edu  
Phone:  831-459-3898

Teaching Assistants:  
Kuan-Sung Huang (kuhuang@ucsc.edu)  
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LSS Tutor:  
Emily Hockel (echockel@ucsc.edu)

The text can be found at the Bay Tree Bookstore, or see www.coursesmart.com for a digital edition.

Coursework and Evaluation:  
- **Homework:** will consist of selected exercises from the text, due at roughly one week intervals.  
- **Midterm Exam 1:** Thursday April 21  
- **Midterm Exam 2:** Thursday May 19  
- **Final Exam:** Wednesday June 8, 12:00-3:00pm

Coursework will be weighted as follows:  
<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Homework</td>
<td>10%</td>
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<tr>
<td>Midterm Exam 1</td>
<td>20%</td>
</tr>
<tr>
<td>Midterm Exam 2</td>
<td>30%</td>
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<tr>
<td>Final Exam</td>
<td>40%</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%   

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<thead>
<tr>
<th>Grade</th>
<th>Range</th>
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<tbody>
<tr>
<td>C+</td>
<td>76%-79%</td>
</tr>
<tr>
<td>C</td>
<td>70%-75%</td>
</tr>
<tr>
<td>C-</td>
<td>67%-69%</td>
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<tr>
<td>D+</td>
<td>64%-66%</td>
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<tr>
<td>D</td>
<td>61%-63%</td>
</tr>
<tr>
<td>D-</td>
<td>58%-60%</td>
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<tr>
<td>F</td>
<td>0%-57%</td>
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</tbody>
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Letter grade boundaries may be lowered at my discretion in order to eliminate some borderline cases.

**Accommodations for Students with Disabilities**

If you qualify for classroom accommodations because of a disability, please get an Accommodation Authorization from the Disability Resource Center (DRC) and submit it to me in person outside of class (i.e. during office hours) within the first two weeks of the quarter. Contact DRC at 459-2089 (voice), 459-4806 (TTY), or [http://drc.ucsc.edu](http://drc.ucsc.edu) for more information.

**Academic Honesty:**

The Baskin School of Engineering has a zero tolerance policy for any incident of academic dishonesty. If cheating occurs, consequences 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, suspension or dismissal from the Baskin School of Engineering, or from UCSC.

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 allowing your own work to be copied. You may discuss homework problems with fellow students, but 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. Please go to [https://www.ue.ucsc.edu/academic_misconduct](https://www.ue.ucsc.edu/academic_misconduct) to see the full text of the University's policy on Academic Misconduct.