Course: Computational Models

Time & Place: Tuesday and Thursday 4:00-5:45 pm, Social Sciences 1 #110

Instructor: Phokion G. Kolaitis; office: E2-345A; phone: (831) 459-4768, e-mail: kolaitis@cs.ucsc.edu, webpage: http://www.soe.ucsc.edu/~kolaitis/

Teaching Assistant: Kenneth Knowles, email: kknowles@cs.ucsc.edu

Office Hours:
- Kolaitis: Tuesday 11:15am - 12:30pm, Thursday 2:00-3:00pm, E2 345A
- Knowles: To be announced

Prerequisites: CIS 101


Goal: To cover selected topics from Chapters 1 through 9.

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Number of lectures</th>
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<tbody>
<tr>
<td>Review of Discrete Mathematics and Induction</td>
<td>1</td>
</tr>
<tr>
<td>Finite Automata and Regular Languages</td>
<td>5-6</td>
</tr>
<tr>
<td>Pushdown Automata and Context-Free Grammars</td>
<td>4-5</td>
</tr>
<tr>
<td>Turing Machines and Undecidability</td>
<td>6-7</td>
</tr>
<tr>
<td>Midterm Examination</td>
<td>1</td>
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</tbody>
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Evaluation: The course work will be weighted as follows:
- Final Examination 40%
- One Midterm Examination 30%
- Two in-class Quizzes (30 minutes each) 15%
- Homework 15%

Examination and Quiz Schedule:
1. Final Examination, Wednesday, June 10, 2009, 8:00-11:00am
2. Midterm Examination, Thursday, May 7, 2009, 4:00-5:45pm
3. Quizzes:
   - Quiz 1: Thursday, April 16, 2009, 4:00-4:30pm
   - Quiz 2: Thursday, May 28, 2009, 4:00-4:30pm

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://www.ucsc.edu/academics/academic_integrity/undergraduate_students/
• Miscellanea

– We will distribute solutions to the problems in the quizzes and in the midterm examination, after the grading has been completed.

– We will *not* distribute or post “sample” examination problems or “sample” quiz problems.