

- **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
- **Textbook:** *Introduction to Automata Theory, Languages, and Computation* by J.E. Hopcroft, R. Motwani, J.D. Ullman, 3rd Edition, Addison Wesley 2007.
- **Goal:** To cover *selected* topics from Chapters 1 through 9.
- **Timetable:** The following is a tentative syllabus for the course:

| Topic                                        | Number of lectures |
|----------------------------------------------|--------------------|
| Review of Discrete Mathematics and Induction | 1                  |
| Finite Automata and Regular Languages        | 5-6                |
| Pushdown Automata and Context-Free Grammars  | 4-5                |
| Turing Machines and Undecidability           | 6-7                |
| Midterm Examination                          | 1                  |

- **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/](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.