Introduction to Computer Science
Fall 2011

This course is an overview of the theory, foundations, and practice of Computer Science with an emphasis on what computers can and cannot do, now and in the future. Topics include algorithms and data, correctness and efficiency of algorithms, hardware, programming languages, limitations of computation, applications, and social issues. No programming skills are required as a prerequisite. Major concepts and open problems in Computer Science are presented without reliance on sophisticated mathematical tools.

Time and Place:  TTh 2:00-3:45 pm  Humanities Lecture 206
Class Webpage:  http://ic.ucsc.edu/~ptantalo/cmps010/Fall11/

Instructor:  Patrick Tantalo  (http://www.soe.ucsc.edu/~ptantalo/)
Email:  ptantalo@soe.ucsc.edu
Office:  E2 257
Office Hours:  TTh 10:00 am – 12:00 pm,  W 1:00 pm – 3:00 pm, or by appointment
Phone:  831-459-3898

Teaching Assistants:
Mark Deckert <mdeckert@ucsc.edu>
Michael Sevilla <msevilla@ucsc.edu>

Secondary Labs: The purpose of the secondary lab sections is for the TAs to provide help with homework, quiz preparation, and lab assignments, as well as to provide facilities for you to work on the Lab Assignments. Attendance at the secondary labs is entirely optional. The lab times posted in the schedule of classes will be subject to some modification. An official schedule of lab sections will be posted on the class webpage. Please refer to that posting when you are looking for a lab to attend, not to the schedule of classes website.

Texts:
•  *An Invitation to Computer Science* (I2CS), by Schneider & Gersting, Course Technology, 5th ed. Available at the Bay Tree Bookstore. We will cover roughly chapters 1-4, 8, parts of 10, 12, and 15.

Homework: Will be assigned from I2CS for the purpose of quiz preparation. These assignments will not be collected or graded.

Lab Assignments: There will be between 5 and 7 lab assignments based on Light Bot and Processing (to be described later.) These assignments will be due at various times throughout the quarter and will be submitted via ecommons. Assignments will not be accepted via email for any reason.

Quizzes: Will be given in class starting Thursday October 6 and every two weeks thereafter. Quizzes will be held during the last 20 minutes of the class period. A complete listing of all quiz dates, and solutions will be found on the class website.

Final Exam: Will be held on Thursday, December 8 from 8:00 am to 11:00 am.

Evaluation:  Coursework will be weighted as follows:

- Homework  0%
- Lab Assignments  30%
- Quizzes  30%
- Final Exam  40%
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.

**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 for more information on the requirements and/or process.