CMPS 10
Introduction to Computer Science
Winter 2004

This course is an introduction to the fundamental concepts, issues, and methods of computer science. Our unifying theme is the design, theory, implementation, and applications of algorithms. Topics include: correctness and efficiency of algorithms, hardware implementations, machine and assembly languages, higher level programming languages, and the theoretical limits of computation. While there are no prerequisites, this is a computer science course, and not a computer literacy course. This means we will cover technical material with a significant mathematical content.

Instructors: Patrick Tantalo
Time and Place: TTh 2:00 – 3:45 Kresge 321
Class Webpage: http://www.soe.ucsc.edu/classes/cmps010/Winter04/
Class News Group: ucscl classe cmp s010

Patrick Tantalo
ptantalo@soe.ucsc.edu
http://www.cse.ucsc.edu/~ptantalo/
Office: Baskin Engineering 181
Office Hours: M 3:00-5:00 & TTh 11:00-1:00
Phone: 831-459-3898

Teaching Assistant:
Deepavali Bhagwat (dbhagwat@soe.ucsc.edu)

Secondary Lab Sessions: In addition to the lectures, there are a number of lab sessions. The purpose of these secondary labs is for the TA or tutor 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. If you don't feel you need help, and can access the campus computer network from home, you can do the lab assignments from there, or from any other public computer lab on campus. The lab times posted in the schedule of classes will be subject to change. A current schedule of lab times will be posted on the class webpage shortly.


Evaluation: The work in this course will be weighted as follows:

- Written Homework 5%
- Lab Assignments 30%
- Quizzes 30%
- Final Exam 35%

Written Homework will be assigned from the text. Homework will be graded only as to its completeness, not correctness. Its purpose is to prepare students for in-class quizzes and the final exam. We will have five Lab Assignments which are designed to familiarize students with the UNIX operating system, compiling and running C++ programs, sorting algorithms and their asymptotic run times, assembly language programming, and the C++ programming language. These assignments will be turned in electronically via the ’submit’ command which will be described later. Please do not attempt to turn in any assignment by email. No credit will be given for such work. We will also have five in-class Quizzes, one every two weeks starting Thursday January 15. A complete schedule of quizzes, along with
solutions can be found on the website. The **Final Exam** will be held on **Tuesday, March 16 12:00-3:00pm**. Please make arrangements now to be available on that day. 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.

**Getting a Computer Account:**

It is a requirement of this course that each student have a CATS (Communications and Technology Services) computer account. Go to the following webpage for instructions:

http://www2.ucsc.edu/cats/sc/services/accounts/acct-cats-student.shtml

**Academic Honesty:**

The Computer Science Department of UCSC 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, suspension and/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 lab assignment, quiz, or homework, allowing your own work to be copied, or in any way facilitating someone in cheating. Although you may discuss 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. You may freely give and receive help with the computer facilities, editors, the UNIX operating system, and the proper use and syntax of the C++ programming language, but you may not copy, paste, email, or in any way share code. If you do collaborate (legitimately) or receive any form of help from anyone, you must credit them by placing their name(s) at the beginning of your assignment.

The following is from the Winter 2004 Schedule of classes under General Information:

**Academic Integrity**

All members of the UCSC academic community have an explicit responsibility to present as their original work only that which is truly their own. Cheating, plagiarism, and other forms of academic dishonesty are contrary to the ideals and purposes of a university and will not be tolerated. Note that plagiarism includes the deliberate misrepresentation of someone else’s words and ideas as your own, as well as paraphrasing without footnoting the source. Students and faculty are jointly responsible for assuring that the integrity of scholarship is valued and preserved. The full text of the policy on academic dishonesty can be found at: http://oasas2.ucsc.edu/avcued/integrity/

**Due Process**

Students charged with academic dishonesty have the right to due process through established policies and regulations concerning student conduct and discipline. Copies of these policies and regulations can be found in the UCSC Student Policies and Regulations Handbook which is available at the offices of each college provost, the dean of graduate studies, the Vice Chancellor of Student Affairs, and at the website: http://www2.ucsc.edu/judicial/