

CMPS 010

Introduction to Computer Science

Fall 2002

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 substantial mathematical content.

Time and Place: Section 01- MWF 3:30-4:40 Thimann Lecture 3
Section 02- TTh 12:00-1:45 Oakes 105

Instructor: Patrick Tantalo (ptantalo@soe.ucsc.edu) <http://www.cse.ucsc.edu/~ptantalo/>

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Office Hours: MWF 11:00-1:00

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Teaching Assistants:

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Secondary Labs: In addition to the lectures, there are a number of lab sections. The purpose of these secondary labs is for the TAs and tutors to provide help with homework and lab assignments, as well as to provide facilities for you to work on 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 computer lab on campus. A schedule of lab times will be posted on the class webpage. Note that the lab times posted in the schedule of classes will be subject to change.

Text: *An Invitation to Computer Science*, Second Edition, by G. Michael Schneider & Judith L. Gersting. Brooks/Cole Publishing 1999. We will cover chapters 1-7 (roughly).

Class Webpage: <http://www.soe.ucsc.edu/classes/cmeps010/Fall02/>

Class News Group: ucsc.class.cmeps010

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

Homework and Lab Assignments	30%
Quizzes	30%
Final Exam	40%

Homework consists of written assignments taken from the exercises at the end of each chapter and is due at the beginning of class one week from the date assigned. There will be a number of **Lab Assignments** designed to familiarize students with the UNIX operating system, and the C++ programming language. These assignments will be turned in electronically via the "*submit*" command which will be described later (not by email). We will have five **Quizzes**, one every two weeks. The **Final Exam** will be held:

Section 01 (MWF 3:30-4:40): Tuesday, December 3 8:00–11:00 am

Section 02 (TTh 12:00-1:45): Thursday, December 5 12:00–3:00 pm

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 written homework assignment, lab assignment, or quiz, 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 top of your paper.

The following is from the Fall 2002 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/avcue/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/>