

- **Course:** Introduction to Computer Science
This course is an introduction to the fundamental concepts, issues, and methods of computer science. The unifying theme is the design, theory, implementation, and applications of algorithms. While there are no prerequisites, this is a computer science course, and not a computer literacy course. In other words, we will cover some challenging material with a fair amount of abstract mathematical content. Students interested in a more leisurely introduction to computers should consider taking CMPS 2 (Computer Literacy) or CMPE 3 (Personal Computers).
- **Time & Place:** MW 5:00pm-6:45pm, J Bask Aud 101
- **Lab/Discussion Sections:** These are subject to change. For latest check the class web page.
 - A Tuesday 11:00am-12:00noon, BE 105
 - B Tuesday 6:00pm-7:00pm, BE 105
 - C Friday 5:00pm-6:00pm, BE 105
 - D Monday 1:00pm-2:00pm, Soc Sci I PC(Room 135)
 - E Wednesday 9:00am-10:00am, BE 109

The purpose of the lab/discussion 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 is encouraged but is entirely optional.
- **Instructor:** Dean Bailey; office: E2 249B; phone: 831-459-1339, e-mail: dbailey@soe.ucsc.edu
- **Teaching Assistants:** Enela Pema, e-mail: epema@soe.ucsc.edu and Dimitris Skourtis, e-mail: skourtis@soe.ucsc.edu
- **Office Hours:**
 - Bailey: Tuesday, 2:00pm-4:00pm and by appointment, E2 249B.
 - Pema: tbd
 - Skourtis: tbd
- **Textbook:** *Invitation to Computer Science, Fourth Edition, C++ Version*, by G. Michael Schneider and Judith L. Gersting.
- **Syllabus:** The following is a tentative syllabus for the course:

Wk	Topics	Readings
1	An Introduction to Computer Science	Chapter 1
	Algorithm Discovery and Design	Chapter 2
2	The Efficiency of Algorithms	Chapter 3
3	The Building Blocks: Binary Numbers, Boolean Logic, and Gates	Chapter 4
	Computer Systems Organization	Chapter 5
4	An Introduction to System Software and Virtual Machines	Chapter 6
	Computer Networks, the Internet, and the World Wide Web	Chapter 7
5	Introduction to High-Level Language Programming	Chapter 8
6	The Tower of Babel Compilers and Language Translation	Chapter 9-10
7	Models of Computation Simulation and Modeling	Chapter 11-12
8	Electronic Commerce and Information Security	Chapter 13
9	Artificial Intelligence	Chapter 14
10	Making Decisions about Computers, Information, and Society	Chapter 15

- **Evaluation:** The course work will be weighted as follows:

Homework Assignments	10%
Program Assignments	25%
Four in-class Quizzes	30%
Final Exam	35%

N.B. Passing grades in **all** four parts are required to pass the course.

- **Examination and Quiz Schedule:**

1. Quizzes:

- Quiz 1: Wednesday, January 21
- Quiz 2: Wednesday, February 4
- Quiz 3: Wednesday, February 18
- Quiz 4: Wednesday, March 4
- Final Exam: Thursday, March 19, 12:00noon-3:00pm

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://oasas.ucsc.edu/avcue/integrity>. Specifically for this class, if you are caught turning in work as your own, that is not solely your own, or assisting others in doing so, a formal written report will be sent to your Department, the School of Engineering, and to your Provost and academic preceptor. Furthermore you will get a failing grade for the course and the incident will be noted in your evaluation.

- **Miscellanea**

- We will use WebCT for news, discussion, some quizzes, submission of lab assignments and reporting of scores.
- Homework will consist of written assignments taken from the exercises at the end of each chapter and/or WebCT quizzes. Written homework will be graded as to its completion and the correctness of a selected subset of the assigned questions. WebCT homework quizzes may be taken repeatedly to improve the score. All written homework assignments are to be handed in at the beginning of Class on due date.
- Solutions to homework problems will be presented and discussed in sections and/or class. They will not be posted.
- We will provide solutions to the problems in the quizzes after the grading has been completed.
- We will *not* distribute or post "sample" examination problems or "sample" quiz problems.