CSE 102
Introduction to Analysis of Algorithms
Winter 2020

Description:
Methods for the systematic construction and mathematical analysis of algorithms. Order notation, the RAM model of computation, lower bounds, and recurrence relations are covered. The algorithm design techniques include divide-and-conquer, branch and bound, and dynamic programming. Applications to combinatorial, graph, string, and geometric algorithms.

Time and Place:  TTh 11:40am-1:15pm  Thimann Lecture 3
Class Webpage:  https://classes.soe.ucsc.edu/cse102/Winter20/

Instructor:  Patrick Tantalo  http://users.soe.ucsc.edu/~ptantalo/
Office: E2 239A
Office Hours:  Wednesday 10:00-12:00pm & 2:00-6:00pm, or by appointment
Email:  ptantalo@soe.ucsc.edu

Teaching Assistants:
Rongwen Zhao (rzhao17@ucsc.edu)
Jayanth Yetukuri (jyetukur@ucsc.edu)
Trung Nguyen (trung.n@ucsc.edu)

MSI Tutor:
Adarsh Sekar (adsekar@ucsc.edu)

Required Text:

Recommended Texts:

Coursework:
• 10% Homework:  Written exercises, mostly from CLRS
• 10% Programming Project:  One project, due later in the quarter
• 20% Midterm Exam 1:  Thursday January 30, 11:40am-12:45pm (lecture to follow)
• 20% Midterm Exam 2:  Thursday February 27, 11:40am-12:45pm (lecture to follow)
• 40% Final Exam:  Monday March 16, 8:30–10:30am

All scores will be rounded to the nearest 10th of a percent. They will not be rounded further. No scores in this class are curved. The following letter grade boundaries will be used to determine your grade in the class.

Grading scale:
A+  97.0% - 100%
A   93.0% - 96.9%
A-  90.0% - 92.9%
B+  87.0% - 89.9%
Accommodations for Students with Disabilities

UC Santa Cruz is committed to creating an academic environment that supports its diverse student body. If you are a student with a disability who requires accommodations to achieve equal access in this course, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) to me privately during my office hours (or by appointment), preferably within the first two weeks of the quarter. At that meeting, we will discuss how to best ensure your full participation in the course. I encourage all students who may benefit from DRC services, or who wish to just learn more about those services, to contact DRC by phone at 831-459-2089, or by email at drc@ucsc.edu. See also https://drc.ucsc.edu/.

Academic Honesty:

The Baskin School of Engineering has a zero tolerance policy for any incident of academic dishonesty. If cheating occurs, consequences 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 or dismissal from the Baskin School of Engineering, or from UCSC.

What is cheating? In short, it is presenting someone else’s work as your own. Examples would include copying written homework solutions from another student, or allowing your own work to be copied. Sharing any kind of information on an exam would also be considered cheating. You may discuss your homework solutions with fellow students, but your collaboration must be at the level of ideas only. You may freely give and receive help with any example discussed in class, in the text, or in one of the handouts. However, you may not share in the act of writing your solutions to homework problems. Please see the following links for the official UCSC policies on Academic Misconduct for

Graduate Students: https://www.ucsc.edu/academics/academic-integrity/
Undergraduate Students: https://www.ue.ucsc.edu/academic_misconduct