CSE 101 (Sections 01 & 02)  
Introduction to Data Structures and Algorithms  
Spring 2023

**Description:** Introduction to abstract data types and basics of algorithms. Linked lists, stacks, queues, hash tables, trees, heaps, and graphs will be covered. Students will also be taught how to derive big-Oh analysis of simple algorithms. All assignments will be in C/C++.

**Prerequisites:** CSE 12 or BME 160; CSE 13E or ECE 13 or CSE 13S; and CSE 16; and CSE 30; and MATH 11B or MATH 19B or MATH 20B or AM 11B.

**Lecture Times:**
CSE 101-01: TTh 9:50-11:25am   Earth & Marine B206  
CSE 101-02: TTh 3:20- 4:55pm   Thimann Lecture 003

**Class Webpage:** https://people.ucsc.edu/~ptantalo/cse101/Spring23/  

**Instructor:** Patrick Tantalo  https://users.soe.ucsc.edu/~ptantalo/  
**Email:** ptantalo@soe.ucsc.edu

**Office Hours:** Wednesday: 10:00am-12:00pm & 2:00pm-4:00pm  Zoom Link  (Uses CruzID Gold)  
**Meeting ID:** 920 6707 0764  
**Dates:** Wednesday April 5 - Wednesday June 7

**Teaching Assistants:**  
Saeed Kargar  (skargar@ucsc.edu)  
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**Course Tutors:**  
TBA

**LSS Tutors:**  
Joshua Ange  (joangel@ucsc.edu)  
Brandon Luu  (bgluu@ucsc.edu)

**Required Text:**  

**Recommended Texts:**  
Coursework:
70% Programming Assignments: Eight projects due at roughly 7-8 day intervals
10% Midterm Exam 1: Thursday April 27
   101-01: 9:50-10:55am (lecture to follow)
   101-02: 3:20-4:25pm (lecture to follow)
10% Midterm Exam 2: Thursday May 25
   101-01: 9:50-10:55am (lecture to follow)
   101-02: 3:20-4:25pm (lecture to follow)
10% Final Exam: 101-01: Monday June 12, 12:00 – 2:00 pm
   101-02: Thursday June 15, 12:00 – 2:00 pm

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

Grading scale:
- A+ 99.0% - 100%
- A  94.0% - 98.9%
- A- 91.0% - 93.9%
- B+ 89.0% - 90.9%
- B  84.0% - 88.9%
- B- 81.0% - 83.9%
- C+ 79.0% - 80.9%
- C  70.0% - 78.9%
- C- 68.0% - 69.9%
- D+ 65.0% - 67.9%
- D  61.0% - 64.9%
- D- 59.0% - 60.9%
- F  0% - 58.9%

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 contact the Disability Resource Center (DRC) by email drc@ucsc.edu or by phone 831-459-2089. Once I receive your accommodation authorization from the DRC, I will be happy to meet with you in office hours to discuss how to ensure your full participation in the course. See https://drc.ucsc.edu/ for further information.

Academic Honesty:
The Baskin School of Engineering has a zero-tolerance policy for any incident of academic misconduct. If cheating occurs, consequences may range from getting zero on a particular assignment to failing the course. In addition, every case of academic misconduct 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 include copying another student’s, programming assignment, or exam solution; allowing your own work to be copied; or in any way facilitating misconduct by others. You may discuss programming projects with fellow students, but your collaboration must be at the level of ideas only. You may freely give and receive help on the UCSC computer facilities, code editors and IDEs, the UNIX operating system, and on the proper use and syntax of the C and C++ programming languages. You may also freely use any example code posted by me on the class webpage. However, you may not copy, paste, email, transfer, view or share in any way the source code for projects in this class. Go to https://ue.ucsc.edu/academic-misconduct.html to see the official UCSC policy on Academic Misconduct.
Important Dates and Information:
  Waitlists expire: Tuesday, April 11
  Permission Numbers Required: Wednesday, April 12
  Add/Drop/Swap deadline: Friday, April 21
  Withdraw from class deadline: Friday, May 12
  Enrollment FAQ: https://registrar.ucsc.edu/faqs/students/enrollment/index.html
  Waitlist FAQ: https://registrar.ucsc.edu/faqs/students/wait-list/index.html
  Enrollment Videos: https://orientation.ucsc.edu/next-steps/slug-videos.html#enrollment
  More How-To Videos: https://orientation.ucsc.edu/summer/how-to-index.html