CMPS 12B/M
Introduction to Data Structures
Summer 2017 (June 26 – August 18)

Description: Teaches students to implement common data structures and the algorithms associated with each data structure, through progressively difficult exercises. Topics include big “O” notation; pointers, recursion (induction), and dynamic allocation; linked lists and list processing; stacks, queues, binary trees and binary search trees; simple sorting techniques and simple search techniques. Students will gain a working knowledge of the elements of the Java and C programming languages. Prior experience with Unix is assumed. Prerequisites: CMPS 11 or 12A or CMPE 13. Concurrent enrollment in CMPS 12M is required.

Time and Place: TTh 10:00-12:30 Jack Baskin Auditorium 101
Class Webpage: https://classes.soe.ucsc.edu/cmps012b/Summer17/

Instructor: Patrick Tantalo http://users.soe.ucsc.edu/~ptantalo/
Office: E2 255
Office Hours: TTh 2:30-4:00pm, W 3:30-6:30pm, or by appointment
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Phone: 831-459-3898

Teaching Assistants:
Srikanth Munjuluri (smunjulu@ucsc.edu)
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MSI Tutor:
Scott Davis (okdogulu@ucsc.edu)


Supplementary Texts:

Coursework for CMPS 12B:
• Five programming assignments due at roughly 8 day intervals.
• Midterm Exam 1 to be held Thursday July 13
• Midterm Exam 2 to be held Thursday August 3
• Final Exam to be held Thursday August 17, 10:00-12:00pm

Coursework for 12B will be weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Programming Assignments</td>
<td>30%</td>
</tr>
<tr>
<td>Midterm Exam 1</td>
<td>10%</td>
</tr>
<tr>
<td>Midterm Exam 2</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>35%</td>
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Coursework for CMPS 12M:
- Eight lab assignments due at roughly 6 day intervals.
- The 12B final exam (Thursday August 17, 10:00-12:00pm) will contribute toward your grade for 12M.

Coursework for 12M will be weighted as follows:
- Lab Assignments: 80%
- Final Exam: 20%

Grading scale for both 12B and 12M:
- A+: 97.0%-100%
- A: 93.0%-96.9%
- A-: 90.0%-92.9%
- B+: 87.0%-89.9%
- B: 83.0%-86.9%
- B-: 80.0%-82.9%
- C+: 76.0%-79.9%
- C: 70.0%-75.9%
- C-: 67.0%-69.9%
- D+: 64.0%-66.9%
- D: 61.0%-63.9%
- D-: 58.0%-60.9%
- F: 0%-57.9%

Letter grade boundaries may be lowered at my discretion in order to eliminate some borderline cases.

Accommodations for Students with Disabilities
If you qualify for classroom accommodations because of a disability, please get an Accommodation Authorization from the Disability Resource Center (DRC) and submit it to me in person outside of class (i.e. during office hours) within the first two weeks of the quarter. Contact DRC at 459-2089 (voice), 459-4806 (TTY), or http://drc.ucsc.edu for more information.

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 another students’ programming assignment, lab assignment or exam, or allowing your own work to be copied. You may discuss programs with fellow students, but your collaboration must be at the level of ideas only. You may freely give and receive help with the computer facilities, editors, the UNIX operating system, and the proper use and syntax of the Java and C programming languages; but you may not copy, paste, email, transfer or in any way share source code, or in any way share in the act of writing your solutions. If you do collaborate (legitimately) or receive help from anyone, you must credit them by placing their name(s) at the top of your program or paper. Please see the University's policy on Academic Misconduct at: https://www.ue.ucsc.edu/academic_misconduct.

Some Important Summer Session Deadlines:
- Last day to drop: Monday July 10 (week 3)
- Last day to withdraw: Friday July 28 (week 5)