CS 240—Data Structures and Algorithms I
Fall 2011

MWF 9:15 AM–10:20 AM, Room 8-345

Alex Vondrak
ajvondrak@csupomona.edu
www.csupomona.edu/~ajvondrak/cs/240

Office 8-39 ☎ (909) 869-3449
MWF 10:30 AM–12:00 PM
TuTh 10:00 AM–12:00 PM

Text Book

Michael Main. *Data Structures & Other Objects Using Java*. 3rd ed. Addison-Wesley. ISBN: 978-0-321-37525-4.

Recommended Reading

Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein. *Introduction to Algorithms*. 3rd ed. The MIT Press. ISBN: 978-0-262-03384-8.

Grading

Exams 60%
- Midterm (tentatively Monday October 31) 25%
- Final (Monday December 5, 9:10 AM–11:10 AM) 35%

Programming projects (approximately four) 25%
Homework 15%

The overall course grades will be assigned according to the curve of weighted average percentages, with the median student typically earning a `C+`.

We will have roughly one assignment per week. Assignments will be accepted without penalty at any time on or before their due date. Submissions after the due date will each have their score reduced by $10(n + 1)\%$, where n is the number of school days properly between the due date and date submitted. You will receive a score of 0 on any work that I believe came from the Internet or was otherwise plagiarized.

Programming projects will be submitted via email. I will accept homework by email as a submission of record, but must subsequently receive an identical paper submission by the next class session. If I do not, or if I receive a modified paper submission, the late penalty will apply as described. If an email submission is not received or is lost for *any* reason, it will be treated as if never submitted.

There will be no make-ups for exams without prior approval.

Coverage

- Arrays (Chapter 3.1)
- Algorithm analysis (Chapter 1.2)
- Searching (Chapter 11.1)
- Generics (Chapter 5)
- Stacks (Chapter 6)
- Queues (Chapter 7)
- Linked lists (Chapter 4)
- Recursion (Chapter 8)
- Hashing (Chapter 11.2–11.5)