Data Structures and Algorithms **Contra Costa College**
COMP-252, Section 1502 **Spring 2007**

Title: Data Structures and Algorithms
Class Hours: MW 12:40 – 2:00 PM in CCTC 133
Lab Hours: WW 2:10-3:30 PM in CCTC 133
Requirements: You must also be enrolled in **COMP-095C-6694**
Office Hours: MTuWTh 11:30-12:30pm, W 3:30-4:30pm
Prerequisite: COMP-251
Text: *Data Structures and Algorithms in C++*, by Drozdek 3rd Edition

Section: COMP-252, Sec-1502
Instructor: Tom Murphy
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Course Website: http://contracosta.edu/CS/COMP-252/
Units: 4
Method of Instruction: Lecture and Lab

Overview:

This course is designed to present programming concepts/methodology for high-level language large programming tasks using data abstraction, structures, and associated algorithms. Topics include lists, stacks, queues, trees, hash tables, sorting, searching, and recursion. Not repeatable.

Tentative Schedule:

Date	Today's Reading	Hw due today	Date	Today's Reading	Hw due today	Lab due today
Jan 15	Martin Luther King, Jr.'s Birthday		Jan 17	Chap 1:		
Jan 22	Chap 2:	p47 #1,3,6-9,12,15	Jan 24	Chap 3:	p72 #1,2,4,6,8-10	
Jan 29	Last day to drop with refund					
Jan 28-30	Navajo Workshop		Jan 31	Chap 4.1-4.2	p131 #1,4,5,10,11,13,19	Simple
Feb 5	Chap 4.3-4.7	p166 #1,2,3,5	Feb 7	Chap 5.1-5.5	p166 #8,9	
Feb 9	Legal Holiday, Lincoln's Birthday					
Feb 12	Last day to drop without a "W"					
Feb 12	Chap 5.6-5.11	p208 #1-4,9	Feb 14	Chap 6.1-6.4	p209 #11,12,14,16	Normal
Feb 19	Legal Holiday, Washington's Birthday		Feb 21	Chap 6.5-6.7	p290 #1,4,10	
Feb 26	Chap 6.8	p290 #2,3,9	Feb 28	Chap 6.9-6.11	p291 #6,7	
Mar 5	Chap 7.1	p291 #8,12,18,23,24	Mar 7	Chap 7.2-7.4	p369 #2,5,8	Extreme
Mar 12	Chap 8.1-8.3	p370 #19,20	Mar 14	Chap 8.4-8.6	p465 #1,2,5,18	
Mar 19	Chap 8.7-8.11	p466 #20,21,23,24	Mar 21	Chap 9.1	p468 #14,25,30,32,33	Read/Echo
Mar 26	Midterm Review	p520 #1,4	Mar 28	Midterm		
Mar 30	Legal Holiday, Cesar Chavez Day					
Apr 2-6	Spring Recess					
Apr 9-13	Out of Class					
Apr 16	Chap 9.2-9.3		Apr 18	Chap 9.4-9.6	p520 #7,8,9	
Apr 23	Chap 10.1-10.3	p521 #15	Apr 25	Chap 10.4-10.6	p560 #2	Differentiate
Apr 27	Last day to drop with a "W"					
Apr 30	Chap 11.1-11.2	p560 #4,6,11	May 2	Chap 11.3-11.6	p596 #1,4	
May 7	Chap 12	p596 #9,10	May 9	Chap 13	p638 #1,5,8	All Together
May 14	Final Review	p708 #1	May 16	Final		

Grading

Daily Quizzes	1 point per exam	(15% total grade)
Homework	1 point per question	(15% total grade)
Midterm		(20% total grade)
Final		(30% total grade)
Lab Work	1 point per lab	(20% total grade)

Grading Option

This is a student choice class.

Grading Scale

Your final **grade** is based on the Daily Quizzes, Homework, Lab Work, Midterms, and Final, in the proportions shown above, as well as any Extra Credit opportunities which may be provided.

A	90% - 100%	Credit	65% - 100%
B	80% - 89%	No Credit	0% - 64%
C	65% - 79%		
D	50% - 64%		
F	0% - 49%		

Ground rules

1) Contents of this syllabus are subject to change with notification. See the above course URL for the latest version.
2) I will give you my respect. I expect your respect for all others in the course.
3) You are responsible for the material of this course, as assigned in the readings, whether or not you are in class, and whether or not I cover it in class. If you don't understand, then ask questions: in class, with a tutor, during office hours, or at some time we arrange.
4) A Daily Quiz is administered at the beginning of class. There is no makeup for these quizzes.
5) Midterm will be given during the lab time on Mar 22, as shown in the schedule. Exams must be taken when scheduled and are open book. Choose a seat for exams so that all seats next to you are empty. Make up exams will not be given without prior approval.
6) Labs are a programming task due on the date shown in the syllabus. Sign up for a 10 minute grading session with me during the lab time where you will compile and run your program with a comprehensive test suite.
7) Lecture and Laboratory attendance is required. I may choose to drop you if you miss more than six sessions without prior approval.
8) Homework is due in the beginning of class. Late homework will not be accepted. Expect to work at least six hours per week on course material outside of class and lab time. One problem, chosen at random, will be the basis for the grade of each assignment.
9) Opportunities for Extra Credit work may be given to stimulate student thinking and improve knowledge of course material.
10) I encourage you to work with other people on homework and lab assignments. You or they may be able to explain something more clearly than I say it. However you must own, i.e. fully comprehend, all work you turn in to me.
11) Students with learning, physical, or psychological disabilities can discuss their needs with the staff in the DSPS office located in H19.
12) Tutoring may be available from the tutoring center in AA-213. Consider using them to build your knowledge.
13) During the course, various handouts may be distributed during lecture or lab. Handouts are only available on the day they are passed out. If you miss receiving a handout, borrow the "missed" handout from a classmate and make yourself a photo-copy.
14) Radios or other listening devices may not be used in the laboratories or classrooms. Turn off any of your audible alarms.
15) Neither food, nor drinks, nor children may be brought into the classroom or laboratories.