

**Fundamentals of Computer Science C++  
COMP-251, Section 1029**

**Contra Costa College  
Fall 2007**

**Title:** Fundamentals of Computer Science C++  
**Class Hours:** MW 12:40-2:00 PM in CTC-113  
**Lab Hours:** TuTh 12:40-2:00 PM in CTC-113  
**Requirements:** You must also be enrolled in **COMP-095A-6342**  
**Office Hours:** MTuWTh 11:30-12:30pm, F 12-1pm  
**Text:** *Starting Out with C++*, by Gaddis, 5e  
**Course URL:** <http://www.contracosta.edu/CS/murphy/COMP-251/>  
**Yahoo Group:** [CCC-ComputerScience-subscribe@yahoogroups.com](mailto:CCC-ComputerScience-subscribe@yahoogroups.com)  
**Podcast:** <http://deimos.apple.com/WebObjects/Core.woa/Browse/contracosta.edu.1273718453>

**Section:** COMP-251, Sec-1029  
**Instructor:** Tom Murphy  
**Office:** CTC-125  
**Phone:** 235-7800 X4348  
**Email:** [tmurphy@contracosta.edu](mailto:tmurphy@contracosta.edu)  
**Units:** 4  
**Grading Option:** Student Choice  
**Method of Instruction:** Lecture and Lab

**Overview:**

Introduction to Computer Science, computers, algorithms and data structures. Machine representation of data and programs. The design, theory, and execution of algorithms including recursion. Program correctness and efficiency. Abstract data types using pointers. Programming examples from an object oriented perspective using the C++ language. Not repeatable.

**Grading**

<b>Directed Reading Exams</b>	1 point per exam	(15% total grade)
<b>Homework</b>	1 point per assignment	(20% total grade)
<b>Project(Lab)</b>	10% per lab	(20% total grade)
<b>Midterm</b>		(20% total grade)
<b>Final</b>		(25% total grade)

**Grading Scale**

Your final **grade** is based on the above grading scheme, 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.
- 2) I will give you my respect. I expect your respect for all others in the course.
- 3) I will be doing some lectures during lab time. Lab time is typically a student directed problem session
- 4) You are responsible for the material of this course, as assigned in this syllabus, whether or not you are in class, and whether or not I cover it in class. If you don't understand, ask questions: in class, with a tutor, during office hours, or at some time we arrange.
- 5) Assigned Reading Exams are given in the first five minutes of each class. There is no makeup for these exams
- 6) Exams must be taken when scheduled and are open notes. Make up exams will not be given without **prior** approval.
- 7) Projects will be programmed by groups of 4-5 students, assigned by me. There will be one grade for the entire group.
- 8) Lecture and Laboratory attendance is required. I may choose to drop you if you miss more than two classes or labs without prior approval.
- 9) Homework is due in the beginning of class and is not accepted late. Expect to spend at least six hours per week studying outside of class..
- 10) Opportunities for Extra Credit work may be given to stimulate student thinking and improve knowledge of course material.
- 11) I encourage you to work with other people on homework assignments. You or they may be able to explain something more clearly than I say it. However, do not look at anyone else's work or allow anyone to type anything for you.
- 12) Students with learning, physical, or psychological disabilities can discuss their needs with the staff in the DSPS office located in H19.
- 13) Tutoring may be available from the tutoring center in AA-213. Consider using them to build your knowledge.

14) Aug 29 last day to add, Sept 14 last day to drop with no grade, and Nov 15 is last day to drop with grade

**Tentative Schedule:**

Date	Reading Assignments	H/W	Date	Reading Assignments	H/W	Project
			Aug 15	Chap 1	p23: 6, 33-36	
Aug 20	Chap 2.1-7		Aug 22	Chap 2.8-16	p70 3, 4, 8, 25-27; p74 Prog 1, 5	
Aug 27	Chap 3.1-5		Aug 29	Chap 3.6-14	p147 1, 3, 5, 9, 12, 15, 17, 31, 34, 38; p154 Prog 1, 6	
Sep 3	Holiday - Labor Day		Sep 5	Chap 4.1-7		
Sep 10	Chap 4.8-17	p230 31, 33, 35, 39-40, 58, 61, 63, 65; p237 Prog 1, 6, 11	Sep 12	Chap 5.1-5		
Sep 17	Chap 5.6-13	p288 1, 4, 7, 9-10, 30, 35, 38, 56, 58, 60; Prog 1, 7, 12	Sep 18-20	Intel Developer Forum (I am gone)		
Sep 24	Chap 6.1-9		Sep 26	Chap 6.10-16	p362 1-2, 4, 8, 32, 33, 37, 56-60; Prog 2, 5	
Sep 28	Holiday - Native American Day					midterm Chap 1-6 (Oct 2)
Oct 1	Chap 7.1-7					
			Oct 3	Chap 7.8-12	p441 1-2, 6-7, 9, 14, 43- 44, 47, 84-94; Prog 1, 7	p371 Prog 21 (due Oct 8)
Oct 8	Chap 9.1-6		Oct 10	Chap 9.7-10	p536 1-7, 24-27, 48-57; Prog 1	
Oct 15	Chap 10	p584 1, 4-5, 7, 27-32	Oct 17	Chap 11.1-6		
Oct 22	Chap 11.7-12	p638 1-4, 9, 12, 19, 29, 35, 57- 67; Prog 1	Oct 24	Chap 12	p701 1-5, 41-42, 46	
Oct 29	Chap 13.1-8		Oct 31	Chap 13.9-16	p793 1-2, 4-7, 9-14, 43- 47, 73-76; Prog 1	p804 Prog 16 (due Nov 19)
Nov 5	Chap 14.1-4		Nov 7	Chap 14.5-8	p865 1-16, 22-25, 39- 43, 59-63; Prog 1	
Nov 12	Holiday - Veterans Day		Nov 13-15	Supercomputing 2007 (I am gone)		
Nov 19	Chap 15.1-4		Nov 21	Chap 15.5-8	p938 1-14, 34-37, 53- 58; Prog 1	
Nov 22-23	Holiday - Thanksgiving					
Nov 26	Chap 16	p1001 1-12, 24-25, 47-53	Nov 28	Chap 17	p1041 1-9, 21, 33-35	final Chap 1-7, 9-16, 17, 19 (Dec 5)
Dec 3	Chap 19	p1119 1-5, 12-14; Prog 1				