

**Instructor:** Joe Bentley 831.239.8173 (< 9 pm)

**Email:** [bentleyjoe@deanza.edu](mailto:bentleyjoe@deanza.edu)

**Class Schedule:** Lecture: TTh 6:00-7:50 pm Location: ATC 202 Online Time : W 7:00-8:15 pm

**Office Hours:** Tuesday and Thursday 5:15-5:45 pm Location: ATC Lab (Room 203)

**Course Description:** An introduction to computer programming. Its primary objective is to teach problem solving using the C++ programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. Designed primarily for computer science and related transfer majors.

**Requisites:** (Students may receive credit for either Computer Information Systems (22A and 22B) or 27, but not both.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 114 or equivalent

**Student Learning Outcomes:**

- Design solutions for introductory level problems using appropriate design methodology incorporating elementary programming constructs.
- Create algorithms, code, document, debug, and test introductory level C++ programs.
- Read, analyze and explain introductory level C++ programs.

**Textbook:** (Required) Starting Out with C++: From Control Structures through Objects, 8th Edition by Gaddis

**Assignments:** There will be **eight** programming assignments in the class. The description of each assignment will be posted on the class web page. Each assignment is due at the **beginning** of the class session on the specified date on the schedule. **Assignments will not be accepted late.** Assignments are to be completed individually and must fulfill the program requirements. **Assignments with compiler errors will not be accepted.** Only seven assignments will be used to determine your final grade. Your programming assignment with the lowest grade of the first seven assignments will be discarded. **The last assignment may not be discarded.**

**Lab Exercises:** There will be a lab exercise (usually a short programming problem) after each class session. These exercises will be due before the next class session.

**Attendance:** You are responsible for all material covered in each class meeting. **Programming Assignments and Lab Exercises are due on the dates specified, even if you are absent. The midterm and final may only be made up if prior arrangements are made.**

**Class Format:** Class sessions will consist of a lecture/discussion followed by a lab exercise.

**Tests:** There will be a midterm and a final. **If you are late for the test, you will not be permitted any extra time for the test.**

**Help from the Instructor:** It is recommended that you take advantage of the online time, and the instructor's office hours. The instructor is available to answer individual questions, assist with compiler problems, assist with debugging programs, and discuss and clarify assignments. It is also recommended that you make use of email to ask questions or to seek assistance with programming assignments.

**Grading Policy:**

Programming Assignments	140	points 20 each	<b>Points</b>	<b>Percent</b>	<b>Grade</b>
Lab Exercises	60	" 3 each	360-400	90-100%	A
Midterm	75	"	320-359	80-89%	B
Final	125	"	280-319	70-79%	C
Extra Credit: Codelab	~20	points prorated	240-279	60-69%	D
			Below 240	Below 60%	F
Total	400		+ or – added if within 2% of grade boundary		

You will not be automatically dropped from the class, even if you discontinue attending. It is your responsibility to withdraw by the end of the eighth week of classes.

## CIS 22A

## Class Schedule – Winter 2015 – Joe Bentley

Tuesday	Thursday	Read
1/6 Class Introduction and Overview	1/8 Programming Concepts Compilation Lab Ex #1	Chapter 1
1/13 cout Types, Variables, constants Lab Ex #2	1/15 Assignment 1 due Statements & Expressions Assignment statements Lab Ex #3	Chapter 2 Last date to: add 1/17
1/20 C++ Input  Lab Ex #4	1/22 Assignment 2 due Formatted output  Lab Ex #5	Chapter 3
1/27 if statment if/else Lab Ex #6	1/29 Assignment 3 due switch statement Conditional operator Lab Ex #7	Chapter 4
2/3 Introduction to Functions  Lab Ex #8	2/5 Assignment 4 due Loops  Lab Ex #9	Chapter 5
2/10 More Looping  Lab Ex #10	2/12 <b>MIDTERM</b>	
2/17 File I/O  Lab Ex #11	2/19 Assignment 5 due More File I/O  Lab Ex #12	
2/24 Functions – pass by value  Lab Ex #13	2/26 Functions – pass by reference  Lab Ex #14	Chapter 6 Last date to withdraw 2/27
3/3 Still more functions  Lab Ex #15	3/5 Assignment 6 due Introduction to Arrays  Lab Ex #16	
3/10 More Arrays  Lab Ex #17	3/12 Assignment 7 due Sorting & Searching  Lab Ex #18	Chapter 7
3/17 Putting it together  Lab Ex #19	3/19 Assignment 8 due Review  Lab Exercise 20	
3/24  <b>Final 6:15 – 8:15 pm</b>		

