

**32225 CS 002A - 03W Object Oriented Programming  
Methodologies in C++**

**CANVAS: ONLINE CURRICULUM**

**Recommended TEXT - Any *one* of them**

**Starting Out with C++ from Control Structures to Objects, Any  
Edition, Tony Gaddis**

**Savitch, Walter. Absolute C++. 3rd Edition, Addison Wesley,  
2008**

**[Syllabus Link in Foothill College website](#)**

**College holidays -> Jan 21, Feb 18**

**Assignment Due Dates Jan 14,23,28, Feb 4,11,20,25, Mar 4,11,18,25**

**Midterm ONE- Feb 2,3,4 Midterm TWO - Mar 1,2,3**

**All date/time is in Pacific Time (PT) USA**

**(72 hour window, 2 hours timed midterms)**

**FINALS - Mar 26,27 (48 hour window, 2 hours final)**

**COURSE MODULES IN CANVAS ARE TECHNICAL CONTENT ONLY  
ONLY SYLLABUS ie THIS DOCUMENT STATES THE RULES OF CLASS**

**Assignment Section (Side toolbar) in Canvas have assignments**

**SYLLABUS ie this document is THE DOCUMENT for class rules.**

**SYLLABUS, ie this document is the FINAL SAY for all course rules and  
regulations.**

**Academic Integrity**

<https://foothill.edu/handbook/pdf/z-card.pdf>

## **DRC Information:**

To obtain disability-related accommodations, students must contact Disability Resource Center (DRC) as early as possible in the quarter. To contact DRC, you may:

- Visit DRC in Room 5400
- Email DRC at [adaptivelearningdrc@foothill.edu](mailto:adaptivelearningdrc@foothill.edu)
- Call DRC at 650-949-7017 to make an appointment

If you already have an accommodation notification from DRC, please contact me privately to discuss your needs.

## **CS 2A SLO (Student Learning Objectives):**

### **SLO #1**

- A successful student will be able to write and debug C++ programs which make use of the fundamental control structures and method-building techniques common to all programming languages. Specifically, the student will use data types, input, output, iterative, conditional, and functional components of the language in his or her programs.

### **SLO #2**

- A successful student will be able to use object-oriented programming techniques to design and implement a clear, well-structured C++ program. Specifically, the student will use and design classes and objects in his or her programs.

## **Course Help on Assignments:**

- Ask questions in Discussion Forums in about assignments. This will help secure your success in assignment submissions and your answers. Private messages is not a forum for assignment related questions
- The STEM Success Center, in room 4213, will have CS tutors at various times each day. The STEM Center is also a place on main campus where students without their own computers can do their lab work. The schedule for the STEM Center and its tutors is at: [http://www.psme.foothill.edu/?page\\_id=1555](http://www.psme.foothill.edu/?page_id=1555) Students - Please inquire about *on-line* computer science tutors at STEM

## **Participate in Class Discussions:**

- You are required to post a question or answer at least once a week in Discussion Forum. **4 points for class discussions participation.**
- A student will be dropped for non-participation.

**CS2A Course Rules: These are the rules. Assignments and rules stated in course modules are invalid. For rules of class refer below.**

- Assignment submissions must include source code and output of sample runs of programs. *If output and source code is not submitted then 100% of the points will be cut*
- **Do not submit rar files, screen-shots, jpg files, png files or Image files, bin files, rich text. Windows users - please learn to submit text files and text output files for programs.**
- **Must Submit source program in text form and output in text format ONLY**
- **You are free to attach files in Canvas submission**
- **DO NOT USE RECURSION in ANY OF earlier assignment SUBMISSIONS. Stick to Syllabus and CS 2A material only. CS 2a does not cover recursion until the end, CS 2A does not cover any other advanced features. If you know recursion then well and good, but using them for CS 2A will NOT fetch ANY points. You will get 0 points if you do so. Also stick to modules' material for respective assignments. Do not use exceptions ! we do not cover them in CS 2A.**
- **Again No rar, mobile screen shots, desktop screen shots, bin files, jpeg files or .class files will be accepted for any submission. Such submissions will be not graded and that means 0 points for your assignment submission.**
- Late submission of assignments will **not** be accepted.
- Email submissions of the assignments will **not** be accepted.
- Assignments and all other submissions must be through Canvas**ONLY**
- Please communicate with instructor via Canvas **ONLY**. Do not email instructor directly.
- Assignment will be graded by instructor - **ONLY** after its due date (say three to four days after its due date) -

- Learning to use an IDE for compiling C++ programs is optional. CLI (command line) tools can be used compile your programs.
- Grade scale ie what is A+ A- etc. is based on Canvas grade scale. So Refer to Canvas document for grade scale.
- **You are expected to have a working computer/browser. Manage your resources to help submit assignments and exams in time using your computer. Refer to Syllabus Section if you need a lab to complete assignments/tests. Please contact PSME for lab access.**
- Assignment and exam points will show up as Zero points until instructor grades them. Note this. Also if the submission is not there then Zero points. Please make sure your submissions are readable and executable. Submit source code and output.
- **All communication with instructor ends for this class on Mar 30, 2019, So manage your questions, grading issues before end of class. Canvas site for this course will be closed for students end of quarter. So manage your portal issues before this date.**
- Instructor will not email grade to you. You must use your school portal to look them up.
- **All grades are FINAL No adjustments will be made. Actively manage your study to manage your grade. It is a good idea to constantly manage your progress to help succeed in this programming course.**
- Absolute grading for all assignments and exams. (ie Grading is NOT done on a curve)
- This course is fully online. There are NO face to face meetings. All exams are via Canvas ONLY. All assignments are to be submitted via Canvas ONLY.
- You are expected to be computer literate and must know how to use your computer. This is a programming class in C++, *and not Python. shell. Java.* Please note this.

## Grading

11 assignments, 6 points each, 4 points for class participation, 3 tests, 10 points each. Total 100. Absolute Grading. I do not grade on a Curve. No make-ups for tests/assignments/class participation. One chance ONLY.

Course

Format

To stay on track with deadlines, refer to Syllabus and Modules and Assignments regularly. No login is required during the weekend or on holidays by participants or facilitators. It is your responsibility to complete your assignments on time. The site will be closed at midnight, on the last scheduled day for the course. NO INCOMPLETES are given.

## **Communicating with Instructor**

All course communication happens within the course site. For course questions, contact me through Discussions. Ideally, you should post your questions in the forums so that everyone benefits from the responses.

## **Special Facilities and/or Equipment Needed**

Internet access and web browsing and email agility. Daily login is strongly recommended.

## **Advisory**

Must know math and logic.  
Familiarity with an IDE (Integrated development Environment) or CLI (Command line interface)

## **Expanded Grades**

Your grades are based on programming **lab assignments** (66 points) **three exams** (= 30 points) and **class participation** (4 points)

Absolute Grading Scale

	<b>% needed for</b>		<b>this grade</b>
97		A+	
91		A	
88		A-	
86		B+	
80		B	
78		B-	
75		C+	
67		C	
60		D	
< 60		F	

## Expanded Content

- **Week 1R (MS Windows) - Compiler Set Up**
- **Week 1R (Mac) - Compiler Set Up**
- **Week 1R - Eclipse Set Up**
- **Week 1A - The Programming Experience**
- **Week 1B - (MS Windows) Compiling and Running**
- **Week 1B - (Mac/Xcode) Compiling and Running**
- **Week 1B - (Eclipse) Compiling and Running**
- **Week 2A - Simple C++ Programs**
- **Week 2B - Data Types**
- **Week 3R - Posting Code to Discussions**
- **Week 3A - User Input**
- **Week 3B - Selection**
- **Week 4A - Repetition**
- **Week 5A - Methods**
- **Week 5B - Parameters Passing and Global Variables**
- **Week 6A - Object-Oriented Programming (OOP)**
- **Week 6B - Instance Methods**
- **Week 7B - Interaction of Objects and Methods**
- **Week 8A - Arrays and a Sort Algorithm**
- **Week 8B - Compound Data Types: Arrays in Classes**
- **Week 9A - Search Algorithms and Stack Data Structures**
- **Week 9B - Recursion and a Binary Search Algorithm**

- **Week 10A - Pointers and Dynamic Memory**
- **Week 10B - Older C Style Strings (Char Arrays)**
- **Week 11A/B - Review**

You can access the official course outline of record for all CS courses here:

<http://www.foothill.edu/schedule/catalog.php>

From that page, select **Dept: Computer Science** → **Search**, and from there, select any CS course whose official outline you want to review.

Student learning outcomes for this and other CS courses can be found

[here.](#)