

**Golden West College**  
CS G175 Syllabus  
Spring 2015  
January 31, 2015 – May 31, 2015  
**C++ Programming, section 60167**

**Instructor:** Cristian Racataian

**Office:** HUM 210B

Wednesday: 3:00 – 5:00pm

Thursday: 3:00 – 5:00pm

**Phone:** (714) 892-7711 x 51225

**E-mail:** **Blackboard** (primary)  
cracataian@gwc.cccd.edu (include your full-name, course, section)

Weekdays, I will respond to your email within 24 hrs. Weekends, I will respond as soon as possible on Monday.

While I do have a college email, I would encourage students to use the Blackboard email. If you use the college email you may not get a timely response.

**Course Description**

*This course will cover the fundamentals of software development using the C++ language. The discussions of software development process will include: designing, writing source code, compiling, linking, executing, and debugging. Data types, arithmetic and logical expressions, debugging, looping, branching, modularization, static and dynamic memory allocation, classes and objects will be discussed in lectures and practiced through lab projects. Console applications will be designed and created. This course may be taken 3 times.*

**Prerequisite:** None

**Advisories:** Computer Science G102, Math G030

**Student Learning Outcomes:**

The successful student will be able to:

1. Assess, analyze, and design software solutions for moderately complex business and scientific problems
2. Properly document the solution
3. Write the software code, mathematical formulas/expressions, and algorithms in the C++ language
4. Eliminate coding and logic errors using sophisticated debugging tools
5. Understand and apply basic optimization techniques
6. Break a large software solution into manageable modules
7. Manage static and dynamic memory allocations
8. Interact with input, output devices and files
9. Implement applications using Object Oriented Programming (OOP) paradigms through the use of classes and objects

**Textbook: *Starting Out with C++: Early Objects (8th Edition)***

Tony Gaddis, Judy Walters , Godfrey Muganda

Publisher: Addison-Wesley; 8 edition (2013)

ISBN-10: 013336092x

ISBN-13: 978-0133360929

**Software:** Microsoft Visual C++ Express (free), or any ANSI compliant C++ compiler.

Student free Microsoft software: [www.dreamspark.com](http://www.dreamspark.com)

**Letter Grade:**

A:	90% and above	900 and above points
B:	80-89%	800 – 899 points
C:	70-79%	700 – 799 points
D:	60-69%	600 – 699 points
F:	below 60%	below 600 points

**Course Withdrawal/Drop Policy:**

If you are unable to fulfill the course responsibilities/requirements, **it is your responsibility** to drop the class. If you stop participating in online activities, if you do not complete required course work and do not officially drop the course, you will receive an F.

The instructor can drop the student any time before the withdrawal date due to failure to attend/progress in the class (progressing consists of logging onto Blackboard and doing the homework).

**Attendance:**

Students are expected to participate in all online activities that are assigned.

If you anticipate any changes in work schedules or any activities (vacation, weddings, surgeries, court dates, deaths, etc) that may result in excessive missed work and/or participation, I suggest you consider taking this course at a time you can commit to the entire semester. Every week is important. We cover a lot of information and it is very difficult to catch up and be successful in this class when you fall behind.

**Assignments:**

Log into Blackboard and be ready to participate and learn. This is a great class and through your actions and behaviors, you can ensure to make your experience in the class great and worth your while!

Students are expected to participate in course activities which include discussions, and assignments/activities.

All assignment instructions are located on Blackboard and will be submitted to the instructor through Blackboard upload facility.

**Cheating:**

Cheating will not be tolerated.

Anyone suspected of cheating will be referred to the Dean for appropriate action which can include failure of the assignment, failure of the course, and expulsion from Golden West College.

## Study Sequence for Topics and Assignments:

Week # Date	Study Items	Assignments	Exams
1 1/31, 2/7	Course Introduction Chapter 1		
2 2/9, 2/15	Chapter 2		
3 2/16, 2/22	Chapter 3	Project 1 100 points	
4 2/23, 3/1	Chapter 4		Exam 1 Chapters 1, 2, 3
5 3/2, 3/8	Chapter 5		
6 3/9, 3/15	Chapter 6	Project 2 100 pts.	
7 3/16, 3/22	Chapter 7		Exam 2 Chapters 4, 5
8 3/23, 3/29	Chapter 8		
3/30, 4/5	Spring Recess		
9 4/6, 4/12	Chapter 9	Project 3 100 pts.	
10 4/13, 4/19	Chapter 10		Exam 3 Chapters 6, 7
11 4/20, 4/26	Chapter 11		
12 4/27, 5/3	Chapter 12	Project 4 100 pts	
13 5/4, 5/10	Chapter 13**		Exam 4 Chapters 8, 9
14 5/11, 5/17	Chapter 15**		
15 5/18, 5/24	Appendix E, F, L	Project 5 100 pts	
16 5/25, 5/31	Final Week		Exam 5 Chapters 10, 11, 12
<b>Total Points</b>		<b>500 pts.</b>	<b>500 pts.</b>

\*Project due dates will be posted on Blackboard

\*\* Chapters will have partial coverage.

## **All work submitted must meet college level standards**

### **Late Policy:**

Late assignments **will be accepted** only with deductions of up to 50% of the assignment worth. The actual deduction depends upon the amount of time the assignment is past due. NO SUBMISSION ACCEPTED AFTER 7 DAYS past due date.

### **Communication:**

It is absolutely your responsibility to read and understand what is required of you for this class as outlined in the syllabus and Blackboard postings.

If you do not understand or comprehend instructions, it is your responsibility to contact me so that we can go over the instructions. Blackboard email is the best way to contact me.

### **Important Dates:**

Last Date to add class: 15-FEB-2015

Last Date to drop with a refund: 15-FEB-2015

Last Date to drop without a "W": 15-FEB-2015

Last Date to drop with a "W": 03-MAY-2015

## **STUDENT RESOURCES**

### **Accessibility Center for Education (ACE)**

<http://www.goldenwestcollege.edu/ace/>

### **Golden West College Library:**

<http://www.goldenwestcollege.edu/library/>

### **Golden West College Success Center:**

<http://www.goldenwestcollege.edu/ssc/>