



COP 3331 Object Oriented Design

Spring 2016

Section 001

F 8:00 AM – 10:45 AM

CPR 115

Classroom Lecture

3 credit hours

- Instructor: Dr. Rollins Turner
ENB 343F
turnerr@mail.usf.edu
- Office Hours: MW 11:00 AM – 12:00 PM
OK to drop in any time



Catalog Description

- COP 3331 Object Oriented Software Design (3)
EN ESB
- PR: COP 3514 (Program Design)
- CPR: CDA 3103 (Computer Organization)
- Design of a computer program using an Object Oriented programming language.
- Extension of programming knowledge from a procedural language to an object-oriented language.
- Analysis of program requirements.



Course Objectives/Outcomes

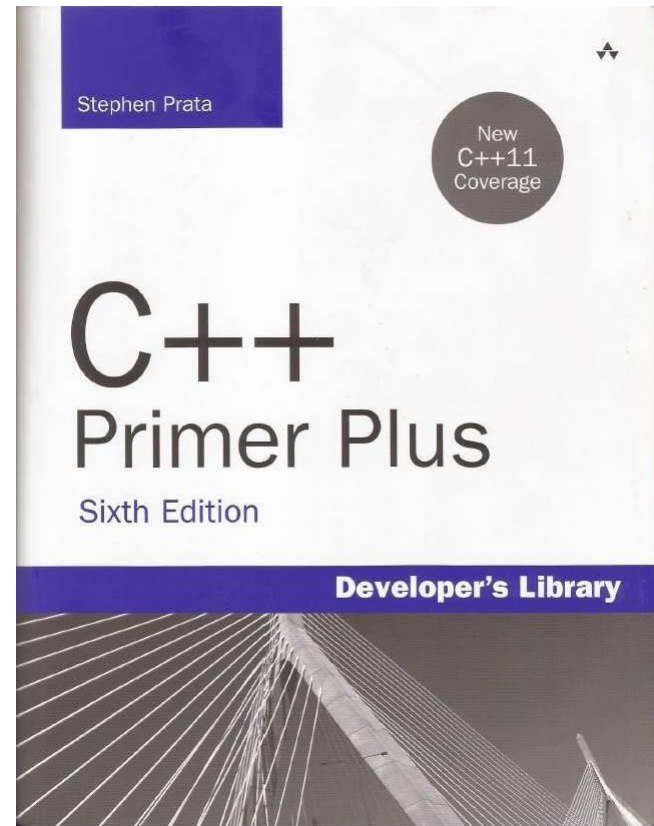
You will be able to:

- Write object oriented programs *of moderate size and complexity* in the ISO Standard C++ programming language.
- Compile, test, and debug C++ console (command line) programs on a PC running Windows and on a networked system running Linux.
- Design a program as a collection of interacting classes.
- Effectively use the principles of object oriented design (abstraction, encapsulation, inheritance, polymorphism).
- Use UML (The Unified Modeling Language) to design object oriented programs for implementation in C++
- Use templates and the C++ Standard Template Library in the design and implementation of C++ programs

Textbook

Recommended

- C++ Primer Plus (Sixth Edition)
- Stephen Prata
- Sams Publishing 2012
- ISBN 0-321-77640-2





Exams and Grading

- Grading:

Projects	40%
Midterm Exam	20%
Final Exam	40%

- Exams will be written in class.
 - Closed book
- Projects will be developed out of class.
 - Use your own computer or on-campus labs.
 - You may work with one other student if you wish.
 - OK to work alone if you prefer.



Exams and Grading

- Exams missed *for a legitimate reason* can and must be made up.
 - Consult me, in advance when possible, to arrange makeup exam.



Letter Grades

- 90 – 100 A
- 80 – 89 B
- 70 – 79 C
- 60 – 69 D
- < 60 F
- No “+” or “-” grades will be issued.
- Numerical average will be rounded to nearest integer.
 - .5 rounded up



University Policies

- Final Exams Policy
- General Attendance Policy
- Religious Days
- Academic Integrity of Students
- Disruption of Academic Process
- Student Academic Grievance Procedures
- Students with Disabilities (Student Responsibilities)
- Students with Disabilities (Instructor Responsibilities)



University Policies - Gender-Based Crimes

USF has a commitment to the safety and well-being of our students. Please be aware that educators must report incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence that come to their attention.

I am required to report such incidents in order for the Office of Student Rights and Responsibilities or the Office of Diversity, Inclusion, and Equal Opportunity to investigate the incident or situation as a possible violation of the USF Sexual Misconduct/Sexual Harassment Policy and provide assistance to the student making the disclosure. If you disclose in class or to me personally, I must report the disclosure and will assist you in accessing available resources.

The Center for Victim Advocacy and Violence Prevention, the Counseling Center and Student Health Services are confidential resources where you can talk about such situations and receive assistance without the incident being reported.

- *Center for Victim Advocacy and Violence Prevention:*
 - (813) 974-5757
 - <http://sa.usf.edu/advocacy>
- *Counseling Center*
 - (813) 974-2831
 - <http://usf.edu/student-affairs/counseling-center>
- *Student Health Services*
 - (813) 974-2331
 - <http://usf.edu/student-affairs/student-health-services>



Academic Calendar

2016	
January 1	New Year's Holiday
January 11	Spring, first day of classes
January 18	Martin Luther King, Jr.
March 14 - 19	USF Spring Break
April 27	Spring, last day of classes
April 28 - 29	Designated reading days
April 30 - May 6	Spring Final Exams
May 1	Spring Final Exams (Distance Learning)
May 7	Spring Commencement, Tampa



Final Exam Schedule

- USF Final Exam Matrix
- OOD final exam will be on Wednesday, May 4, 3:00 PM – 5:00 PM
- In the normal classroom (CPR 115)



Course Policies

- Attendance will not be taken after the first class.
- Attendance will not be a direct factor in grades.
 - But class attendance is highly recommended.
- You may not *sell* notes or tapes of class lectures.
 - OK to give them away!



Course Policies

- Programming projects will be graded.
- You may work with one other student on each project.
 - OK to work alone if you prefer.
- If you work as a pair:
 - One student submits the program.
 - Include both names in Canvas submission comments.
 - Other student submits just a Canvas comment saying who they worked with.
 - Both students are expected to contribute.
 - Both students are expected to understand the program in detail.
 - Both students will get the same grade.



Course Policies

- Projects must be submitted on time.
 - Late projects will incur a penalty of 10 points per hour after the deadline.
- Don't post assignments on the Internet
- Don't ask for help on Internet forums.



Course Policies

- It is OK to discuss projects with other students, but *outright copying is not acceptable*.
 - Don't copy anyone else's work.
 - Don't let anyone copy your work.
 - Penalty:
 - 0 for the project.
 - Reduction of one letter grade for the course.



Class Web Site

- Slides from class presentations will be available on the class web site:

http://www.cse.usf.edu/~turnerr/Object_Oriented_Design/

- Also on class web site:
 - Examples
 - Project solutions
- *Don't expect all material covered in class to be on the class web site.*



Communications

- Canvas will be used for project submissions.
 - <https://my.usf.edu>
 - Grades posted there also.
 - Be sure you can log in and can find this class among your courses.

- USF email will be used for any last-minute announcements.
 - Be sure you can receive messages.
 - Don't let backlog exceed your quota.
 - Check your email regularly.
 - Welcome message will be sent out as a test.