Instructor: Natalia (Natasha) V. Anderson  
Office: CS-401  
Phone: (657) 278-3700 Computer Science Office  
E-mail: nvanderson@fullerton.edu  
Email is the best way to contact me. Please put CPSC-121 in the subject line.  
Class web Site: Campus Portal/Titanium  
Office Hours: Tuesday 12:00 – 1:00 pm and by appointment  
Time/Location: Saturday8:00–11:50am,CS104  
Prerequisite: CPSC-120 or passing score on the Computer Placement Exam.  

Course Description: Introduction to Computers and Programming, C++, parts of a program, variables, operators, cin and cout objects, formatting output, type casting, switches, menu driven programs, conditional operators, enumerated data types, looping, if, while, do while, arrays, parallel arrays, vectors. Functions, void and returning value, local, global, and static variables, default arguments, reference variables, overloading functions, classes, ADT, OOP, constructors, destructors, structures, arrays of objects, recursion. Pointers, C-Strings, library functions for working with C-Strings, file and I/O Operations, polymorphism and virtual member functions, exceptions, functions and class templates.

Student Learning Outcomes: The goal of this course is to learn the fundamental concepts of object-oriented programming. Upon successful completion of this course, you will be able to design and implement Abstract Data Types using C++ classes.

Grading:  
Attendance 5%  
Participation 5%  
“Ticket at the Door” (your study notes) 5%  
Video Tutorials 15%  
Quizzes 10%  
Individual Projects 20%  
Midterm 20%  
Final 20%  
The final letter grade shall be strictly assigned according to the following ranges:

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Plus and minus grading is not used when determining final grades. No makeup exams. No makeup projects.

**Individual Projects:** Each project will involve designing, implementing, and testing a substantial program from start to finish. All projects must be coded and will be tested using Microsoft Visual Studio. The students will present some of their projects to the entire class for evaluation and feedback.

**Video Tutorials:** The class material will be delivered during video tutorials with automatic grade reporting. To be successful, students must watch the videos before attending the class in which they will apply the knowledge. You must watch each video 100% in order to receive a credit and answer questions during the video. Take notes, your notes is your “Ticket in the Door”. It will be collected at the beginning of class; late work will not be accepted. Your notes will be used as part of your grade. Students should also write down any questions that arise while watching the videos and there will be time each class period dedicated to answering questions.

**Participation:** These will be participation exercises that mainly test your understanding of recent concepts and reinforce what you should already know. Your participation will count toward your grade.

**Attendance:** Your attendance is mandatory. Your attendance will be recorded (twice) during class time and also used as part of your grade.

**Quizzes:** All quizzes must be taken during lab time as an opportunity to think through the problems and identify areas where you need further review to achieve a solid understanding of the material. Solutions to the practice quiz will not be provided. You will need to review your incorrect answers and find a reason for each error. After that a similar set of questions will be provided for another opportunity.

**Exams:** All exams will be closed book, closed notes. Electronic code or the internet will not be allowed. Midterm will be in October and the exact date will be announced 2 weeks in advance. The final exam will be comprehensive. Final Exam – Saturday December 12th 2017, time: 8:00-9:50 am, location: CS-104.

**Student Responsibilities:** It’s important part of your learning outcome to code all projects from start to finish. At times it will be difficult, but you need to look for help, there are a lot of resources available (refer to - *how to get help* document on Titanium). The only excuse for a missed class is a serious illness or other extraordinary circumstances. Permissions to take exams on other dates than scheduled will not be given, except for extreme medical emergencies. Please contact me in advance if you have any issues with exam dates.

If you wish to drop this course, it is entirely your responsibility to complete all the necessary paperwork and follow the deadlines.

Cell phones are not acceptable in class except class attendance scanning.

**Collaboration:**
• You may help each other understand the assignment and brainstorm general solutions, but each student must develop and submit their own distinct work.
• You may give each other technical support, for instance troubleshooting installing Visual Studio.
• You must develop your own solution to the problem, type in your own source code and test your program.
• You should be able to explain any part of your submission, and why you wrote what you did.

Given these requirements, any submissions with identical excerpts, or excerpts that are identical up to superficial rearrangements, will be considered highly suspect of plagiarism.

Special Needs: Please inform the instructor during the first week of classes about any disability or special needs that you have that may require specific arrangements related to attending the class sessions, carrying out class assignments, or writing papers or examinations. According to the California State University Policy, students with disabilities need to document their disabilities at the Disabled Student Services Office.

Academic Dishonesty: Original work is expected from every student. Any copying of assignments will result in zeros being assigned to each person. Any cheating on exams will result in course grades of F for anyone involved.

It is your responsibility to be aware of and follow the spirit of CSU Fullerton’s academic honesty policy which can be found at «http://www.fullerton.edu/senate/publications_policiestations/resolutions/ups/UPS%20300/UP S%20300.021.pdf». By submitting work for evaluation, you acknowledge that you have adhered to the spirit of the university’s academic honesty policy and that your submission is an original work by you unless otherwise directed to work in groups. Failure to follow the academic honesty policy will result in a severely negative evaluation of the work in question and may result in involving the Department Chair and the Judicial Affairs office to seek a disciplinary remedy.

Emergency Procedures: For your own safety and the safety of others, each student is expected to read and understand the guidelines published at «http://prepare.fullerton.edu/campuspreparedness/». Should an emergency occur, follow the instructions given to you by faculty, staff, and public safety officials. An emergency information recording is available by calling the Campus Operation and Emergency Closure line at 657-278-4444.

Disclaimer: I reserve the right to make any changes to the syllabus as I deem necessary throughout the course.