De Anza College Winter 2015 Revised 1/5/2015

CIS 22A - Beginning Programming Methodologies in C++
Course CRN 32266-CIS-022A-63Y

Instructor Ron Bates
Meeting Times MW: 6:00 pm – 7:50 pm ATC 311 (In person class time)
Online instructor access Wed 8:15-9:30 pm
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Email batesron@fhda.edu – best way to reach me

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. See De Anza Course outline http://ecms.deanza.edu/outlineprogresspublic.html?catalogID=12394

Text Starting Out with C++ from Control Structures to Objects, 8th edition, by Gaddis, 2015, ISBN-10 0133769399 or ISBN-13 9780133769395, Addison-Wesley
eText Rental: CourseSmart Website: http://www.coursesmart.com/0133769399
Text Companion Website: http://wps.pearsoned.com/ecs_gaddis_sowcpp_cs_8/
Class Website: http://catalyst.deanza.edu
Requisites: (Students may receive credit for either {CIS 22A and 22B} or {CIS 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.

Accessing Code Lab:

Go to http://www.tcgo1.com or http://www.tcgo2.com

Select Register for CodeLab; Choose:" I am a student…"

See instructor for Section Access Code

Student Learning Outcomes

Upon the completion of this course, students will be able to:

- 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

Attendance

Regular and punctual attendance is expected. If you miss a class, you are still responsible for all announcements and/or exercises given out during the class. You may see me for any notes or handouts that may have been given by me during class time.

- Regular attendance and participation can have a positive effect on your grade

- Note that all students in attendances must be registered for the class. Auditing is only allowed for those who are repeating the class.

Once enrolled, if you wish to drop the class, it is *your responsibility to drop the class before the last day to drop.* Otherwise, an appropriate grade will be assigned at the end of the quarter

Lab Time/Online Access
This is an online hybrid class. All tests and assignments must be handled through De Anza's Catalyst program. You may use computers in the classroom, computers in room ATC 311, room ATC 203 or you may you're your own laptop/computer with Wi-Fi or Internet access.

Coding Software
Projects and lab assignments will be done using C++. Microsoft's Visual Studio is recommended for coding development. Visual Studio is loaded on the classroom computers and on lab machines. A free student version can be downloaded from Microsoft. For links to sites for Visual Studio and other IDEs access the text companion website listed above.

Cheating
Discussion and exchange of ideas on lab assignments are strongly encouraged. However, each person is expected to complete his/her own computer work.
- Identical solutions (even with variable name changes and/or function name changes) will be given a zero grade
- Copying or cheating during an exam will result in a zero being assigned to the test grade for both parties

Lab Assignments
There are 8 lab assignments, each worth 15 points
- The lab due dates are shown in the class calendar and posted on the Catalyst System
- You must turn in softcopy of each assignment *by the due date specified in the Catalyst System. Do not email assignments to the instructor.*
- Partial credit will be given for incomplete labs
- Labs turned in after the due date will receive a 10% *deduction* for each class day they are late

Lab Submission Format
Assignments that do not follow these instructions will receive a penalty of 2 points.
Each assignment will begin with a documentation block with the following information:

```
// CIS 22A
// Lab Number and one line description of the lab
// Name:_____
```

Assignments will be graded for Correctness, Structure, Style, Clarity and Documentation.

Programs created for labs must have
1. Program Listing – This should be a .txt file format.
2. Program Output. You are expected to adequately test your program. When test data is specified, it is required. Output generated by your program should be submitted to Catalyst as a .jpg file if the output is only console output or .txt file if the program generates file output. Note that some lab assignments may contain multiple programs and/or may also require a work sheet to be turned in.

Exams There a total of eight exams: Exams1-4, Midterm Exam, and a Final Exam

- Exams cover reading, labs and information covered in lectures
- All exams are online using the Catalyst system. Dates for exams will be listed on the Catalyst system
- All exams are open book, open notes
- Midterm and Final exams must be taken in class
- Make up for the midterm will be allowed only with proof of emergency reasons or prior approval. Prior approval must be obtained at least the week before the scheduled exam, and the makeup exam will be given *before* the scheduled exam. The final exam must be taken during the scheduled time, there is no early or late final exam taking

Extra Credit Extra credit assignments may be offered during the course.

Grading
All students will be graded. You will receive a letter grade unless you elect to take the class for a pass/fail. Note that pass/fail elections must be executed by January 30th. Access "My Portal" for details.

Grading is based on points:

Labs:	80 points (10pts * 8)
CodeLab	40 Points
Exam1	15 points
Exam2	15 points
Participation	10 points
Midterm Exam	90 points
Exam3	15 points
Exam4	15 points
Final Exam	120 points
Total:	**400 points**

Grading scale

A+: 388-400	B+: 340-359	C+: 308-319	D : 252-267
A :372-387	B : 336-339	C : 280-307	D- : 240-251
A- : 360-371	B- :320-335	D+: 268-279	F : <240