INSTRUCTOR: Cynthia Lee-Klawender
                   (http://www.deanza.edu/faculty/leeklawendercynthia/)
OFFICE HOURS, OFFICE: Mondays and Wednesdays 12:50 - 1:15 PM (in F41C)
          and 3:25 - 3:50 (in F41C or AT203) Tuesdays and Thursdays 1:30-2:20
          PM (in F41C or AT203), or by appointment in F41C (in the L quad
          between L4 & L6 buildings)
PHONE & EMAIL: (408) 864-8609, E-mail for questions or help:
          LeeKlawenderCynthia@deanza.edu
ADVISORY: English Writing 211 and Reading 211 (or Language Arts 211), or
          English as a Second Language 272 and 273; Mathematics 114 or
          equivalent.
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. Designed primarily
          for computer science and related transfer majors.
STUDENT LEARNING OUTCOMES:
   • 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.
TEXTBOOK: *Starting Out with C++: From Control Structures through Objects* by
          Tony Gaddis. 8th EDITION (ISBN-13: 978-0133769395 ISBN-10:
          0133769399)
LECTURE NOTES: Will be provided online on Catalyst

CLASS NOTES: Many of the class exercise answers and announcements will be
          posted in Catalyst (https://catalyst.deanza.edu) on a week-by-week basis.
COMPUTER LAB: You may use our computer lab or your own (or another)
          computer and compiler. If you don't use our computer lab, you need to
          have a C++ compiler in order to do homework assignments. If you're
          enrolled in this class, you will automatically have an account in our
          classroom and AT203 Open Computer Lab (if you're adding, add online
          in Admissions office, wait about 20 min. before using the open lab).
          Bring a flash drive to the Computer Lab to back up your programs or
          remember to email to yourself.

COURSE OUTLINE (subject to change): This is a hybrid class. Meet in person on
          Mondays and Wednesdays, 1:30-3:20 PM. The rest will be presented
          in Catalyst. The instructor will be online Fridays, 1:30-2:50 PM.

	Dates	Topics	Resources
Week 1	Sep. 21 - 27	Computer Hardware & Languages, Computer Problem Solving	Catalyst Topic 1, Textbk. Ch. 1

Week 2	Sep. 28 - Oct. 4	Intro. to C++	Catalyst Topic 2, Textbk Ch. 2
Week 3	Oct. 5 - 11	Expressions and Interactivity	Catalyst Topic 3, Textbk Ch. 3
Week 4	Oct. 12 - 18	Making Decisions (if, logical ops)	Catalyst Topic 4, Textbk Ch. 4
Week 5	Oct. 19 - 25	**Test 1** *switch* statement ++, -- operators, *while* loops	Catalyst Topic 4, Textbk Ch. 4 Catalyst Topic 5, Textbk Ch. 5
Week 6	Oct. 26 - Nov. 1	Loops (*do-while* loops, *for* loops)	Catalyst Topic 5, Textbk Ch. 5
Week 7	Nov. 2 - 8	Nested Loops, Files	Catalyst Topic 5, Textbk Ch. 5
Week 8	Nov. 9 - 15	*HOLIDAY Nov. 9* Functions	Catalyst Topic 6, Textbk Ch. 6
Week 9	Nov. 16 - 22	**Test 2** Functions	Catalyst Topic 6, Textbk Ch. 6
Week 10	Nov. 23 - 29	One-dimensional Arrays *HOLIDAYS Nov. 26 - 29*	Catalyst Topic 7, Textbk Ch. 7
Week 11	Nov. 30 - Dec. 6	Linear Search, Selection Sort Review for the Final Exam	Catalyst Topic 8, Textbk Ch. 8.1, 8.3
Week 12	Dec. 7 - 11	**FINAL EXAM** Wed., Dec. 9 at 1:45-3:45 p.m.	Comprehensive

EVALUATION: Homework Assign. (6)   24% (Each assign. weight= 4%)
           Participation   15% (inc. CodeLab+lab exercises)
           Quizzes   8% (Best 4 out of 6 count)
           Tests (2)   30% (Each test weight= 15%)
           Final Exam   23%
                           100%

MAKE-UP TESTS: NO MAKE-UP TESTS WILL BE GIVEN! Please notify the
        instructor ASAP if you know ahead of time you will be missing a test.
EXTRA CREDIT: Maximum of 5 extra credit projects may be counted! If the
        project is other than given with the lab assignments, it must be approved
        by the instructor before they are attempted or it may not be accepted.
        This will be discussed later in the semester. The extra credit projects are
        due the last day of the quarter (June 26), and *must include the source*
        file(s) and **output**. (Note: Extra credit will only be counted if the
        student is receiving less than an A+.)

WITHDRAWING FROM CLASS: I will not automatically drop anyone from class, even if you stop attending classes. If you wish to discontinue the class, you must go the Admissions Office and turn in a signed drop card or you may receive an 'F' in the class.

PROGRAMMING HOMEWORK GRADING: Each will be graded as follows:

34 points:	Does the program correctly & completely solve the problem?
8 points:	Is the listing <u>commented & indented</u>? Will I understand what the program is doing? Is the program efficient?
<u>8 points</u>:	ON TIME! (1 point deducted starting day after due date + every other day late--CAN'T TURN IN 3 WEEKS after due date!)

50 points possible (for each programming assignment)

Program Designs of these Assignments may be submitted for EXTRA CREDIT but have STRICT DUE DATES!!!
NOTE: NOTHING WILL BE ACCEPTED AFTER **Fri., Dec. 11, 11:59 PM**!

GRADING BREAKDOWN (adding each score/max-points * weight):

A+		Total Percent >=	97.0
A	90.5	<= Total %<	97.0
A-	87.5	<= Total %<	90.5
B+	84.5	<= Total % <	87.5
B	80.5	<= Total % <	84.5
B-	77.5	<= Total% <	80.5
C+	74.5	<= Total% <	77.5
C	69.5	<= Total% <	74.5
D+	65.5	<= Total% <	69.5
D	60.5	<= Total% <	65.5
D-	57.5	<= Total% <	60.5
F	Total Percent <		57.5

PARTICIPATION DETAILS:
- Lab exercises & participation will be 10% of your total %
- CodeLab exercises will be 5% of your total % (login information and exercises to do are in Catalyst)