

CIS 022A - 03Y
(CRN 32250)

Winter, 2015

BEGINNING PROGRAMMING METHODOLOGIES IN C++

INSTRUCTOR: Hellen Pacheco

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CLASS HOURS: MW 9:30 a.m. – 11:20 a.m. (AT 205)
W 11:30 a.m. – 12:45 a.m. (online)

OFFICE HOUR: M 11:30 a.m. – 12:30 a.m (computer lab)

FINAL: Tuesday, March 24 at 9:15-11:15 a.m.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 114 or equivalent.
(Formerly Computer Information Systems 71A.)

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 Outcome (1): *Design solutions for introductory level problems using appropriate design methodology incorporating elementary programming constructs.*

Student Learning Outcome (2): *Create algorithms, code, document, debug, and test introductory level C++ programs.*

Student Learning Outcome (3): *Read, analyze and explain introductory level C++ programs.*

Attendance:

You are expected to attend all class sessions. Lectures will be the main source of information for both labs and exams. You will **not** be automatically dropped if you do not come to class. Thus, be sure to withdraw officially by Feb 27, to avoid an 'F' grade on your transcript.

Required Text:

Starting Out with C++: From Control Structures through Objects, 8th Edition by *Gaddis*
(may use 7th edition)

Compiler:

CodeBlocks Compiler may be downloaded for free from <http://www.codeblocks.org/>
Course materials are available through <https://catalyst.deanza.edu>.

Need help? CIS has its own tutorial program. Sign up in the Computer Lab.

Assessment:

Homework and classwork assignments	20%
Pop Quizzes Quizzes (drop lowest)	10%
Labs and Lab Quizzes (6)	30%
Tests (Feb 11 and Feb 25 , drop lowest)	20%
Final	20%

Course letter grades will be assigned:

A+	A	A-	B+	B	B-	C+	C	D	F
99+%	92-98%	90-91%	88-89%	82-87%	80-81%	78-79%	70-78%	60-69%	<60%

Where percentages are rounded to the nearest whole number.

Lab assignments will be graded on correctness, structure, style, clarity and documentation.

All Labs must be submitted through Catalyst and will be accepted for up to one week after the due date with a 5 point penalty. After the one-week limit the assignment will receive no credit. There will be a follow-up quiz, which will count towards the lab grade.

Homework for the week is posted on Monday and is due on Saturday. Late homework will be accepted until Saturday of the following week for half credit.

Tests and quizzes will be on Catalyst but must be taken in class. Tests are scheduled ahead of time, but quizzes can happen at any time. There are no make-ups for tests or quizzes. Since I will drop the lowest score, if you miss a test or quiz, that will be the one to be dropped.

Academic Honesty:

All programming assignments are expected to be your own original code. **Never give a soft copy or a hard copy of any lab assignment to another classmate. Any duplicate assignments submitted will receive zero points without regard to who originated and who copied.**

Calendar and Course Outline:

Refer to Catalyst: <https://catalyst.deanza.edu>

Important Dates

Monday, Jan. 19 :: Last day to [drop](#) a class with no record of grade. Drop date is enforced.

Friday, Feb. 27 :: Last day to [drop](#) with a "W." Withdraw date is enforced.

Holidays

Monday, Jan. 19 :: Holiday: Observance of Martin Luther King's Birthday

Monday, Feb. 16 :: Holiday: Observance of George Washington's Birthday

Motto:

“You learn to play tennis by playing tennis. You learn to program by writing programs.”