

CIS 22A: Beginning Programming Methodologies in C++

Course Info: CIS-022A-44Z CRM: 42528
Quarter/Year: Spring 2022
Lecture: 06:00PM - 06:50PM T-Th
<https://fhda-edu.zoom.us/j/92208122298>

Online Office Hours: 07:00PM - 07:50PM T
<https://fhda-edu.zoom.us/j/95324918894>

Instructor: **Hoang M. Nguyen**
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Class website: <https://deanza.instructure.com/>
Prerequisites: None
Advisory: EWRT 211 and READ 211,
or ESL 272 and 273; MATH 114 or equivalent.

Course Description:

The fundamental constructs of programming and introduces the concept of object-oriented programming is covered in the course. 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.

<https://www.deanza.edu/catalog/courses/outline.html?cid=CIS22A>

Student Learning Outcomes: Upon completion of the class, the 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.

Required Textbook: **CIS 22A: Beginning Programming Methodologies in C++**
zyBook ISBN: 978-1-394-10219-8
Note: it is integrated and available inside Canvas module.

Grading Policy:

- Final Exam: 25%
- Midterm: 20%
- Programs: 45%
- Exercises: 10%

Grade's Scale:

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%

Important notes:

- The final exam will be comprehensive with the emphasis on topics covered after the midterm exam.
- Programming assignments will be graded on whether they work as required, documentation, program structure, and the completeness of testing.
- Students are required to attend the online lecture and encouraged to make use of office hours
- All assignments and class materials will be posted online at the school's Canvas website.

Tentative Course Outline

Week	Topics (Chapters)	Work Due
1 (4/7)	Introduction to C++ (Ch 1) Variable / Assignments (Ch 2)	
2 (4/12)	Branches (Ch 3) Loops (Ch 4)	
3 (4/19)	User-defined functions (Ch 5)	
4 (4/26)	Arrays / Vectors (Ch 6)	
5 (5/3)	Streams (Ch 9) Review	Pgm1 Due
6 (5/10)	Midterm Objects and Classes (Ch 7)	
7 (5/17)	Objects and Classes (Cont'd) Pointers (Ch 8)	
8 (5/24)	Pointers (Cont'd)	
9 (5/31) (6/2)	More on Class (Ch 7)	Pgm2 Due
10 (6/7)	Selected Topics	
11 (6/14)	Review	
12 (6/21)	Final Exam	Pgm3 Due

Important links:

- Resources On Campus:
 - [Student Success Center \(deanza.edu\)](http://deanza.edu/student-success-center)
 - [EOPS](http://deanza.edu/eops)
 - [Counseling](http://deanza.edu/counseling)
- [Academic Integrity \(deanza.edu\)](http://deanza.edu/academic-integrity)
- [Mutual Respect Policy](http://deanza.edu/mutual-respect-policy)
- [Emergency Funds Application \(deanza.edu\)](http://deanza.edu/emergency-funds-application)
- [Disability Support Programs and Services Division \(deanza.edu\)](http://deanza.edu/disability-support-programs-and-services-division)
- [Academic calendar](http://deanza.edu/academic-calendar)
- [Final Exam Schedule \(deanza.edu\)](http://deanza.edu/final-exam-schedule)