CIS 22A: Beginning Programming Methodologies in C++

Course Info: CIS-022A-42Z   CRN: 12984
Quarter/Year   Summer 2022
Lecture: 06:00PM - 07:50PM   Thu
                        https://fhda-edu.zoom.us/j/93185485291

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: this 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.
- All assignments and class materials will be posted online at the school's Canvas website.

Tentative Course Outline

Week	Topics (Chapters)	Work Due
1	Introduction to C++ (Ch 1) Variable / Assignments (Ch 2) Branches (Ch 3)	
2	Loops (Ch 4) User-defined functions (Ch 5)	
3	Arrays / Vectors (Ch 6) Pointers (Ch 8)	**Pgm1 Due**
4	**Midterm Exam**	
5	Objects and Classes (Ch 7)	**Pgm2 Due**
6	**Final Exam**	**Pgm3 Due**

Important links:
- Resources On Campus:
  - Student Success Center (deanza.edu)
  - EOPS
  - Counseling
- Academic Integrity (deanza.edu)
- Mutual Respect Policy
- Emergency Funds Application (deanza.edu)
- Disability Support Programs and Services Division (deanza.edu)
- Academic calendar
- Final Exam Schedule (deanza.edu)