CIS 22B Intermediate Programming Methodologies in C++

Credit: 4.5 units

Instructor: Ed Ahrens, ahrensedward@fhda.edu

Description:

A systematic approach to the design, construction, and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques. Strings, multidimensional arrays, structures, and classes. Pointers: their use in arrays, parameters, and dynamic allocation. Introduction to linked lists.

Student Learning Outcomes:

At successful completion of the course students should be able to:

- Read, analyze and explain intermediate level C++ programs.
- Design solutions for intermediate level problems using appropriate design methodology incorporating intermediate programming constructs.
- Create algorithms, code, document, debug, and test intermediate level C++ programs.

Text: zyBook ISBN: 978-1-394-02619-7 This is an interactive e-text; link provided in Canvas

Working Together: Working together on assignments is permitted. However, each person is expected to complete his/her own computer work. Identical work may receive a zero grade.

Scholarly Conduct: Please note, the DeAnza College Schedule, in the section titled "Academic Integrity," states that the submission of work which is not the product of a student's personal effort, or work which in some way circumvents the given rules and regulations, will not be tolerated. Any infraction of Academic Integrity will automatically result in a zero grade for the work and may result in a failing grade for the course.

Advisory Preparation:

Successful completion of the following:
CIS 22A, or equivalent

Policies:

1. Students may arrange for a P/NP option in Admissions and Registration Office
2. A 10% penalty will apply for late labs
3. Make up exams may only be scheduled in advance, and only in exceptional circumstances.
4. **I will not drop you!** It is up to you to initiate the drop process.

Exams: Exams are multiple choice, fill in the blanks, T/F and/or short programming exercises. No use of external help other than the e-text and personal notes. That is, no use of online resources, proxies or personal assistance. Exams are administered through Canvas and are timed events.

Final grade:

A+	98% through 100%
A	92% through 97%
A-	90% or 91%
B+	88% or 89%
B	82% through 87%
B-	80% or 81%
C+	78% or 79%
C	70% through 77%
C-	is not given
D+	68% or 69%
D	62% through 67%
D-	60% or 61%
F+	is not given
F	59% or less
F-	is not given

Labs are submitted electronically, through Canvas, due by 11:59 pm on the day assigned. See the class lecture schedule on Canvas. Late labs lose 10%. Any submittal past the due date and time is late, no exceptions.