

**CIS 22B Intermediate Programming Methodologies in C++  
Winter 2025  
CIS 22B 02Z 38067  
TTh 11:30 – 1:20**

**Credit:** 4.5 units

**Instructor:** Ed Ahrens, [ahrensward@fhda.edu](mailto:ahrensward@fhda.edu)

**Advisory Preparation:**

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

**Text:**

zyBook ISBN: 979-8-203-94840-3 This is an interactive e-text; link provided in Canvas

**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.

**Office Hours, held in Pronto:**

Pronto hours are MW 12:30 – 1:30. Access to Pronto is through Canvas.

**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.

**Attendance:**

I do not take attendance; however, I do monitor your logins to Canvas and to zyBooks. **I will not drop you without attempting to contact you first.** You need to be active in the class, attending lectures, completing assignments and zyBooks participation and challenge work, or risk being dropped due to lack of progress. You are responsible for all material covered in lectures and in readings.

**Student Responsibilities:**

You are responsible for all material covered in class regardless of attendance. This includes all assigned readings, Participation and Challenge activities and assigned labs. Use of the lecture recordings are insufficient to meet this requirement, and their availability is not guaranteed.

**Accommodations:**

You must work with DSS/DSPPS to request accommodation. I'm able to meet most requests.

**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. No use of AI is allowed.

### **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.

### **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 without attempting to contact you first.** The only exception is for non-attendance which causes a drop within the first week of the start of lectures.

### **Evaluation, refer to the Lecture and Lab Schedule in Canvas:**

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. The final exam is scheduled for the last lecture day, Thursday, August 8 during the regularly scheduled lecture.

zyBook Participation and Challenge activities are graded by the ebook application and then grades are moved to Canvas.

Labs are graded by compilation and are measured against the individual lab requirements. It is not sufficient to merely provide the correct output, you will need to utilize the specific techniques taught in lecture and reading. **No points are given for labs which do not compile; i.e. labs with syntax errors will not receive points.** You generally have until the subsequent lab is due to correct errors in your current work with no penalties. Remember, late labs always lose points.

### **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.**