

CIS 22A – Beginning Programming Methodologies in C++ (42524)

Instructor	Dr. May Lin
Office Hour	Tuesday 5:00-6:00pm via Zoom (zoom link in canvas calendar)
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Textbook

CIS 22A: Beginning Programming Methodologies in C++ (Zybooks)

Student Learning Outcome

- 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.

Course Topics

Upon completion of the course, students will have learned the following concepts:

- Introduction to Computers and C++ Programming
- Expressions
- Branches
- Loops
- Functions
- Streams
- Arrays
- Searching and Sorting
- Vectors

Attendance

To ensure attendance in an asynchronous online class, students are required to regularly engage with the course materials and complete assigned activities by their respective due dates. This may include watching pre-recorded lectures, completing online quizzes or assignments, or participating in online discussion forums. Failure to engage with the course materials or complete assigned activities by the specified deadlines may result in an absence. **It is important that you log in to Canvas and complete the first lab assignment on Canvas by 11:59 pm on Sunday of the first week of the quarter. Those who do not complete the assignment will be dropped from the class per department policy on course attendance.** Once you've enrolled in the class, if you wish to drop the class, it is *your responsibility to drop the class before the last day to drop it.* Otherwise, an appropriate grade will be assigned at the end of the quarter.

Scholarly conduct

Discussion and exchange of ideas on lab assignments are strongly encouraged. However:

- Each person is expected to complete his/her own original work. Original work means it must not be copied in whole or in part from another person's work, or from an online source or a printed source.
- Please do not post your assignments online anywhere. If someone saw your work online and copied it to turn it in, then even if you don't know about it, you are automatically counted as part of the cheating party.
- Identical or very similar solutions will be given a zero grade.
- Copying or cheating during an exam will result in a zero being assigned to the test grade to all parties involved.

The 4 components of regular classwork

1. Course material

There are 10 modules of class material

- Each module contains class notes or short videos.
- Each video has one or two quizzes. 100 points on completion of all class videos and video quizzes.

2. Zybooks Reading Assignment

There will be 10 zybooks reading assignments, worth 5 points each. The practice exercises demonstrate the concepts covered in the lecture notes. Some of the practice assignments will be required and will be graded on completion.

3. Weekly Quizzes

Each week has a quiz consisting of multiple choices and true/false questions regarding the course materials. You will need to finish the weekly quiz in order to move forward to the next module.

4. Lab Assignments

There will be 10 lab assignments, worth 10 points each.

- Assignments are submitted on Canvas.
- You must submit an assignment by its due time/date to be considered on time. Partial credit can be given for incomplete/attempted assignments.
- If you cannot submit an assignment on time, then:
 - Labs submitted within 1 day late of the deadline will receive a 20% reduction in score
 - Labs will be accepted up to 1 week after the submission deadline. Within 1-7 days late, assignments will receive a 50% reduction in score.
- No assignments will be accepted or given credit for 1 week or more after the submission deadline.

Exams

There are 2 exams: 1 midterm and 1 final.

- All exams are on Canvas.
- The schedule for exams are TBA .
- Exams are open book/open note.
- You must pass the final exam (60% or better) in order to pass the class.

Grading

Grading is based on the percentage of the total points obtained:

Lab assignments: 100 points (10 labs x 10 points per lab)

Weekly Quizzes: 100 points (10 quizzes x 10 points per quiz)

zybooks assignments: 100 points (10 module exercises x 10 points, graded on completion)

Class videos: 100 points (graded on completion of all class videos.)

Midterm: 100 points

Final: 100 points

Total: 600 points

A+: 97-100%

B+: 87-89%

C+: 77-79%

D+: 67-69%

A : 93-96%

B : 83-86%

C : 70-76%

D : 60-66%

A- : 90-92%

B- : 80-82%

F : 0-59%