CPSC 4970

C++ Programming Course Syllabus

Course Description

The C++ programming language. Procedural programming in C++, including basic syntax, control flow, decision-making, loops, functions, file input/output, multidimensional arrays, and pointers. Object-oriented design and programming using C++, including structured data, classes, inheritance, and polymorphism. Templates, standard template library, and exception handling.

Course Objectives

- Understand the form and structure of C++ programming language
- Analyze a problem and construct a C++ program to solve it
- Develop a working knowledge of the concepts of object-oriented programming
- Able to implement object-oriented principles such as classes and inheritance using C++

Prerequisites

Students should have completed CPSC-1220: Introduction to Computer Science II.

Contact Information

Instructor

Instructor: Dr. Tina Tian

Email: tina.tian@auburn.edu

Office Hours: Thursday 2:00 – 4:00 PM Central Time and Friday 3:00 – 4:00 PM Central Time

Canvas Information

Canvas is where course content, grades, and communication will reside for this course.

- auburn.instructure.com
- Canvas-related issues, you can contact Biggio.
    - 334-844-5181
    - biggiotech@auburn.edu

    - Select the question mark (?) to the left side of the page and select "Report a Problem."

- For computer-related technical support, contact the IT Service Desk.

    - (334) 844-4944
    - itservicedesk@auburn.edu

Textbook & Reading Materials

Optional Textbook: Starting Out with C++ from Control Structures to Objects, 10th edition, Tony Gaddis. ISBN-13: 9780137450626.

Course Grading

The final grade will be based on the successful completion of the programming assignments. There will not be any exams in this course. Late assignments will have points deducted at a penalty of 10% for each day that it is late. The assignments will **NOT** be accepted five days after the due date.

This course uses the default grading scheme on Canvas.

Letter Grade	**Percentage**
A	100% to 90%
B	< 90% to 80%
C	< 80% to 73%
D	< 73% to 60%
F	< 60% to 0%

Software and Computing Resources

Windows: Visual Studio Community https://visualstudio.microsoft.com/vs/communityLinks to an external site.

Mac OS: Xcode https://developer.apple.com/xcode/5Links to an external site.

Late Work Policy

Late assignments have points deducted. A penalty of 10% is applied for each day that is late. Assignments are not accepted five days after the due date.

Please note that an exception may apply to *Homework 7* (the final assignment). Specific details regarding the late work policy for this assignment will be provided in the announcements.

Assignment Policy

All work turned in under your name must be your own. Programming assignments must be your own work. No credit will be given for an assignment that is copied – in part or in total – from another person. Two violations of this policy will result in a failing grade for the course.

Copyright

Copyright in educational materials prepared by the University faculty member is owned by the faculty member and may not be shared without his or her permission.

Academic Integrity

All portions of the Auburn University Student Academic Honesty code (Title XII) found in the Student Policy eHandbook at http://www.auburn.edu/student_info/student_policiesLinks to an external site. will apply to this class. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee.

Accessibility & Accommodations

Students who need accommodations are asked to electronically submit their approved accommodations through AU Access and to make an individual appointment with the instructor during the first week of classes – or as soon as possible if accommodations are needed immediately. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 844-2096 (V/TT).

Course Summary:

Date	Details
Sun May 19, 2024	Assignment Module 1: Homework Assignment 1

Date	Details
Sun May 26, 2024	Assignment Module 2: Homework Assignment 2
Sun Jun 2, 2024	Assignment Module 3: Homework Assignment 3
Sun Jun 9, 2024	Assignment Module 4: Homework Assignment 4
Sun Jun 16, 2024	Assignment Module 5: Homework Assignment 5
Sun Jun 23, 2024	Assignment Module 6: Homework Assignment 6
Sun Jun 30, 2024	Assignment Module 7: Homework Assignment 7