

# CS 201: Programming In C++ (Section 1)

Fall 2020

Instructor: Hadi Shafei  
Office Hours (via Zoom): MWF 2:00 pm - 4:00 pm  
Class Hours: MWF 12:00 pm - 12:50 pm

E-mail: hshafei@nmu.edu  
Office: 2220 Jamrich Hall  
Classroom: West Science 2906

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## Course Description

This course teaches you how to program in C++ assuming you already know how to program. Topics include pointers, memory management, data structures, object-oriented design, recursion, and file processing.

## Course Objectives

Upon completing this course, a student will be able to:

- Design and implement programs using C++.
- Apply object-oriented and procedural programming techniques to solve bigger computing problems.
- Understand dynamic memory allocation.
- Use pointers to process arrays, pass arguments, and improve program efficiency.
- Use nested control structures and multidimensional arrays.
- Perform file I/O.
- Understand and use recursion.
- Implement a linked list from scratch.
- Understand operator overloading.
- Understand inheritance.

## **Textbook**

No textbook is required for this course. However, if you want to have a textbook on C++, I suggest C++ *From Control Structures Through Objects*.

## **Grading Policy**

Grades will be based on assignments (including homework assignments and labs) (40%), quizzes (5%), attendance (5%), a midterm exam (20%), and a final exam (30%). You must be present in class for labs and quizzes.

## **Late Policy**

Due dates are strict. Late submissions are penalized 20% per day. You may ask for an extension but you should do it **before** the deadline.

## **Academic Dishonesty Policy**

Students have an obligation to abide by accepted standards of academic honesty, which dictate that all scholastic work shall be original in nature. Procedures and penalties pertaining to academic dishonesty are outlined in the NMU Student Handbook.

## **Disabilities Services**

If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Dean of Students Office at 2001 C. B. Hedgcock Building (227-1737 or [disserv@nmu.edu](mailto:disserv@nmu.edu)). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.

## **Mask Accommodation ADA Statement**

Certain students may qualify for alternative face-covering accommodations due to a variety of health conditions. These students have gone through a qualifying process with the Office of Disability Services. Faculty have been notified of which students receive these accommodations in their class. If you have concerns regarding this topic please contact the faculty member outside of class. Please do not question or confront fellow students in the classroom who are using alternative or modified face coverings.