

## Computer Science Senior Project - 80777 CS 480 Section 01 Fall 2024

**Professor:** Jason Haskell

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**Regular Office Hours:** Monday, Wednesday, Thursday 1:00-2:00pm

**By Appointment Only Office Hours:** Thursday 9:00am-12:00pm, Friday 9:00-10:30am

*By appointment available in thirty-minute blocks on each hour and half hour. See ESP to make an appointment.*

**Text:** No textbook will be used for this class.

### COURSE DESCRIPTION

This course involves creating a significant software and/or hardware project. Work is supervised by an adviser. Topics must be approved first by an evaluation committee, which will later review and grade the completed project.

For details, examples, and procedure, see <http://cs.nmu.edu/~SeniorProjects>.

**Prerequisite:** CS 222, CS 228, junior standing and permission of adviser.

### Overview

This course involves creating a significant software and/or hardware project. Work is supervised by an advisor. Topics must be approved by your project committee, which will later review and grade the project. Students are expected to create significant new computer applications. The expectation in terms of significance is around 1,000 lines of new code (not counting markup code), although this can vary significantly depending on technologies learned, complexity of the problem domain, having a research component, hardware built, etc. This course is an opportunity to apply expertise developed through earlier coursework.

### Course Objectives

Upon successful completion of CS 480, a student should be able to:

- Put together a software project proposal.
- Successfully complete a significant software project from start to end, working mostly independently.
- Present the software coherently, both in written form and as an oral presentation.

Evaluation of these objectives will be done through the course deliverables (proposal, final paper, and the project itself). You are allowed to use existing code libraries and frameworks. Just be clear on what you did or didn't write. Good programmers build using other people's tools.

## **Grading**

Grades are based upon a standard rubric which takes into account the quality and significance of the project. Quality and punctuality of the final paper and presentation also affect the grade. **A late project proposal subtracts 1/3 of a letter grade per week late** (partial weeks rounded up).

## **Use of AI Writing Tools**

The use of any Generative Artificial Intelligence (AI) aids, such as ChatGPT, will be at the discretion of the student's Senior Project Advisor. All use of such an AI aid must be properly cited in the code and all lines created by said AI aid do not count towards the requisite number of lines of code.

## **NMU's Non-Discrimination Statement**

Northern Michigan University does not unlawfully discriminate on the basis of race, color, religion, sex, national origin, age, height, weight, marital status, familial status, handicap/disability, sexual orientation, or veteran status in employment or the provision of services, and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities an equal opportunity to participate in all programs and activities.

Anyone having civil rights inquiries may contact the Equal Opportunity Office, 502 Cohodas Hall, telephone number 906-227-2420.

## **ADA Statement**

If you have a need for disability-related accommodations or services, please inform the Coordinators of Disability Services in the Dean of Students Office at 2001 C. B. Hedgcock Building (906-227-1737 or [disability@nmu.edu](mailto:disability@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.

**Subject to change with notice.**