Syllabus

Course Objectives

CMSC 445 is a course on mobile application development. Specifically, you will be learning Android programming with the Kotlin language and iOS programming with the Swift language

Course Topics

Here is a list of the topics we will cover this term:

- Introduction to Kotlin
- Android View Applications
- Android Jetpack Compose Applications
- Introduction to Swift
- iOS SwiftUI Applications
- Group project

Web Site

The course web site is located at http://inside.lawrence.edu/fast/greggj/cmsc445.html

I will be posting lecture notes for each lecture along with example projects on the course web site.

Grading Policy

Your grade will be based on two midterm exams, programming assignments, and a final exam according to the following weightings.

Programming assignments	60%
Midterm exams	10% each
Final exam	20%

The late policy for this course is that you are allowed to turn in homework late for a late penalty. The late penalty is 5% off for each day the work is late, with a maximum late penalty of 25% off.

Policy on AI Use

Generative AI is now very much an established part of software development. For assignments in this course I will allow you to use AI coding assistants. The development environments we will be using for Android and iOS programming feature integrated AI agents, and I will be demonstrating how to make effective use of those tools. At the same time, I strongly recommend that you make an effort to write as much of your code as possible yourself to help reinforce the concepts you will be learning in this course.

All exams in this course will be handwritten in-class exams that will test your understanding of the core concepts in the course.

Office Hours

My office hours this term are 1:00-3:00 MWF and 2:00-4:00 TTh.