

COSC 3326: MOBILE PROGRAMMING**Assignment # 1: due on Tue. 9/23/2025 at 11:59 pm**

Remaining late days may be used in this assignment if needed.

Check "Late Days" policy in syllabus for more details.

Course Grade Planner

Create an iPhone app that displays the grading distribution of at least 3 courses you are taking this Fall 2025 semester. Using a Tab Bar Controller, dedicate each Tab/View for a separate course so you can navigate from one course to another using the Tab Navigator. In addition to displaying the basic course information in each View, the course grading distribution (e.g. HW 10%, midterm 20%, project 25%, etc.) should be represented using Sliders where the max range for each slider is equivalent to the weight of what it is representing. For example, if the midterm of the course is worth 20% of the total course grade, then the Slider that represents the midterm should have a min. value of 0 and a max. value of 20. While a Slider represents each item in the course grade breakdown, the user should be able to adjust (or move) these sliders and the app should automatically calculate the total grade for the course and display the letter grade (A, B, C, D, or F) according to the current value of the sliders for that particular course. To reduce unnecessary GUI objects in your app, you should avoid using an extra button for calculating the course grade and instead perform this calculation upon the slider adjustment.

Instructions:

- Make sure your app runs properly on the iPhone 16 Pro simulator, and the app is implemented using Xcode v. 16.4, with Swift 6 and for iOS 18.5.
- You may implement this assignment using either SwiftUI or UIKit.
- Make sure your app name, images, and content are academically appropriate.
- Include your name in the launch screen in the form of credits or copyrights.

What to submit: (all compressed in one zipped file)

1. Your Xcode project folder (application source code).
2. Your application bundle file .app file. Check instructions on Canvas.
3. A demo. video recording (with audio) of your app. Video length must be between 30 seconds and 3 minutes, and follows the video recording instructions below.
4. In one PDF file, write a short app description advertising your application along with at least 5 screenshots of your running app (like those you see in the App Store when advertising the app).

Grading: (Total points: 10 pts.)

- (6 pts.): Application satisfies requirements, error-free (no crashing), and application components are functioning as expected.
- (2 pts.): Application is user friendly, easy to navigate, nice GUI, good color scheme. Application must include an app icon and launch screen (with student name).

- (1 pt.): Application exceeds expectations. Make it clear in the submitted video recording to which feature(s) in your application you consider as “exceeds expectation”.
- (1 pt.): A demo. video recording (with audio) demonstrating the application.
- (- 4 pts.): Missing Xcode source files or Xcode project not running properly.
- (-1 pt.): Missing PDF file containing app description and 5 screenshots.
- (-1 pt.): Missing video recording with audio that follows video recording instructions.
- (-1 pt.): Missing app icon or launch screen (with the student name).
- (-1 pt.): GUI is not user friendly.
- (-1 pt.): Missing “exceeds expectations” feature.
- (-1 pt.): Missing .app file.

Video Recording Instructions:

The purpose of video recording your solution is to demonstrate and walk us through the mobile application you developed for this assignment. Make sure the length of your video is between 30 seconds and 3 minutes, and includes the following:

1. Introduction: Student name, course, semester, homework #
2. Explain the purpose of the application
3. Walk through the application, show all app. screens and features.
4. Explicitly mention the “exceeds expectation” feature(s) you implemented (if any)
5. Overall picture and a simple thank you for watching

Final note, please be professional in the recording to a certain extent. Be brief in explaining your application and do not repeatedly demonstrate similar functionalities. All things recorded (picture and audio) in the video must be academically appropriate.

Submission Checklist:

Use this checklist to make sure your submission contains the following:

- ☐ Application with all required components
- ☐ Application project files and source code
- ☐ Application bundle .app file included
- ☐ Application demo. video recording with audio
- ☐ App description and screenshots in one PDF file
- ☐ App icon, launch screen, and good GUI
- ☐ Your name in the launch screen
- ☐ “Exceeds expectation” feature(s) mentioned in the video recording
- ☐ Submission files downloaded and checked for missing files

Always let me know if you have any questions or need more clarification on the assignment or submission instructions.

Good Luck ☺