

# CSC 371/471 Mobile Applications Programming (iOS)

**Adjunct Professor Rohan Panchal**  
**Winter 2023**

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## Class Logistics

Class meets: Online / In-Person.

Mondays 5:45 - 9:00 CDT

Professor: Rohan Panchal

Email: [rpancha2@depaul.edu](mailto:rpancha2@depaul.edu)

Include CSC-371 or CSC-471: prefix in subject line

Course Management: [d2l.depaul.edu](https://d2l.depaul.edu)

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## Class Information

This course introduces the core issues associated with application development for mobile devices using the iOS platform. Students will learn the Swift language, the Xcode IDE, UIKit and other frameworks, the elements and architecture of the user interfaces, and more. Students will be exposed to the iOS system architecture including memory management, MVC, delegates and threads. Topics will also include understanding and handling of multi-touch events, gestures, and motion events.

### Topics

- Introduction to Xcode and iOS SDK
- Swift language overview
- iOS application architecture
- Building simple UI and handling basic interactions
- Storyboard
- Multi-view applications
- Table and navigation views
- Handling taps, touches, and gestures
- 2D graphics drawing

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## Textbooks

No required textbook

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## Grading

### Texts

No required textbook

If you are someone who learns best with a physical book, are collecting books during their education, need a new monitor stand, then the following text(s) are a great resource!

- iOS 15 Programming Fundamentals with Swift: Swift, Xcode, and Cocoa Basics By Matt Neuberg

### Grading

- 15% - Weekly on-line quizzes
  - Weight distribution: Weeks 1-5: 33%, Weeks 6-10: 67%
  - Each quiz opens at 9am on Tuesday following the lecture, and closes at 5PM the following Monday.
- 70% - Weekly (individual) programming assignments
  - Assignments will be posted before Monday lecture time and usually due on 11:59PM the following Tuesday
  - Start early and finish early!
  - All submissions are through D2L
  - There will be 7-8 weekly assignments
- 15% - Final Project
  - Individual or small team project
  - Proposal: (10% due week 7, February 14, 2021) and instructor approval required
  - Deliverable (60%, due week 11, March 14, 2021)
  - Demo (10% due week 11, March 14, 2021)
    - Short demo video
  - Documentation (20% due week 11, March 14, 2021)
- Late Policy
  - Late programming assignments will be accepted with penalties
    - 10% penalty for up to 7 days
    - An additional 10% penalty for each week thereafter
  - Each student has one free pass for a one-week extension, you may only use the free pass on one assignment during the entire quarter. Use it wisely. To use the free extension pass, indicate that in the comment while you submit your assignment in D2L.
  - The last day to submit programming assignments for partial credit is March 7, 2021 (week 10)
  - No later submission will be accepted for the final project. (The free extension pass does not apply to the final project.)

### Final Exam / Project

The final exam will be the final project for the course.

- Individual or small team project
- Proposal: (10% due week 7, February 14, 2021) and instructor approval required
- Deliverable (60%, due week 11, March 14, 2021)
- Demo (10% due week 11, March 14, 2021)
  - Short demo video
- Documentation (20% due week 11, March 14, 2021)

The final project should be uploaded to D2L submissions

## Grade Scale

A+	97–100%
A	93–96%
A–	90–92%
B+	87–89%
B	83–86%
B–	80–82%
C+	77–79%
C	73–76%
C–	70–72%
D+	67–69%
D	63–66%
D–	60–62%
F	0–59%

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## Class Structure

This class will be in-person and online async/sync.

All assignments, schedules, lecture materials will be available online at D2L.

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## Academic Integrity:

Cheating, plagiarism, and unethical conduct are not allowed, and will be sanctioned, including referral to the dean's office, and failure in the class. Please refer to the academic handbook by which rules you are expected to abide.

Violations include, but are not limited to: making claims on any checklist for work that has not been done; including ANY un-cited work of others in any documents you turn in; turning in work, including any program, that has been authored by someone other than yourself; and in some cases including *any* work of others, whether cited or not—see the rules for each assignment.

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## Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be addressed during class, posted in D2L, and sent via email.

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## Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Students complete the evaluation online in CampusConnect.

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## Academic Integrity and Plagiarism

This course will be subject to the university's academic integrity policy. More information can be found at <http://academicintegrity.depaul.edu/>. If you have any questions be sure to consult with your professor.

**Academic Policies**  
All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the University Academic Calendar. Information on enrollment, withdrawal, grading and incompletes can be found at: [cdm.depaul.edu/enrollment](http://cdm.depaul.edu/enrollment).

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## Students with Disabilities

Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at: [csd@depaul.edu](mailto:csd@depaul.edu).

Lewis Center 1420, 25 East Jackson Blvd. Phone number: (312)362-8002  
Fax: (312)362-6544 TTY: (773)325.7296



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## Other Course Policies

### **Attendance:**

Mandatory.

No such thing as an excused absence from group meetings which will result in a 4% reduction in your group project grade.

### **Class Discussion:**

Student participation in class discussions in the groups is expected.

Attitude: A professional and academic attitude is expected throughout this course. Measurable examples of non-academic or unprofessional attitude include but are not limited to: talking to others when the instructor is speaking, mocking another's opinion, cell phones ringing, emailing, texting or using the internet whether on a phone or computer. If any issues arise a student may be asked to leave the classroom.

### **Cell phones / laptops in class:**

If you need to use your cell phone for any reason, or your laptop for any reason other than following the class slides, and taking notes, *leave the room*. You may quietly leave and re-enter as often as necessary unless I note otherwise. Your peers devote many hours out of their busy lives, and hundreds of dollars, to come to class. They deserve a vibrant, focused, environment. If you have a special case, discuss it with the instructor ahead of time. NO TEXTING, EMAIL, FACEBOOK, etc. in the classroom.

### **Civil Discourse:**

DePaul University is a community that thrives on open discourse that challenges students, both intellectually and personally, to be Socially Responsible Leaders. It is the expectation that all dialogue in this course is civil and respectful of the dignity of each student. Any instances of disrespect or hostility can jeopardize a student's ability to be successful in the course.