

# Syllabus

## CSC 372/472 Mobile Application Development for Android

School of Computing  
DePaul University

Autumn Quarter 2015 (September 9, 2015 – November 24, 2015)

First day of class: Tuesday September 15, 2015

Classroom section: Tuesday 5:45 – 9:00 pm, Loop Campus

On-Line Learning: <http://d2l.depaul.edu/>

Course Home Page: <http://venus.cs.depaul.edu/csc472>

Instructor: [Dr. Xiaoping Jia](#)

Office: Room 843, CDM Building

Tel: (312) 362-6251, Fax: (312) 362-6116

Office Hours: Tuesday 4:00 -- 5:30pm (Loop campus)

E-mail: [xjia@cdm.depaul.edu](mailto:xjia@cdm.depaul.edu)

Twitter: [@DePaulSWEng](#)

Instructor Home Page: <http://venus.cs.depaul.edu/xjia>

### Course Description

This course introduces the core issues associated with application development for mobile devices using the Android platform. Students will learn the Eclipse IDE, frameworks, the elements and architecture of user interfaces, graphics, and more. Students will be exposed to the Android system architecture, including Views, Widgets, Resources, Adapters, Intents and Activities. Topics will also include understanding and handling of threads, multi-touch events, gestures, and motion events.



### Prerequisites

Data Structures I & II (CSC403 or CSC301 or CSC383 or CSC393) and  
Computer Systems I & II (CSC407 or CSC374)  
(Implies proficiency in object-oriented programming in Java or C++)

### Textbooks

No required textbook.

Lecture notes and sample code will be provided in class. Various on-line resources and tutorials will also be used.

## Topics

The topics are tentative and subject to changes.

- Introduction to Android platform
- Overview of Android architecture
- Introduction to Android Studio and SDK
- Building user interfaces (UI), widgets, layouts, activities, and intents
- List views and activities
- Fragments
- Handling taps, touches, and gestures
- Two-dimensional graphics and animation
- Motion sensors
- Location-aware applications

## Mailing List

You *must* subscribe to the course mailing list. Do it *as soon as possible*.

<https://groups.google.com/d/forum/csc-372-472-autumn2015>

- I will reply to messages I receive to the course mailing list.
- The mailing list is archived.
- If you do not wish to receive messages, you may unsubscribe, or subscribe to a digest.

## Grading

- 15% - Weekly on-line quizzes
  - Weigh distribution: Weeks 1-5: 33%, Weeks 6-10: 67%
  - Each quiz opens at 9am on Wednesday following the lecture, and closes at **5pm** the following Tuesday.
  - You will be able to view your answers and the correct answers in D2L starting the day after the quiz closes.
- 60% - Weekly (individual) programming assignments
  - Assignments will be posted before Tuesday lecture time and usually due on 11:59pm the following Tuesday. (There will be a 6-hour grace period, during which the late penalty will be waived.)
  - Start early and finish early!
  - All submissions are through the Dropbox in D2L.
  - Weigh distribution: Assignments 1-2: 20%, Assignments 3-6: 80%
- 25% - Final Project
  - Individual or small team project
  - Project proposal (10%, due week 7, October 27, 2015) and instructor approval required
  - Deliverable (60%, due week 11, November 24, 2015)
  - Project demo (10%, week 11, November 24, 2015)
    - In class or by video conference
    - Include a short demo video
  - Documentation (20% due week 11, November 24, 2015)

- 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 an 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 November 17, 2015 (week 10)
  - No late submission will be accepted for the final project. (The free extension pass does not apply to the final project.)

- **Grading scale:**

<b>A :</b>	total $\geq 93$	<b>C+:</b>	80 > total $\geq 77$
<b>A-:</b>	93 > total $\geq 90$	<b>C :</b>	77 > total $\geq 73$
<b>B+:</b>	90 > total $\geq 87$	<b>C-:</b>	73 > total $\geq 70$
<b>B :</b>	87 > total $\geq 83$	<b>D+:</b>	70 > total $\geq 67$
<b>B-:</b>	83 > total $\geq 80$	<b>D :</b>	67 > total $\geq 63$
		<b>D-:</b>	63 > total $\geq 60$
		<b>F :</b>	total < 60

## Email

Email is the primary means of communication between faculty and students enrolled in this course outside of class time. Students should be sure their email listed under "demographic information" at <http://campusconnect.depaul.edu> is correct.

## Academic Integrity Policy

This course will be subject to the academic integrity policy passed by faculty. More information can be found at <http://academicintegrity.depaul.edu/>

## Plagiarism

The university and school policy on plagiarism can be summarized as follows: Students in this course should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work any assignment that has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

## **Incomplete**

An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.

## **Resources for 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: Student Center, LPC, Suite #370, Phone number: (773)325.1677 Fax: (773)325.3720 TTY: (773)325.7296