

- Winter Quarter AY 2017-18
- Classroom section:
 - Tuesday 5:45 9:00 pm
 - Loop Campus
- On-Line Learning (D2L)
 - http://d2l.depaul.edu/
- Course Home Page
 - http://venus.cs.depaul.edu/csc471

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Instructor

- Prof. Xiaoping Jia
- Office: Room 843, CDM Building
 - Tel: (312) 362-6251
 - Fax: (312) 362-6116
- Office Hours:
 - Tuesday 4:00 5:30pm
- E-mail: xjia@cdm.depaul.edu
- Home Page: http://venus.cs.depaul.edu/xjia

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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++
 - Understanding of system fundamentals and memory models

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Textbooks

- No required textbook.
- Lecture notes and sample code will be provided in D2I
- Various on-line resources and tutorials may also be helpful.
- Official iOS API, SDK references
 - Apple's iOS Development website
 SDK, Guides, Sample Code,
 http://developer.apple.com/devcenter/ios/index.action

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Other References

• The Swift Programming Language (Swift 4).

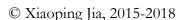
Apple Inc., eBook: available in iTune

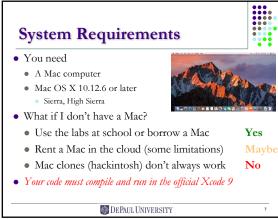
https://itunes.apple.com/

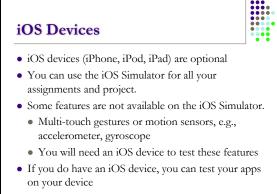
On-line:

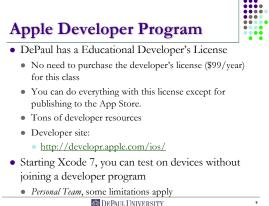
https://developer.apple.com/library/mac/documentation/Swift/Conceptual/Swift_Programming_Language/

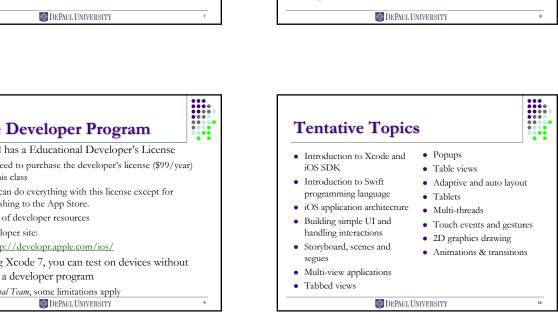
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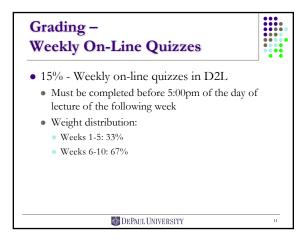


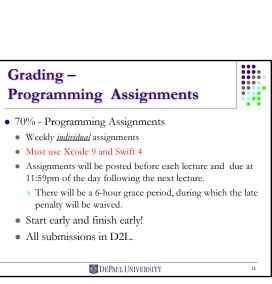












Grading – Final Project

- 15% Final Project (due week 11, March 13, 2018)
 - To develop an app of your own
 - · Individual or small team project
 - Must use Xcode 9 and Swift 4
 - Project proposal (10%, due week 7, February 13, 2018)
 Instructor approval is required!
 - Deliverable (60%): project code
 - Project demo (10%): a short demo video
 - Documentations & final report (20%)
 - No late submission will be accepted for the final project

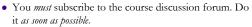
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Grading - Late Policy

- Late policy for programming assignments
- 10% penalty for up to 7 days. Additional 10% for each week thereafter.
- · 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.
 - The free extension pass does not apply to the final project.
- The last day to submit programming assignments for partial credit is March 6, 2018 (week 10)

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Discussion Forum

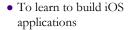


http://groups.google.com/group/csc-371-471-winter-2018

- Post course related questions to the forum
- Students are encouraged to respond to questions
- I will monitor and respond to questions
- The discussion forum is archived.
- If you do not wish to receive messages, you may unsubscribe, or subscribe to a digest.

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Why Are We Here?

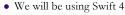


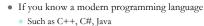
 To learn about Software Engineering, and Object Oriented Architecture and Design



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The Language - Swift







- You can learn another language quickly
- Many similarities with Java/C++
 - · Loops, conditions, functions, data structures
 - Structure of programs
- Many modern programming concepts
- The Swift language ebook is a good reference

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Why Swift?

- The main language iOS uses is Objective-C & Swift
- SDK, frameworks, libraries, samples
- Swift is modern
 - An alternative to Objective-C, not backward compatible
 - Fully interoperable with Objective-C
 - Swift & Objective-C share the same run-time libraries
- Interesting comparison with designs of C++ and Java
- Popularity is rising! (TIOBE Index)
 - Objective-C: 45 (2007) → 3 (March 2015) → 19 (Nov 2017)
 - Swift: ∞ (Jun 2014) → 10 (March 2017)

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