

CS 3260	Mobile Development for the iPhone
Instructor	Adam Hellewell Office: None Phone: 801-725-0192 email: <a href="mailto:adamhellewell@weber.edu">adamhellewell@weber.edu</a>
Classroom	TE 108
Day and Time	Monday and Wednesday from 5:30 -7:20 PM
Text	Online Tutorials, Students are <b>NOT required to have a Mac computer nor an iPhone, iPod Touch or iPad</b> , although it will be an advantage to have one.
Goals	Introduction to developing applications for mobile iOS devices (iPhone, iPod Touch and iPad) using the iPhone SDK, in conjunction with the Xcode/Cocoa development environment. Students will learn the basics of the Objective-C programming language and use it to develop applications for the iPhone family of devices. Students will also gain experience in working in a team environment. Prerequisites: CS1410, CS 2350, and CS 2550.
Class	Class will consist of some lecture and discussion on topics related to the study guide. Questions and comments during class time are encouraged. The majority of class time during the semester will be devoted to learning and participating in programming techniques. It is expected that students will have read the assigned chapters prior to the related class period. It is also expected that students will spend at least 1 hours on outside programming and / or study for every hour spent in class. The instructor will ask questions of the students to ensure that learning is taking place.
Quizzes / Presentations	Occasional quizzes may be given to determine whether students are learning the material. Students may also be asked to learn a specific principle and teach part of the class
Exams	One midterm may be given. If so, it will constituted approximately 50% of the final grade. This exam will be given during class time. (Grading will be adjusted appropriately)
Projects	There will be weekly programming assignments and projects given during the semester.
Final Project	There will be a final project which will
Attendance	Attendance in class is mandatory. If you are going to miss multiple class periods please let the instructor know ahead of time.
Accommodations for disabilities	Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including this syllabus) in alternative formats if necessary. For more information about the SSD contact them at 801-626-6413, <a href="mailto:ssd@weber.edu">ssd@weber.edu</a> , or <a href="http://departments.weber.edu/ssd">departments.weber.edu/ssd</a>

Grading	<p>Weekly Assignments(Projects) - 30%</p> <p>Learning Review Quizzes - 20%</p> <p>Final Project - 50%</p> <p>Letter Grades</p> <p>100 - 90% A</p> <p>90 - 80% B</p> <p>80 - 70% C</p> <p>70 - 60% D</p> <p>Below 60% F</p>
Policies	<p>Exams and quizzes can only be taken on the day given unless arrangements are made to take them ahead of time. Projects and presentations <b>may not</b> be turned in late. Students will treat the teacher as a client and must meet the deadlines of the client, if not then they must negotiate the new due date.</p>
Academic Honesty	<p>Academic honesty is highly valued at Weber State University and within this class. A student must always submit work that represents his or her original words or ideas. If any words or ideas are used that do not represent the student's original words or ideas, the student must cite all relevant sources. The student should also make clear the extent to which such sources were used. Words or ideas that require citations include, but are not limited to, all hardcopy or electronic publications, whether copyrighted or not, and all verbal or visual communication when the content of such communication clearly originates from an identifiable source.</p> <p>Individuals involved in any acts of cheating or plagiarism will be given a failing grade for the course. In addition, names of these individuals will be submitted for disciplinary action by the department and the university.</p> <p>Academic dishonesty in an online learning environment involves any and all of the following:</p> <ul style="list-style-type: none"> <li>- Having a tutor or friend complete a portion of your assignments</li> <li>- Having a reviewer make extensive revisions to an assignment</li> <li>- Copying work directly from another student</li> <li>- Using information from online information services without proper citation</li> </ul> <p>If detail source code is duplicated from another's program into yours, it will be deemed as cheating and severe action will be taken against persons who knowingly have participated.</p> <p>Source code that doesn't match the output results may also be deemed as cheating which may result in severe penalties. Students are expected to be familiar with the WSU Student Code and abide by it. The Code may be reviewed online at <a href="http://www.weber.edu/ppm/6-22.htm">http://www.weber.edu/ppm/6-22.htm</a> (pay specific attention to Section 4D). All necessary steps will be taken to enforce the Student Code to guarantee fairness to all students.</p> <p>CS Department policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in: 1) an automatic failing grade for the class and 2) a report to the Dean of Students that will include the student's name and a description of the student's dishonest conduct.</p>

<b>Schedule</b>			
<b>Week</b>	<b>Agenda</b>	<b>Online Resources</b>	<b>Assignments</b>
		<a href="https://developer.apple.com/library/ios/documentation/">https://developer.apple.com/library/ios/documentation/</a>  <a href="http://www.raywenderlich.com/tutorials">http://www.raywenderlich.com/tutorials</a>	
Week 1 - Jan 12	Course Introduction Version Control Hello World App UIViewController, UIView, UIScrollView UILabel  Objective C UI Elements User Interaction	Version Control - <a href="https://bitbucket.org/">https://bitbucket.org/</a>  UIElements - <a href="https://developer.apple.com/library/ios/documentation/UIKit/Reference/UIKit_Framework/index.html#/apple_ref/doc/uid/TP40006955">https://developer.apple.com/library/ios/documentation/UIKit/Reference/UIKit_Framework/index.html#/apple_ref/doc/uid/TP40006955</a>  ScrollView - <a href="http://www.raywenderlich.com/10518/how-to-use-uiscrollview-to-scroll-and-zoom-content">http://www.raywenderlich.com/10518/how-to-use-uiscrollview-to-scroll-and-zoom-content</a>	1- Set up version control 2- Scrollview 3- ScoreKeeper
Week 2 - Jan 19	<b>Jan 19th - MLK Day - No School</b> Table Views Images	<a href="https://developer.apple.com/library/ios/documentation/UIKit/Reference/UITableView_Class/index.html#/apple_ref/doc/uid/TP40006943-CH3-SW25">https://developer.apple.com/library/ios/documentation/UIKit/Reference/UITableView_Class/index.html#/apple_ref/doc/uid/TP40006943-CH3-SW25</a>	Simple Recipe App
Week 3 - Jan 26	Navigation Controllers & Datasources & Delegation  Local Data Storage NSUserDefaults Plists Dictionaries	Navigation - <a href="https://developer.apple.com/library/ios/documentation/UIKit/Reference/UINavigationController_Class/">https://developer.apple.com/library/ios/documentation/UIKit/Reference/UINavigationController_Class/</a>  Apple Documentation for Storage	1- Recipe App using navigation  2- Recipe App using local storage

Week 4 - Feb 2	<p>Debugging Custom Objects NavigationBar</p> <p>Tab Bar Notification Center Local Notifications</p>	<p>Custom Object: <a href="https://developer.apple.com/library/ios/referencelibrary/GettingStarted/RoadMapiOS/WritingaCustomClass.html">https://developer.apple.com/library/ios/referencelibrary/GettingStarted/RoadMapiOS/WritingaCustomClass.html</a></p> <p>Tab Bar - <a href="https://developer.apple.com/library/ios/documentation/WindowsViews/Conceptual/ViewControllerCatalog/Chapters/TabBarController.html">https://developer.apple.com/library/ios/documentation/WindowsViews/Conceptual/ViewControllerCatalog/Chapters/TabBarController.html</a></p>	<p>1- Journaling App</p> <p>2 - Pomodoro Timer</p>
Week 5 - Feb 9	<p>ToolBar PickerView, Date Picker MFComposeMail</p>	<p><a href="https://developer.apple.com/library/ios/documentation/UIKit/Reference/UIKit_Framework/index.html#//apple_ref/doc/uid/TP40006955">https://developer.apple.com/library/ios/documentation/UIKit/Reference/UIKit_Framework/index.html#//apple_ref/doc/uid/TP40006955</a></p>	<p>1- Time Tracker</p>
Week 6 - Feb 16	<p><b>Feb 16th - Presidents Day - No School</b> Review</p> <p>App Design</p> <p>StoryBoards</p>	<p><a href="http://www.raywenderlich.com/50308/storyboards-tutorial-in-ios-7-part-1">http://www.raywenderlich.com/50308/storyboards-tutorial-in-ios-7-part-1</a></p> <p><a href="https://www.youtube.com/watch?v=p5wD8dvSDbM">https://www.youtube.com/watch?v=p5wD8dvSDbM</a></p>	<p>1- Simple Storyboard Application</p>
Week 7 - Feb 23	<p>Autolayout CollectionViews</p>	<p>Autolayout - <a href="http://www.thinkandbuild.it/learn-to-love-auto-layout-programmatically/">http://www.thinkandbuild.it/learn-to-love-auto-layout-programmatically/</a></p> <p>CollectionView - <a href="http://www.raywenderlich.com/22324/beginning-uicollectionview-in-ios-6-part-12">http://www.raywenderlich.com/22324/beginning-uicollectionview-in-ios-6-part-12</a></p>	<p>1- Final Project App Idea</p> <p>2- Recipe App with Collection View</p>
Week 8 - Mar 2	<p>Webservices Connect to Backend Data Parse</p> <p>Assignment - App with Backend</p>	<p><a href="https://parse.com/docs">https://parse.com/docs</a></p>	<p>1- Final Project App Idea - Approved by Instructor</p> <p>2- Recipe App updated with Parse</p>
Week 9 - Mar 9	<b>Spring Break</b>		
Week 10 - Mar 16	<p>Review Core Data</p>	<p><a href="http://www.raywenderlich.com/934/core-data-tutorial-for-ios-getting-started">http://www.raywenderlich.com/934/core-data-tutorial-for-ios-getting-started</a></p>	<p>1- Local Data App</p>

Week 11 - Mar 23	Animations using blocks Blocks	<a href="http://www.raywenderlich.com/2454/uiview-tutorial-for-ios-how-to-use-uiview-animation">http://www.raywenderlich.com/2454/uiview-tutorial-for-ios-how-to-use-uiview-animation</a>	1- Flying Tennis ball
Week 12 - Mar 30	Categories, Subclasses, Custom Interfaces	<a href="https://developer.apple.com/library/ios/documentation/Cocoa/Conceptual/ProgrammingWithObjectiveC/CustomizingExistingClasses/CustomizingExistingClasses.html">https://developer.apple.com/library/ios/documentation/Cocoa/Conceptual/ProgrammingWithObjectiveC/CustomizingExistingClasses/CustomizingExistingClasses.html</a>	1- App Using Subclasses
Week 13 - Apr 6	Swift  Final Project Lab	<a href="http://www.raywenderlich.com/74438/swift-tutorial-a-quick-start">http://www.raywenderlich.com/74438/swift-tutorial-a-quick-start</a>	1 - Score Keeper App in Swift
Week 14 - Apr 13	Mapping  Advanced Topics  Final Project Lab		
Week 15 - Apr 20	Advanced Topics  Final Project Lab		
Week 16 - Apr 27	<b>Finals Week</b> <b>Final Project Presentations - Monday</b>		