

Mobile Application Technologies

ITP 140 (2 Units) Fall 2015

			
Catalogue	This class covers the mobile industry, devices, operating systems, types of apps,		
Description	how to monetize apps, and how much it costs to build an app. Students will learn		
	how to design an app, build a prototype, conduct usability tests, and create a		
Ohiostivo	business plan.		
Objective	Upon conclusion of this course, students will have taken an app idea from start to		
	prototype and business plan. Students will use various tools to create a color		
	palette and app icon, wireframes, and an interactive prototype. The goal is an		
Duanaguisitas	interactive prototype of an app, not a working native app.		
Prerequisites	None.		
Instructor	Trina Gregory (trinagre@usc.edu)		
Office Hours	Listed on Blackboard under Contacts.		
Lab Assistants	Listed on Blackboard under Contacts.		
Course Hours	Tuesday and Thursday, 3:30 am – 4:50 pm.		
Course Structure	The class meets for one hour and 20 minutes twice a week for a total of 2 hours and		
	40 minutes. These sessions include lectures and hands-on learning labs. One exam		
	is given during the semester and held during the class meeting. Weekly assignments		
	and a final project are completed outside of class time. The final project is a group-		
	based project with groups of 1 to 4 students. The final project includes a business		
	plan presentation and a demonstration of a mobile app prototype. Access to a		
	computer is recommended, although ITP holds open lab hours with computers. All		
	course material is available on Blackboard at http://blackboard.usc.edu .		
Required Textbook	None.		
Grading	The following percentage breakdown is used to determine the final grade.		
	Assignments (weighted proportionally) 50%		
	Midterm Exam 25%		
	Final Project 25%		
	TOTAL POSSIBLE 100%		
Grading Scale	The following scale is used to determine the letter grade:		
	93% and above A		
	90 - 92% A-		
	87 - 89% B+		
	83 - 86% B		
	80 - 82% B-		
	77 - 79% C+		
	73 - 76% C		
	70 - 72% C-		
	69 - 65 D		
	64 and below F		
	If you are taking the class with a grade of P/NP, you must earn a grade of 70% or		
	higher in order to receive a P. Final grade percentages are calculated to two		
	decimal places and rounded to hundredths. For example, 89.99 is a B+ while 89.995		
	is rounded to 90 and thus an A		

Homework

The assignments will be posted on Blackboard under the "Assignments" section. Each assignment will include instructions, a due date, and a link for electronic submission. Assignments must be submitted using this link. All assignments will be digitally submitted through Blackboard except where specifically specified. Do not email them to the lecturer or lab assistant.

It is your responsibility to submit assignments on or before the due date. Assignments turned in up to three days late will have 50% of the total points deducted from the graded score. After three days, submissions will not be accepted and you will receive a 0. It is the responsibility of the student to contact the grader when posting late projects. Each student will be allowed ONE 24 hour late assignment for "free". May not be used on final project, and you must indicate that you are using your free late in the comments when you submit the assignment.

You are required to keep a copy of all of your assignments. You may save your assignments using a USB flash drive or a website such as http://www.dropbox.com. If available, you will be given one USB flash drive from ITP. You will not be able to save your work on the ITP lab computers. ITP is not responsible for any work lost.

Policies

No make-up exams (except for documented medical or family emergencies) will be offered.

A roster will be passed around the room during each lecture session. Please sign by your name for the appropriate week. Do not sign in for another student; doing so is an academic integrity violation.

ITP offers open lab use for all students enrolled in ITP classes. These open labs are held beginning the second week of classes through the last week of classes. Hours are listed at http://itp.usc.edu/labs/. The open labs will not have a lab assistant for this specific class. These lab times are there in case you do not have a computer or need extra time to complete an assignment.

Incomplete and Missing Grades

University Grading Handbook, located at

http://www.usc.edu/dept/ARR/grades/gradinghandbook/index.html, contains details on incomplete and missing grades, as well as other grading concerns.

A grade of Missing Grade (MG) should only be assigned in unique or unusual situations such as for those cases in which a student does not complete work for the course before the semester ends. All missing grades must be resolved by the instructor through the Correction of Grade Process. One calendar year is allowed to resolve a MG. If an MG is not resolved [within] one year, the grade is changed to UW (Unofficial Withdrawal) and will be calculated into the grade point average as zero grade points.

A grade of Incomplete (IN) is assigned when work is not completed because of documented illness or other 'emergency' occurring **after the twelfth week of the semester** (or 12th week equivalency for any course scheduled for less than 15 weeks).

Academic Integrity

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. All students are expected to understand and abide by these principles.

SCampus is USC's Student Guide to Policies and Conduct Code and can be found at http://scampus.usc.edu. Section 11 contains the Behavior Violating University Standards and Appropriate Sanctions and can be found at http://scampus.usc.edu/1100-behavior-violating-university-standards-and-appropriate-sanctions/. Students will be referred to the Office of Student Judicial Affairs and Community Standards (SJACS) for further review, should there be any suspicion of academic dishonesty. The Review process can be found at http://www.usc.edu/student-affairs/SJACS/.

An academic integrity tutorial can be found at http://www.usc.edu/libraries/about/reference/tutorials/academic_integrity/index.php

Examples of behavior violating University standards:

- The submission of material authored by another person but represented as the student's own work, whether that material is paraphrased or copied in verbatim or near-verbatim form.
- Obtaining for oneself or providing for another person a solution to homework, a
 project or other assignments, or a copy of an exam or exam key without the
 knowledge and expressed consent of the instructor.
- Unauthorized collaboration on a project, homework or other assignment.
 Collaboration between students will be considered unauthorized unless expressly part of the assignment in question or expressly permitted by the instructor.
- Fabrication: Submitting material for lab assignments, class projects or other assignments which is wholly or partially falsified, invented or otherwise does not represent work accomplished or undertaken by the student.
- Forgery, unauthorized alteration or unauthorized use of any university document, records, keys or instruments of identification, or of documents or records related to functions of the university.

If the instructor, a grader, or a lab assistant suspects you of academic dishonesty, it has to be reported to SJACS. Do not share lab assignments with another student. Do not submit another student's work as your own. Do not look at other students' papers during exams. Do not leave the room during an exam without permission. Do not cheat! As Trojans, we are faithful, scholarly, skillful, courageous, and ambitious.

Support Systems

Discrimination, sexual assault, and harassment are not tolerated by the university. You are encouraged to report any incidents to the *Office of Equity and Diversity* at http://equity.usc.edu/ or to the *Department of Public Safety* at http://capsnet.usc.edu/department/department-public-safety/online-forms/contact-us. This is important for the safety of the whole USC community. Another member of the university community – such as a friend, classmate, advisor, or faculty member – can help initiate the report, or can initiate the report on behalf of another person. *The Center for Women and Men*, information at http://www.usc.edu/student-affairs/cwm/, provides 24/7 confidential support. The sexual assault resource center webpage at sarc.usc.edu describes reporting options and other resources.

Disability Services

The Office of Disability Services and Programs, information at http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html, provides certification for students with disabilities and helps arrange the relevant accommodations. Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to your course instructor as early in the semester as possible. If you need accommodations for an exam, the form needs to be given to the instructor at least two weeks before the exam, but preferably at the beginning the semester.

Emergency Preparedness

If an officially declared emergency makes travel to campus infeasible, *USC Emergency Information*, information at http://emergency.usc.edu/, will provide safety and other updates, including ways in which instruction will be continued by means of blackboard, teleconferencing, and other technology. Additional information about *Campus Safety and Emergency Preparedness* can be found at http://preparedness.usc.edu.

Course Outline*			
Week	Topics	Assignments	
1	Course Overview; Mobile Industry		
	Technology Background; Internet		
2	App Types – web, native	1: Web app vs Mobile app	
	Networks	1. Web app vs Mobile app	
3	www	2: Websites	
	Responsive Web Design		
4	Mobile Design	Create Groups	
	Application Styles	Create Groups	
5	Colors, Images, and Icons	2: Ann Proposal	
	Photoshop	3: App Proposal	
6	Interface Design	4: Color Palette & App Icon	
	Wireframing using Balsamiq		
7	Monetization	5: Wireframes	
/	Business Model	5. WileHallies	
8	User Interfaces – iOS	5: Wireframes	
	User Interfaces – Android	3. Wilenames	
9	Review	Review for Exam	
	Midterm Exam		
10	User / Usability Testing	6: Wireframes Review	
	Wireframes Usability Testing		
11	Buy vs Build	7: Apps Analysis	
	The Cost of Development		
12	Business Plan	Final Project: Business Plan	
	Marketing		
13	Prototyping	Final Project: Prototype	
	APIs and Analytics	Final Project: Prototype	
14	Databases; Cloud	Holiday	
	No class	nolludy	
15	Windows; Deployment	Final Project	
	Presentations		
Finals	Final Project Presentations on Tuesday, December 15, at 2 pm.		

^{*} This course outline is for planning purposes and is subject to change.