Course Number: IS322
Course Title: Mobile Application: Design
Section: 002
Semester: Spring 2018
Date & Time: 10:00am – 12:55am
Location: Online
Credits: 3
Contact Hours: 3 Hours Face-to-Face

Instructor Information:
Name: Keith Williams
Office: 5114 GITC
Phone Number: 551-580-3989
Email (preferred): kwilliam@njit.edu

Office Hours:
GITC 2400

Course Materials

Required:

Banga, Cameron, and Josh Weinhold. Essential mobile interaction design: perfecting interface design in mobile apps. Upper Saddle River, NJ: Addison-Wesley, 2014. Print.

Catalog Description
Prerequisites: CS 113 or CS 115 or other computing GUR. This course is a practical introduction to building applications for mobile devices. The course combines hands on design and development experience, with a conceptual overview and discussion of design and practical development issues. Taken into account will be constraints and requirements of devices with small screen sizes, limited battery power, limited computational power, etc. Tools used for building an application in the context of a specific device such as iPhone or an Android based device will be discussed. Students build a mobile application to demonstrate their understanding of mobile web constraints and tools.

Prerequisites: CS 113 or CS 115 or other computing GUR

Learning Outcomes
1. Students will be able to create a visual design for a mobile application that demonstrates responsive design
2. Students will be able to create a mobile application using a structured process that consists of defining requirements, creating a mockup, and coding the application.
3. Students will be able to compare and contrast native, hybrid, web, and responsive development technologies.
4. Students will be able to design an n-tier mobile application

Grading Category Weights
4 Projects: 50%
Homework: 40%
Participation: 10%

Grading Scale
A: 90 - 100
B+: 88-89
B: 80 - 87
C+: 78-79
C: 70 – 77
D: 60 - 69
F: 0 - 59

Incompletes are only given for extenuating and documented medical, or personal issues.

Homework Rubric
1 - Completed on time
0 - Not Completed on Time

Late Project and Homework Policy
All projects and homework must be turned in on time, or you will lose one point for each week that project or homework is late. **Note: A homework that is 1 week late loses all points.**

Attendance
Attendance will be taken for each class meeting. You are permitted one unexcused absence for the class; however, each subsequent absence will result in a 3 percent reduction in your final grade. Attendance is worth 10% of your final grade.

Academic Integrity Policy
My expectation is that each person will complete original work for this course and will not copy from fellow students or tutorials online. It is OK to refer to tutorials online; however, you will be considered in violation of the NJIT honor code by submitting work found online. Any violations of the honor code will be referred to the Dean of Students for investigation and possible disciplinary action.
For more information about the NJIT honor code, you should refer to this document:

http://www.njit.edu/academics/pdf/academic-integrity-code.pdf

All dates on the calendar are tentative, please refer to Moodle for any changes in due dates

IS 322 Calendar

Week	Readings	Project and Homework	Major Activities
1/18/18	Chapter 1 – Industry Players	App Review Assigned	
1/25/18	Chapter 2 – Interaction Design Intro Chapter 3 – Mobile vs. Desktop Chapter 4 – First Sketch	Your First App Design with Proto.io Assigned	Introduction to Proto.io
2/1/18	Chapter 5 – Design Flow Chapter 6 – Designing for Visual Appeal	App Review Due	
2/8/18	Chapter 7 – Working with Programmers Chapter 8 – Making it Usable Chapter 9 – Design for Simplicity	First App Design Due and 2nd Draft Assigned	In Class Review of 1st app Design
2/15/18	Chapter 10 – Getting feedback	Second Draft of your app due	In class review of revisions
2/22/18	Chapter 11 – Refreshing the Design	Testing Plan Due	Review of testing plan
3/1/18			In class User Testing
3/8/18		Final Design of your app due	App Design Presentation
3/15/18	Spring Break – Take home exam		Midterm
3/22/18	App Development Week		App Development Lab
3/29/18	App Development Week		App Development Lab
4/5/18	App Development Week		App Development Lab
4/12/18	App Development Week		App Development Lab
4/19/18	App Development Week		App Development Lab
4/26/18	App Development Week		App Development Lab
5/3/18	Presenting Your App		Final Project Demo Day
5/10/18			Final Exam

Dates for quizzes, homework, projects, and tests are posted in Moodle.