



Instructor: Christopher Slee

Phone: 614.360.1246

Email: slee.20@osu.edu

Office Hours: By Appointment.

To arrange office hours, please email the instructor.

Course material is available on Carmen at <https://carmen.osu.edu/>

Course Description

Students will focus on designing, and specifying requirements, in building a mobile app for a nonprofit client. The outcome will be a “blue print” of an application that the student can use to verify impact and need within an organization. The “blue print” helps the student communicate the scope and features of the app, and provides the jumping off point to the second course, where the student will learn the how to take those “blue prints” and begin to turn them into software. The student will also learn how to participate in a software project by learning the elements of a project using a hands on approach.

Course Objective

Upon completion of the course, students will acquire some very marketable skills. Students will learn the art of clearly communicating with clients, vendors, partners and users about their needs, and translating that knowledge into a working application. Students will acquire design skills, and learn how to think about market development and how to promote a new service.

John Glenn College Learning Objectives

Successful completion of this skills course will provide an advanced understanding of two of the College’s learning objectives:

- Understanding the role of information technology in managing and leading an organization
- Managing the storage and retrieval of data

Class Structure

The class will consist of a mixture of lecture and discussion. Using explained examples, student will work independently to ensure that skills are understood. Time will often be provided to work on the assignments and the final project in class. In this course, students will work independently.

Workload/Course Expectations

For each credit, there is about an hour of in class meeting time, and 2 hours out of class work. So for a one-credit class, you should expect 14 hours of in-class instruction and about twice that outside of class preparing and doing homework and assignments.

The instructor will have office hours and additional software developers will be available to assist students with guidance and mentoring.

Email Policy

Email is the best way to contact me. I will generally get back to you within 24 hours, at the latest (unless it is a weekend). If the question is one that would be useful to the class, I prefer that you post your question to the appropriate discussion board.

Course Prerequisites

There are no prerequisites for the course.

Textbooks

Students will be provided access to all course material online through Carmen.

Course Requirements

The following components make up the final course grade:

Breakdown	Points
Assignments 1-4	20
Assignment 5	10
Assignment 6	20
Assignment 7	10
Assignment 8	20
Final Updated Package	15
Participation in Class Discussions	5
Total	100

Grading Scale:

A 93-100	A- 90-92.9	B+ 87-89.9
B 83-86.9	B- 80-82.9	C+ 77-77.9
C 73-76.9	C- 70-72.9	D+ 67-69.9
D 67-69.9	E <60	

Class Contribution

Class contribution is critical to make this course as valuable as possible for you and your fellow students. This **includes having read assigned readings before class**, participating in conversations regarding those readings, asking questions, clarifying assignments, participating in the lab portion of the class, and sharing personal and professional experiences that can aid the class during discussions. Attendance is considered part of class contribution, and lack of attendance and leaving the lab portion of the class early will reduce this portion of your grade. Lack of evidence that class readings were completed will also affect this portion of your grade.

Course Policies

All assignments should be turned in the Carmen dropbox by 9am on the day they are due, unless otherwise stated. If for any reason you cannot submit the item via Carmen you must get them to me via other methods.

Informing the instructor of your intention to be absent does not waive your obligation to submit assigned work. Late work will be accepted with a one-third-letter grade penalty each day that it is late (A- to B+), unless prior approval is granted by the instructor

Grade Appeals

Grades on assignments are intended to reflect the overall quality of performance of the student. You may appeal your grade on an assignment if you think the grade does not reflect the quality of your performance on the assignment. To appeal a grade, submit a clear written explanation via email describing why you believe the assigned grade is inappropriate within one week after your work is returned. I will carefully consider all such appeals.

Academic Integrity

The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Failure to follow the rules and guidelines established in the University's Code of Student Conduct may constitute "Academic Misconduct." Sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

<http://oaa.osu.edu/coamfaqs.html> - [academicmisconductstatement](#)

In the Ohio State University's Code of Student Conduct, Section 3335-23-04 defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and

excessive quotation and paraphrasing of other's work with or without citation. Ignorance of the University's Code of Student Conduct is never considered an "excuse" for academic misconduct.

For the purposes of this class, you may not work together on any assignments. You may ask each other general questions to clarify concepts and ideas, but these questions may not directly pertain to how to complete assignments. All work must be original and be your own.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact the instructor.

Academic Support Services

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know is suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the **Office of Student Life Counseling and Consultation Services (CCS)** by visiting ccs.osu.edu or calling 614-292- 5766. CCS is located on the 4th Floor of the Younkin Success Center and 4th Floor of the PAES Building. 24 hour emergency help is also available through the National 24/7 Prevention Hotline at 1-800-273-TALK or at suicidepreventionlifeline.org

Disability Services

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; <http://www.ods.ohio-state.edu/>

SAMPLE

Course Schedule

Week	Topics	Guide Reading Due*	Assignments Due
Week 1: January 13th	<ul style="list-style-type: none"> • Course Review • Application Targets and Ideas • Market Survey 	Pg 1-20	No Assignment
Week 2: January 20th	<ul style="list-style-type: none"> • Assignment Review • Pieces and Parts 	Pg 21-45	#1 #2
Week 3: January 27th	<ul style="list-style-type: none"> • Application Life Cycle and Iteration • Cost Models and ROI • Functional Breakdown (Modules, Areas, and Features) 	Pg 46-70	#3
Week 4: February 3^d	<ul style="list-style-type: none"> • Use Cases and Features 	Pg 71-84	#4 #5
Week 5: February 10th	<ul style="list-style-type: none"> • UX/UI Overview • Tools of the Trade • Determining the flow • The Wires 	Pg 85-91	#6
Week 6: February 17th	Lab time for wireframe development	No reading	#7
Week 7: February 24th	Presentations	No reading	#8 Final Package

*Guide refers to the ebook: AWH. (2015). The Almost Ultimate Guide to Developing an Application (On Any Platform!). Columbus, OH: AWH E-Books

Assignment Details

All assignments will be will be graded on; following the class examples and templates, completeness of thought, proper use of grammar, spelling and punctuation. Some assignments may have additional scoring criteria that will be identified by each assignment description.

Id	Assignment	Description
1	Application Awareness Plan	Each student should independently write a response, between 250 to 500 words in length (double spaced, 1" margins, 12 point Arial), explaining the application concept, including who the targeted audience would be, what value the audience would derive from the application, and branding examples. Value, Audience, and Branding will be discussed in class and this assignment should follow those examples.
2	Market Survey	Prepare a Market Survey (using the Market Survey Example) that compares your proposed application to 3-6 other applications that are similar in concept. Provide screenshots, marketing and branding material. Provide a 2-3 paragraph narrative comparison of features and what makes your concept different and a better option for your user demographic for each competitive application. This assignment will be graded additionally on having all required elements present and representative of competitive applications.
3	Why do you need an app	Each student should independently write a response, between one to two pages in length (double spaced, 1" margins, 12 point Arial), answering the 5 questions that are posed in the

		Strategy section (pg 42-44) of the Guide.
4	Identifying the ROI	<p>Each student should prepare a Return on Investment (ROI) calculation and summary. The summary should highlight the areas from which an ROI could be calculated and how they were derived. A spreadsheet should be attached showing the calculations used and the ROI (one time and over time) as well as cost estimates.</p> <p>This assignment will not be graded on the accuracy of the calculations, however it will be graded on demonstrating the understanding cost and revenue opportunities.</p>
5	Functional Breakdown	Each student should prepare a Functional Breakdown spreadsheet (using the Functional Breakdown Template), outline the modules, areas, and features that make up the application. Features should be clearly delimited into which version in the application they are going to be provided to the users.
6	Use Case Development	<p>Each student should independently prepare a set of use cases (using the Use Case Template) for each core feature the application will expose to a user, or any system-to-system interactions. The use cases should be recorded in the Use Case spreadsheet.</p> <p>This assignment will be graded on the student demonstrating they understand how their application users will use the system.</p>

7	Application Flow Diagram	Each student should prepare an Application Flow Diagram (using the provided sample as a reference). The flow should contain reference to all UI and show transition states.
8	Application Wireframes	<p>Each student should prepare a set of wireframes that clearly show the collection of core features per view that the end user would use while interacting with the application. Wireframes should be complete and facilitate app navigation.</p> <p>This assignment will have class time set aside to help the student with the project.</p>
9	Final Package	During the course of completing this course updates to all assignments will be done as more information and revisions are made. The final package is a complete update set of all previous assignments, updated, and submitted as either a single PDF or a single printed document set.

SAMPLE