

Edinboro University of Pennsylvania
Department of Math & Computer Science

C O U R S E S Y L L A B U S

Course Number:	CSCI 374-001	Course Title:	Mobile Application Development
Course Time:	TR 3:30 - 4:45PM	Location:	Baron-Forness Library 114
Semester:	Spring 2019	Credit Hours:	3
Professor:	Amanda Porter aporter@edinboro.edu	Office:	Ross 146/Porreco 006

Office Hours:

Monday 2:00 – 3:00PM (Porreco)
Tuesday 1:00 – 2:00PM (Main)
Wednesday 2:00 – 3:00PM (Porreco)
Thursday 12:00 – 2:00PM (Main)
(Other times by appointment)

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Course Description

This course introduces students to mobile application design and development while utilizing Software Development Kits (SDKs) to develop mobile applications. Students will learn user interface design in combination with event driven programming. An overview of required programming languages and the SDK tools will be covered along with object-oriented development, source code control and testing. Prerequisites CSCI 330, CSCI 313. Must have earned a “C-” or better in all prerequisite course(s).

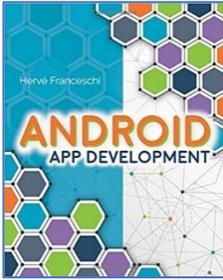
Course Learning Outcomes

- Successful completion of this course will be based upon the following objectives:
1. Demonstrate an understanding of the mobile application development process.
 2. Demonstrate an understanding of mobile application design principles.
 3. Demonstrate an understanding of the required programming languages as related to mobile application development.
 4. Use the SDK and other development tools.
 5. Develop a mobile application that employs design principles and adheres to mobile standards.
 6. Demonstrate an understanding of mobile application dissemination.

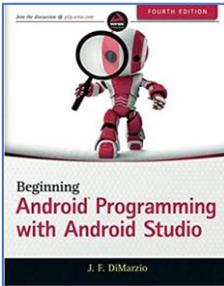
Course Outline

The detailed course calendar is located at: <http://aporter.cs.edinboro.edu/csci374/spring2019/001/>

Required Textbook & Materials



Android App Development, 1st Edition
Hervé Franceschi



Android Programming with Android Studio, 4th Edition
Jerome DiMarzio

1. You are required to purchase the above textbooks which need to be brought to all class meetings.
2. You will need access to the Android Studio software to complete assignments and projects.
3. You will receive a Lenovo 4 10 Android Tablet to develop, test, debug and present mobile applications – an emulator may also be used within Android Studio.
4. You will need to create a free developer account on GitHub for source code control.

Optional

1. You may need to create a developer account on Google Play (one-time \$25 fee) for mobile application dissemination.

Course Requirements

Grades will be based on:

Attendance/Participation	10% of your grade
Homework & Projects	40% of your grade
Exams	20% of your grade
Final Project	30% of your grade

Grading Scale:

93-100	A	73-76	C
90-92	A-	70-72	C-
87-89	B+	67-69	D+
83-86	B	63-66	D
80-82	B-	60-62	D-
77-79	C+	0-59	F

Course Schedule

WEEK	TOPIC
1	Introduction & Basics of Android
2	Basics of Android, Version Control, & Model View Controller, GUI Components, Events
3	Model View Controller, GUI Components, Events
4	Coding the GUI Programmatically & Layout Managers
5	Mobile App Design Principles
6	Multiple Activities, Passing Data between Activities, Transitions & Persistent Data
7	EXAM 1 Menus & SQLite
8	SPRING BREAK
9	Menus & SQLite
10	Touches & Swipes
11	Graphics, Animations, Sounds & Gaming
12	Fragments
13	EXAM 2 Managing Device Orientation
14	In-App Advertising
15	Mobile App Publication & Distribution
FINALS WEEK	Final Project Presentations

General Expectations:

1. Attendance is imperative. You are required to be in class from start to finish and engaged in the course content. Poor class attendance may result in a lower final grade. Attendance for examinations is mandatory. Exam dates have been posted on my course outline web page and also in D2L.

The final exam will be given on **Thursday May 2nd, 2019 from 12:30-2:30PM**. There will be **NO** exceptions to the scheduled date and time.

I am the instructor of record for this class. Only the instructor of record can properly grade coursework and issue midterm and final grades.

2. If you require accommodations for test-taking from the Office for Students with Disabilities (OSD), please provide the appropriate accommodation documentation during the first week of the semester. You must also provide a test accommodation form for each test in which the accommodation will be required. This documentation should be provided to me at least one week prior to the scheduled exam.

3. All assignments will be given a due date. Students are expected to turn the assignments in by the due date. Late assignments will not be graded. There will be no exceptions to this policy. The timeline and due dates for assignments and exams for this course may need to be adjusted for severe weather events or other unforeseen circumstances.

4. All projects are expected to be done by the individual, unless otherwise directed. Cheating will not be tolerated and will result in a **failing grade for the class AND referral to Judicial Affairs**. I will entertain NO excuses for cheating.

5. In order to complete your assignments, it will be imperative that you gain access to a computer containing Android Studio and GIT. Allow yourself some time outside of class to work on the assignments.

6. **A note about classroom behavior:** It is expected that you attend class for the entire period, pay attention and follow along with the lecture before attempting the homework projects. Make sure CELL PHONES and other electronic devices that make noise are turned off during class. The class meets in a computer lab and while there, I expect your complete attention during lectures. You should not be using the computer for any reason during lectures unless I have instructed you to do so.

7. Some lecture notes will be provided; however, it is expected that you are to take notes and pay attention during class time. It is also expected that you will read the chapter from the textbook prior to the material being covered in class. These two things will help you to better understand and engage in the material.

8. I will take attendance daily as required by the University and will follow the University's policy regarding absences. It is your responsibility to notify and verify excused absences with me.

9. If you are struggling with the material in the class, please make a point to visit me during my office hours or make an appointment to receive additional help. It is not wise to wait until after midterms to try and “rescue” your grade.

10. I will use D2L to communicate with you outside of the regular class time. It is imperative that you check D2L frequently, and I assume that you receive any message posted from me within 12 hours of it being sent.

Title IX Reporting Requirements and the Faculty Member

Edinboro University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University's Title IX Coordinator. The only exceptions to the faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project. Faculty members are obligated to report sexual violence or any other abuse of a student who was, or is, a child (a person under 18 years of age) when the abuse allegedly occurred to the person designated in the University protection of minors policy.

Information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence is set forth at: <http://www.edinboro.edu/directory/offices-services/social-equity/sex-discrimination-sexual-misconduct/>

Office of Social Equity
Reeder Hall, Third Floor, 219 Meadville Street, Edinboro, PA 16444
814-732-2167

Other Course-related Policies at Edinboro University

Student Disability Accommodations

Edinboro University of Pennsylvania offers services to meet the accommodation needs of students with many types of disabilities. The Office for Students with Disabilities (OSD) provides services to students based upon documentation of a disability and a request for accommodations based on this disability. Please refer to Edinboro University Policy A008 (Reasonable Accommodations for Students with Disabilities) which may be found at the following link: [http://www.edinboro.edu/directory/offices-services/hr/policies/documents/A008%20Reasonable%20for%20Students%20with%20Disabilities%20\(04.01.2013\).pdf](http://www.edinboro.edu/directory/offices-services/hr/policies/documents/A008%20Reasonable%20for%20Students%20with%20Disabilities%20(04.01.2013).pdf). This policy is in compliance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973.

Office for Students with Disabilities
Crawford Center, 200 Glasgow Road, Edinboro, PA 16444
814-732-2462

Academic Integrity

It is expected that all work submitted through this course is the student's original work, generated for the express purpose of completing the requirements of this course. All papers submitted in this course may be screened for originality using Turnitin's plagiarism detection software. This software checks submissions for text matches, Web content, books including classic works of literature, and newspapers, magazines and scholarly journals. Students are to be aware that academic dishonesty is not tolerated in this course and should be familiar with the following definitions:

Cheating. Behaviors including, but not limited to, use of unauthorized notes or reference materials during examinations; copying answers from another student's paper during an examination; the unauthorized possession of academic materials, including exams; the unauthorized exchange of course assessment materials, including exams; the unauthorized exchange of information or collaboration regarding tests, or other course assignments; aiding another to engage in cheating; and/or all other acts of academic dishonesty that any member of this academic community would reasonably understand to be a breach of this academic integrity statement will be considered cheating and an act of academic dishonesty.

Plagiarism. Plagiarism may be defined as the act of taking the ideas and/or expression of ideas of another person and representing them as one's own. This includes, but is not limited to, using ideas or passages from a work without properly attributing the source, paraphrasing the work of another without giving proper credit, and/or the sale, purchase, or exchange of papers or research. It is the student's responsibility to know what plagiarism is and to properly cite the work of others. If a student is in doubt, it is their responsibility to resolve any ambiguity prior to submitting the work. Plagiarism is nothing less than an act of theft, and, as such, is subject to University disciplinary action.

Potential sanctions associated with academic dishonesty may be found in the University's Student Code of Conduct and Judicial Procedures at the following link:

<http://www.edinboro.edu/directory/offices-services/judicial-affairs/STUDENT-CODE-OF-CONDUCT-Feb2016.pdf>.

Edinboro University Class Attendance Policy

Key elements of this policy include the following. Students are expected to attend each and every class meeting in its entirety, and faculty members shall maintain a record of classroom attendance. Each student is responsible for verifying his or her attendance when arriving late to class and/or justifying early departure. Class absences are excused for medical reasons, university activities approved by the appropriate vice president or designee, and/or for personal exigencies. University activities appropriate to be considered as an excused absence include but are not limited to: scheduled athletic events, cultural events, academic competitions, etc., in which the student is a participant. Other appropriate situations include: military duties, auto accidents, death in immediate family, medical emergencies. Verification of such absences may be required by the instructor, and the student is responsible for make-up work as required by the instructor. The complete policy may be found at the following link:

<http://www.edinboro.edu/directory/offices-services/hr/policies/documents/A062%20Class%20Attendance%20Policy%20Rev.%2010.10.2017.pdf>.