



Mobile Application Development - 22543 - CSCI 405 - 001 - Fall 2016

2:00 pm - 3:15 pm TR Wubben Hall and Science Center 118

Aug 22, 2016 - Dec 15, 2016 Lecture Warren MacEvoy

Instructor and Communication Information

Instructor	Dr. Warren D. MacEvoy
Office	WS 119F
Phone	970-248-1070 email is preferred.
Email	wmacevoy@coloradomesa.edu - have a clear subject line!
Office Hours	1:00-1:50 Monday - Friday in WS 119F
Communications Policy	I check email daily. You must have a clear subject line or I will probably skip the email.
Assignment Grading and Feedback	The instructor will attempt to return grades and feedback on your assignments within two weeks after the due date. Since these assignments are large virtualized systems, your assignment will often come from a demonstration of the configured system(s).

Course Information

Course Title	Mobile Application Development - 22543 - CSCI 405 - 001 - Fall 2016
Class Time	2:00 pm - 3:15 pm TR
Classroom	Wubben Hall and Science Center 118
Prerequisites	CSCI 250, CSCI 337 or CSCI 206, or permission of instructor

General Education Requirements	<i>None.</i>
Drop Date	October 17
Credit Hours	3 (45 contact hours)
Lecture Hours	3
Lab Hours	0
Other Hours	0

Course Catalog Description

Application development on mobile platforms, such as smartphones and tablets. Topics include understanding hardware, application API's, marketplaces, and programming languages for these platforms. Prerequisites: CSCI 250, CSCI 337 or CSCI 206, or permission of instructor.

Lecture

Required Text and Supplies

I strongly recommend that you set up version control (preferably github) for management of your development and add me as a collaborator (wmacevoy github user) so I can see your work there. Projects are otherwise managed on the K: drive. If you wish to develop an iOS application, you will need a Apple development computer with a recent version of the OS and XCode. For both android and iOS a device is not strictly necessary, but is useful for testing your applications. The Android Studio IDE is cross platform, but you will want a fairly fast computer to use it and the emulators.

Lesson/Instructional Materials

We will use Android Studio for the main mechanism to demonstrate mobile application development. You will use many online resources in this class, and you will be expected to learn and use tools independently.

Learning Objectives

We will talk about the landscape of mobile application development, including web, iOS, and Android as well as cross platform and application specific tools (like unity), as well as Swift, Objective C. Mostly we will use Android/Java to demonstrate application development. The major goal is for you to develop a mobile application of some kind.

Methods of Evaluation/Grading Policy

Grade Items	Percent (or points if not using weighted categories) of Final Grade
Projects	50%
Final Project	25%
Tests	25%

GRADING	SCALE
A	90 -100%
B	80 - 89%
C	70 -79%
D	60 - 69%
F	Under 60%

Assignments

Project grades: Working 50%, Design 40%, Patina 10%

Testing

We will have some written concept tests that may involve in-class coding or pseudo-coding.

Supplemental Help

If you wish to discuss academic accommodations, please contact me as soon as possible. Specific information about Educational Access Services and the Tutorial Learning Center is included under General Student Services in this Syllabus.

Attendance Policy

Let me know ahead of time if you can't be here for a due date.

Course Correspondence

All communication in this course will be made via your CMU email account. Please include the title of the course and section number in the subject line (i.e, CSCI 405 - useful subject line) Check your email regularly throughout the semester. I will respond within 48 hours.

Plagiarism and Academic Integrity

Academic dishonesty is the intentional act of fraud, in which an individual seeks to claim credit for the work and efforts of another or uses unauthorized material or fabricated information in any academic exercise. Academic dishonesty also includes, but is not limited to: (1) Forgery/fabrication/falsification/plagiarism of academic documents; (2) Intentionally impeding or damaging the academic work of others; (3) Assisting others in acts of academic dishonesty; (4) Cheating in the classroom; (5) Unauthorized attendance; (6) Multiple submissions; and (7) Unauthorized collaboration. Any academic misconduct may be reported to the Department Head and Office of Academic Affairs and may result in a failing grade, suspension, or dismissal.

These policies are outlined at:

http://www.coloradomesa.edu/academics/policies/academic_integrity.html

Netiquette

"Netiquette" refers to the etiquette by which you should abide when using online services for your classes and campus communications. This includes email, social media, online chat, blogs, online discussions or message boards, instant messages, etc. Although you are participating in course activities and using course materials online, the [CMU Student Code of Conduct](#) still applies. Online participants are expected to behave in a respectful manner that is supportive to other learners, participants, and faculty.

Online behavior should foster an environment that is productive and thoughtful. Netiquette provides guidelines for facilitating this positive atmosphere. Some basic principles of netiquette include:

- **Be respectful.** Remember that you are communicating with actual people. Be courteous and show respect, even if you have differences of opinion. Remember to treat others as you'd like to be treated.

Good manners apply online as well as in the traditional classroom.

- **Think before you post.** Follow posting directions and examples. Be aware of who may be able to view your posting, and how your post may be interpreted. Try to maintain a fair and objective tone.
- **Stay on topic.** Make sure your communication is related to the subject and does not wander off-topic. Ask questions that are appropriate and relevant to the topic. Keep academic discussions free of “chit-chat”.
- **Write clearly.** Even though the online environment may seem more informal than your face-to-face class, you are still in an academic course and mature communication is expected. Correct spelling and grammar are required. Proper sentence structure and punctuation should be used. Avoid abbreviations and “text speak.”
- **Use appropriate language and style.** Profanity or offensive wording is not acceptable. ALL CAPS and repeated punctuation (???? or !!!!) is considered rude and should be avoided. While it is okay to have robust discussions and differences of opinion, avoid inflammatory wording ‘flaming’ that might start arguments. To disagree, use language that encourages intelligent discourse and discussion. Ignore statements by others that appear inflammatory.
- **Be considerate of others.** Do not make derogatory, condescending, or harassing remarks. Communication should be well-intentioned and well-articulated. It should foster a positive learning environment. Be aware of how sarcasm may be misinterpreted by your readers. Bullying, threatening, or abusive language will not be tolerated.
- **Allow for misunderstandings.** Keep in mind that writing can often convey the incorrect tone or intention. Make allowances for unintended rudeness or misunderstanding.
- **Cite your sources.** If you post work that is not your own or contains work that is not your own, be sure to reference your sources.
- **When in doubt, do not send or post.**

Technology & Technology Skill Requirements

You will need basic computer skills and should be comfortable using a word processing program, browsing for files, and copying and pasting between programs. You will need a computer that connects to the Internet. Your username and password are required for access. If you do not own a computer or if your computer malfunctions during the term, you will be expected to identify a computer to use. Technology issues are not an excuse for missed or late work.

Colorado Mesa University strongly prefers students use the following technology minimums: DSL/Cable modem and high-speed Internet connection, Microsoft Windows XP or later, Microsoft Office 2003 or later, and Java Runtime Environment 7.

Technical Help

If you experience a technical problem, call the Help Desk at (970) 249-2111 to receive technical support in the following areas:

- Usernames and passwords
- Desire2Learn
- MavZone
- Microsoft Office products
- Connecting to the wireless network
- Desktop computer hardware installation and troubleshooting
- Desktop software installation and troubleshooting
- Network file storage

For more information, visit the CMU Help Desk website at: <http://coloradomesa.edu/it/helpdesk.html>

Withdrawal Statement

Regular class attendance is expected. CMU is required by law to verify the enrollment of students who participate in Federal Title IV student aid programs and/or who receive educational benefits through other funding sources. CMU is responsible for identifying students who have not attended or logged into a class for which they are registered. At the conclusion of the first week of a semester, instructors will report any registered students who have "Never Attended" a class so that those reported students will be administratively withdrawn from that class. However, it is the student's responsibility to withdraw, using the appropriate CMU form, from any class which she/he is no longer attending or risk receiving a failing grade in that class. Student's wishing to withdraw must complete and submit the appropriate CMU form by the established withdrawal deadline.

General Student Services

Educational Access Services: If you are a student with a documented physical or learning disability and need an accommodation for this class, you must contact the Educational Access Services Office, 248-1801, at the start of the semester.

- The **Tutorial Learning Center (TLC)** is a **FREE** academic service for all Colorado Mesa University students. Tutors are available on a walk-in basis for many courses. Do you have a quick question? Do you need homework clarification or feedback on a paper? Are you reviewing for a test? Help is available at the TLC!

At the main campus, come to Houston Hall 113 to meet with one of our friendly peer tutors. We are open on Monday through Thursday from 8am-6pm and Fridays from 8am-5pm. We are also open Sundays from 1pm-6pm! Tutoring at branch campuses and distance tutoring is also available. Check out the website for schedules and locations at www.coloradomesa.edu/tutoring or call (970) 248-1392 with any questions.

- **Research Assistance at the Tomlinson Library:**

CMU's professional librarians are an excellent resource for helping you to find the best research to support your academic work, evaluate articles and electronic information, and cite the articles and images that you use in your papers. We are here for you!

Find us: in the Library at the Research Help Desk Mon-Thurs 8am-9pm, Fri 8am-5pm, Sat 10am-5pm, and Sun 1-9pm; via online chat 24/7 at coloradomesa.edu/library; by email at library@coloradomesa.edu; or by calling 970.248.1860.

- **Student Services:** The Office of Student Services works to support CMU students in all aspects of college life, by offering a vast array of services, resources and programs that make each student's time at Colorado Mesa University as exciting and successful as possible. Student Services works collaboratively with faculty, students, and staff to create a campus community that fosters the growth of students as strong individuals and productive citizens. To learn more, go to <http://www.coloradomesa.edu/studentservices>.
- **Financial Aid:** Financial aid staff is dedicated to assisting you in sorting through the various forms of student financial aid. We believe that by helping you take advantage of a variety of available resources, you will find an education at Colorado Mesa University is attainable. Our office is located in the lower level of Lowell Heiny Hall, Room 116. Our phone number is (970)248-1396, or you may contact us via email at financialaid@coloradomesa.edu
- **Advising Center:** Advisors can assist students with course selection and registration, major exploration, and identifying strategies for academic success. The Advising Center is committed to promoting academic success and in facilitating students to attain their educational goals. We are located in Lowell Heiny Hall, on the lower level, room 127. Our phone number is (970)248-1177, or toll free at 1-800-982-6372 (option #7 or extension 1177). Our FAX number is (970)248-1267. You can also reach us via email at advising@coloradomesa.edu Appointments are scheduled from 9:00 to 4:00, Monday through Friday. Please call a week or two in advance of your desired appointment date to schedule. Bring your picture ID, as failure to do so may result in a rescheduled appointment.

- **Business and Financial Services Office:** The Business and Financial Services Office is located in the lower level of Lowell Heiny Hall. Our staff is available to assist you Monday through Friday from 8:00 am to 5:00 pm, MST. Our phone number is (970)248-1567, our FAX number is (970)248-1136, or you may contact us via email at businessoffice@coloradomesa.edu

Course Schedule

Week	Tue	Thu
21-Aug	2016 23-Aug 1	2016 25-Aug 2
28-Aug	2016 30-Aug 3	2016 01-Sep 4
4-Sep	2016 06-Sep 5	2016 08-Sep 6
11-Sep	2016 13-Sep 7	2016 15-Sep 8
18-Sep	2016 20-Sep 9	2016 22-Sep 10
25-Sep	2016 27-Sep 11	2016 29-Sep 12
2-Oct	2016 04-Oct 13	2016 06-Oct 14
9-Oct	2016 11-Oct 15	2016 13-Oct 16
16-Oct	2016 18-Oct 17	2016 20-Oct 18
23-Oct	2016 25-Oct 19	2016 27-Oct 20
30-Oct	2016 01-Nov	2016 03-Nov

	21	22
6-Nov	2016 08-Nov 23	2016 10-Nov 24
13-Nov	2016 15-Nov 25	2016 17-Nov 26
20-Nov	2016 22-Nov *Thanksgiving*	2016 24-Nov *Thanksgiving*
27-Nov	2016 29-Nov 27	2016 01-Dec 28
4-Dec	2016 06-Dec 29	2016 08-Dec 30
11-Dec	2016 13-Dec *Finals*	2016 15-Dec *Finals*

Course Topics

Git / Android Studio / Hello World
 Android Application Lifecycle.
 Android Java
 iOS