CSEE 5590-0003/COMP-SCI 490-0002: Web/Mobile Programming

Spring 2022 | University of Missouri-Kansas City | School of Computing and Engineering |Applied Programming Learning Series| **On-Campus**

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Instructor and TA details:

Instructor: Alanazi, Ahmed Hamdan
Email: aha85b@umkc.edu
Office Hours: Thu. 2:00 pm-3:00 pm CST
Location: Zoom - https://zoom.us/j/8810409240?pwd=R0JEYjRMZ1JibG14M3hSc2gvT2NZUT09

Teaching Assistant: Cheng Shu
Email: cs833@mail.umkc.edu
Office Hours: Mon. 8:00 am-9:00 am CST
Location: Zoom -
https://umsystem.zoom.us/j/3604469999?pwd=V1AzLzlDREd0dWxWb1N2Kzc4VnFrUT09

Course Time and Location

Time: Mon. 5:30 pm-8:30 pm CST
Location: Flarsheim Hall-Rm 00310
Credits: 3 Credit Hours
The instructor and TAs will be available to help you to finish the assignments.

Description

APL Description: Each course in this APL series is for a graduate student and undergraduate (Senior) in the School of Computing & Engineering (SCE) who want to build programming skills in a specialized area. Students must have permission to enroll in any course of this series. This series's courses will count to 3 credit hours toward fulfilling the course requirement for students' degrees at SCE.

Web/Mobile Programming Course Description: This course teaches students how web technologies (Part 1) and mobile technologies (Part 2) work and how to apply them to applications. Students will build applied programming skills using case studies for web and mobile applications (using web services for recognition and analysis of image, speech, sensor, social network trends, etc.).

- Part 1 (Week 1 - 8): Programming for Web App for Web application using HTML/CSS/JavaScript/ReachJS & MEAN Stack (MongoDB, Express.js, Angular, and Node.js). We will also introduce React.
- Part 2 (Week 9 - 16): Programming for Mobile App (Android OS & React Native) to learn the foundations of mobile platforms and techniques. Understand how to build a mobile application using knowledge APIs (speech recognition, object recognition, GPS/map, movement recognition, etc.), and learn how to lead successful mobile application projects. Mobile applications will build using Java programming with Android Studio and SDK Tools.

Prerequisites

Prior knowledge and experience with any Programming will be helpful. A willingness to research and explore the given resources will be essential!

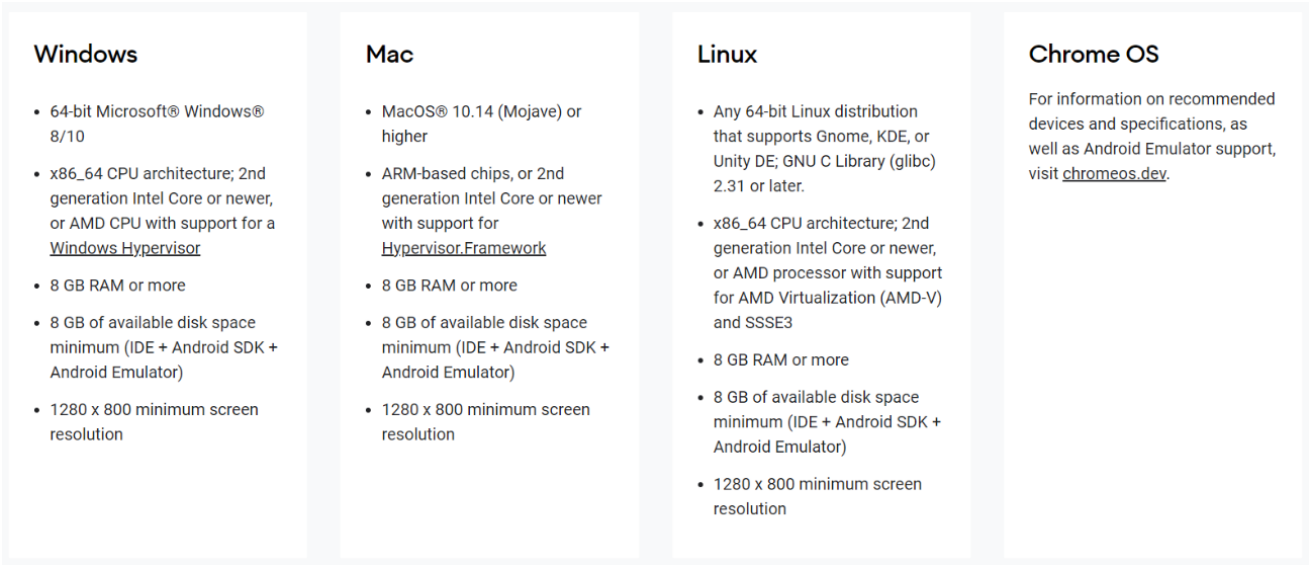
Required Textbook

The textbook is not necessary for this course as technology is rapidly changing. We will use online resources for this course.

Course Structure

You can find the course details on the UMKC Canvas site, which you can find here: http://online.umkc.edu/lms/. First, please navigate to the Start Here page on the Canvas site for this course. Inside the Start Here folder, you will find the syllabus and a video to steer everything in the course. I have also posted a video that will describe this course's purpose, the assignments, and course grading policies.

System Requirements



Windows

- 64-bit Microsoft® Windows® 8/10
- x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor
- 8 GB RAM or more
- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)
- 1280 x 800 minimum screen resolution

Mac

- MacOS® 10.14 (Mojave) or higher
- ARM-based chips, or 2nd generation Intel Core or newer with support for Hypervisor.Framework
- 8 GB RAM or more
- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)
- 1280 x 800 minimum screen resolution

Linux

- Any 64-bit Linux distribution that supports Gnome, KDE, or Unity DE; GNU C Library (glibc) 2.31 or later.
- x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD processor with support for AMD Virtualization (AMD-V) and SSSE3
- 8 GB RAM or more
- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)
- 1280 x 800 minimum screen resolution

Chrome OS

For information on recommended devices and specifications, as well as Android Emulator support, visit chromeos.dev.

Technology Requirements

You are expected to have the computing resources necessary to complete this course through personal, University channels (e.g., remote computer labs), or both. Please contact me if you will be without email access for a short-term basis during this course. We can make alternate arrangements should your reason for being without computer access warrant accommodation (note: travel for vacation/work does not necessitate accommodations).
Below is a list of some helpful computer requirements for full participation in this online class:

- The latest version of GitHub Desktop at https://desktop.github.com/
- The latest version of WebStorm IDE at https://www.jetbrains.com/webstorm/
- The latest version of Java is available at http://www.java.com/en
- The latest version of JDK for your OS at http://java.oracle.com
- The latest version of Android Studio at https://developer.android.com/studio
- A current word processing software
- A headset with a microphone
- A webcam
- Internet Explorer, Chrome, or Firefox for Windows computers
- Firefox, Chrome, or Safari for Apple computers
- A Broadband Internet connection is preferred. Examples of broadband Internet connection are high-speed DSL or a Cable modem

Learner Support

Students can get technical support from Instructional Technology Services either by calling 816-235-6700, emailing its@umkc.edu, or using the chat tool. https://online.umkc.edu/support-policies/

Participation Policies

This course is **not designed** to be self-paced. Rather, you are expected to participate in class activities along with the group. At the same time, I recognize that there might be times during the semester that you need to complete work in advance to meet other life demands.

Course Etiquette, Participation, and Canvas

Like other courses, you are expected to communicate with your peers and me professionally, thoughtfully. In this course, there may be opportunities for academic debate. This is encouraged, as it helps us grow as learners. Remember, however, to communicate with respect and mindfulness even when disagreements arise. As an instructor, I will offer corrective feedback if I observe unhelpful communication.
Tips for Course Success

- During the first week,
    a. Review the material on the start here/home page and email me if you have questions.
    b. Read the syllabus and explore the course Canvas site -- email me if you have questions. I am happy to schedule a Zoom meeting with you if you have difficulty using the Canvas tools.

- Do not work too far in advance or conceptualize this as a "self-paced" course. You will get more out of it if you participate fully in course assignments the week due.

Course Time Commitment

Both in-person and online, courses can be varied in their design and expectations for student involvement and time. If this course were taught face-to-face during the 16-week session, one would expect to be in class (engaged in lecture and discussion) for approximately 3 hours/week and spend additional time outside of class in preparation for active course engagement and course assessment (reading, completing assignments). So, you should be prepared to spend similar amounts of time engaged in this course. In traditional face-to-face learning environments, you should anticipate that you will experience less time in passive learning activities (i.e., lectures). And more time engaged in active learning activities and communication with your peers and me (i.e., In-class programming (ICPs), Quizzes via Zoom, Proctorio, and discussion board postings).

Expectations of Faculty in this Course

I will aim to respond to all email and voicemail questions within 48 hours. Questions that are posted to the General Questions Discussion Board will be answered within 24 hours. Weekly assignments will typically be graded by Monday of the following week. Exams, in general, will have a two-week grading turn-around timeframe. Individual feedback will be provided for some assignments, and group feedback will be provided for some assignments.

The SCE Chain of Command for students

If you encounter a problem and wish to speak with someone besides the instructor, below is the chain of command for SCE

1. Professor/Instructor (Dr. Yugyung Lee)
2. Advisor (Coretta, Darian or Erin)
3. CSEE Program Coordinator (Gina)
4. CSEE Department Chair (Dr. Chowdhury)
5. CSEE Assistant Dean of Student Affairs (Marjory Eisenman)
6. SCE Dean (Dean Truman)

University of Missouri-Kansas City Mission

UMKC's mission is to lead in life and health sciences; to deepen and expand strength in the visual and performing arts; to develop a professional workforce and collaborate in urban issues and education, and to create a vibrant learning and campus life experience.

School of Computing and Engineering History and Mission

History

The University has offered engineering degree programs since 1956. Increased technology demands during the mid-80s, combined with a generous gift from United Telecom (now Sprint), led to the development of UMKC's high-tech Computer Science and Telecommunications Program in 1984. These programs were combined in 2001 to form the School of Computing and Engineering (SCE).

Mission
The mission of the Department of Computer Science Electrical Engineering (CSEE) is to provide competitive educational opportunities and focused research in the disciplines supported in the department to generate the professional and technical workforce and research needed for economic development. To accomplish this mission, the department seeks to:

- Conduct research that advances knowledge in these disciplines and their applications.
- Educate and graduate students who are knowledgeable about these disciplines who become lifelong learners and leaders.
- Engage in service and outreach to enrich the community, state, and profession.

Intended Learning Outcomes/Objectives

After finishing this course, you will be proficient in web and mobile programming

1. Complete the weekly In-class programming assignments (ICPs)
2. Complete quizzes
3. Complete Two ICP Presentation for each group
4. Complete project-based exam

Assignments

In-class programming (ICP)

1. 14 ICPs for the course - 100 points each/1400 points total
2. You will have one ICP for each lesson
3. The purpose of the ICP is to get hands-on experience with the current lesson's programming topics/concepts
4. ICP is an individual contribution or group of up to two students. However, you can take help from your team for the ICP
5. Solve the given programming assignment
6. Create a report .pdf and describe the way you solved the assignment. The report should include the below list but not be limited to them
    a. Title
    b. Description
    c. Screenshots
    d. Important code snippets
    e. Learnings from the lesson
    f. Issues with the lesson
7. Present your work in class to the instructor or teaching assistant before you leave
8. Submit the Feedback form with GitHub link of your codes and report on Canvas

ICP Submission Guidelines

1. ICP submission is an individual contribution or group of up to two students
2. Submit your source code and documentation (report) to GitHub and represent the work through the report accurately (submit your screenshots as well. The screenshot should have both the code and the output)
3. Comment your code appropriately

4. Present your work in class to the instructor or teaching assistant before you leave
5. Submission after the due date is considered a late submission. (Check the Late Submission Policy on Assignments' in the syllabus)
6. Use the related Canvas survey to submit your ICP # and feedback

ICP Presentation

1. Two ICP presenations for each team - 100 points each/200 points total
2. Team or individual will prepare a short presenation
3. ICP presenations will have three minutes to be presented at the end of each class

Quiz

1. Two quizzes for the course - 30 points each/60 points total
2. You will have one quiz for each part
3. The purpose of the quiz is to help you to revise the content quickly you have learned from the lessons
4. The quiz is an individual contribution
5. It consists of multiple-choice questions (MCQs) from the specific module

Quiz Submission Guidelines

1. The quiz will be available in the Canvas
2. You will have to take the quiz at the specified time.
3. If you are not taking the quiz, you will not get the credit
4. There will not be any makeup quiz in case if you miss one of the quizzes

Project-based Exam

1. One project-based exam for the course - 100 points total
2. You will have one exam for this course
3. The purpose of the exam is to improve and implement the programming concepts learned from the lesson to solve the real-world problems
4. You should be able to develop web or mobile applications for the exam. Specific guidelines will be provided later in the course
5. The exam is a team contribution
6. Solve the given exam programming assignment with your team
7. Create a GitHub wiki page and describe the way you solved the assignment. The wiki page should include the below list but not be limited to them
    a. Title
    b. Description
    c. Screenshots
    d. Important code snippets
    e. Learnings from the exam
    f. Issues with the exam
8. Make a simple video about 3 to 5 minutes, which includes execution of the application and explanation of code snippets

9. Submit the Feedback form with GitHub wiki page and Video links along with the feedback for the exam

Project-based Exam Submission Guidelines

1. The exam is submitted by a team of four students assigned at the beginning of the semester.
2. Submit your source code and documentation to GitHub and represent the work through the wiki page accurately.
    a. Include your screenshots as well. The screenshots should have both the code, documentation, and output.
3. Document your code appropriately.
4. Video submission (3 to 5 min video showing the project's demo, with brief voiceover on the code explanation).
5. Submit a report to Turnitin on Canvas, and the similarity score should be less than 15%.
6. Submit code to Turnitin on Canvas, and the similarity score should be less than 35%.
7. Submission after the due date is considered a late submission. (Check the Late Submission Policy on Assignments in the syllabus.)
8. Use the corresponding Canvas survey to submit your exam and feedback.
9. The report should include the below details:
    a. Project Title and Team Members
    b. Goals and Objectives:
        - The motivation behind the idea
        - Significance
        - Objectives
        - Features
        - Approaches/Methods
    c. Workflow
    d. Working screens from project
    e. If deployed into the cloud, provide the link
    f. GitHub link for your project
    g. Work sharing/Module sharing between teammates
    h. Any issues, blockages with the project
    i. References
    j. Conclusion

Project-based Exam Presentation Guidelines

1. Your team should be available to present with
    a. The presentation slides
    b. The working demo
2. Your team will have 10 minutes to present
3. Q&A on your project-based exam for each individual in the team

Hack-A-Roo Participation

1. Your team must attend the event on April 8 for full credit
2. Your team will have to participate in this event by submitting the project
3. More information visit https://info.umkc.edu/hack-a-roo

Late Submission Policy on Assignments

Assignments that submitted after the due date will no longer be accepted

1. '-10' points for one day late submission with permission/exception
2. '-20' points for two days late submission with permission/exception
3. '-30' points for three days late submission with permission/exception
4. No submission will be allowed after three days, even with permission/exception

DO NOT EMAIL your work to TAs. Always use the appropriate form to submit, and your work should be original and independent

Grading Summary

Assignment	Contribution	% of the final grade	Point Value
Project Report (4) and Exam (1)	Team	35%	100 points
ICPs (14)	Team	30%	100 points each
Quizzes (2)	Individual	20%	30 points each
ICP Presentations (2)	Team	10%	10 points each
Hack-A-Roo Participation	Team	5%	100 points
Total		100 %	

Grading

A ≥ 94.0%	C ≥ 74.0%
A- ≥ 90.0%	C- ≥ 70.0%
B+ ≥ 87.0%	D+ ≥ 67.0%
B ≥ 84.0%	D ≥ 64.0%
B- ≥ 80.0%	D- ≥ 60.0%
C+ ≥ 77.0%	F < 60.0%

Course Schedule

The following is the proposed course schedule. The schedule may change due to unforeseen circumstances. Please check the Canvas course site for the most current and up to date information

Module One: January 18 – January 28				
Lesson Outline	**Purpose**	**Reading Materials**	**Assignment**	**Due Dates (by 11:59 pm CST)**

Lesson1: Introduction to the tools that will use in the course	You will learn GitHub, repository, fork, branch, pull requests, creating issues, and be familiar with GitHub and WebStorm.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP1	January 24, 2022
Lesson2: HTML and CSS	You will learn how the Internet work, HTML elements, attributes, CSS selectors, box model, and flex. Able to create an HTML page. And you will learn how CSS will be helpful to beautify your simple web page.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP2	January 24, 2022

Module Two: January 31 – February 11				
Lesson Outline	**Purpose**	**Reading Materials**	**Assignment**	**Due Dates (by 11:59 pm CST)**

Lesson3: Basics of Bootstrap, Grid Layout in Bootstrap, fundamentals of RWD (Responsive Web Design) and some JS, Calculator using JavaScript	You will learn Bootstrap, responsive web design, Grid Layout in Bootstrap, JavaScript, DOM, JavaScript programming elements. You will work on the calculator web application using Javascript.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP3	January 31, 2022
Lesson4: Object-oriented JavaScript, jQuery, AJAX, accessing APIs with jQuery, Hangman game using JavaScript and APIs, and To-Do List using jQuery	You will learn Objected Oriented JavaScript, Prototype, jQuery, jQuery selectors, AJAX, and RESTful API. You will be able to use API.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP4	February 7, 2022

Module Three: February 14 – February 25				
Lesson Outline	**Purpose**	**Reading Materials**	**Assignment**	**Due Dates (by 11:59 pm CST)**

Lesson5: Angular: Components, String Interpolation, Property Binding, Event, and two-way Data Binding, NgModules and Directives	You will learn Angular, Importance of Angular, TypeScript Datatypes, TypeScript Namespaces, Elements of Angular, Components, String interpolation, Property Binding, Event, and two-way data binding, NgModules. *We will also introduce React.*	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP5	February 14, 2022
Lesson6: Angular: Routers, services, HTTP, and RESTful APIs	You will learn Angular Routing, Angular Services and Dependency Injection, REST, Angular Http Client, Requirements to access APIs. *We will also introduce React.*	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP6	February 21, 2022

Module Four: February 28 – March 11				
Lesson Outline	**Purpose**	**Reading Materials**	**Assignment**	**Due Dates (by 11:59 pm CST)**

Lesson7: Node.js: MongoDB, NodeJS and MEAN stack, App using MEAN Stack	You will learn MEAN, Node.js, Node.js modules, Node.js packages, Express Framework, MongoDB, and CRUD operations. You will also learn blocking and non-blocking io. *We will also introduce React.*	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP7	February 28, 2022
Pre - Exam	Web/Mobile Programming	From Lesson1 to Lesson7	Quiz1 and Presentation	March 7, 2022

Module Five: March 14 – March 25				
Lesson Outline	**Purpose**	**Reading Materials**	**Assignment**	**Due Dates (by 11:59 pm CST)**

Lesson8: Introduction, history, Android Architecture, Code Structure, Manual Login, Social Login	You will learn Android architecture, how android works, the activity life cycle, and deploying the application.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP8	March 14, 2022
Lesson9: Understanding the basics of android, Coffee Ordering app	You will learn Android Layouts, Views, Intents, and how to create a basic android application.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP9	March 21, 2022
Spring Break		**March 28 – April 3**		

Module Six: April 4 – April 15				
Lesson Outline	**Purpose**	**Reading Materials**	**Assignment**	**Due Dates (by 11:59 pm CST)**

Lesson10: RESTful Services, ListView, Adapter, Recycling, Multi-Threading, Async Task	You will learn RESTful Services, ListView, Adapter, Recycling Multi-Threading, Async Task, and able to create an application that uses an API.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP10	April 4, 2022
Lesson11: Accessing different components of the android system and sensors	You will learn how to access the Android hardware like Location/Maps, Camera, Media, Recorder/Audio, Device Storage, and understanding different sensors.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP11	April 11, 2022

Module Seven: April 18 – April 29				
Lesson Outline	**Purpose**	**Reading Materials**	**Assignment**	**Due Dates (by 11:59 pm CST)**

Lesson12: SQLite, History, Data Types, CRUD operation, Address Book, Firebase authentication, and Database	You will learn databases like SQLite, CRUD operations, and Firebase. And how to develop an application with those databases.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP12	April 18, 2022
Lesson13: Speech to Text, Text to speech, Medical assistant application, SMS Reader	You will learn how to use the Text to Speech and Speech to Text application in the android operating system.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP13	April 15, 2022

Module Eight: May 2 - 13				
Lesson Outline	**Purpose**	**Reading Materials**	**Assignment**	**Due Dates (by 11:59 pm CST)**

Lesson14: Adding the calendar to apps APK generation	You will learn how to use Calendar API and creating & deploying the APK files.	1. We will provide the necessary reading materials for each lesson in the Canvas discussion board and Lesson plan. (Link/Video/Articles) 2. Apart from that, you will have to follow the below resources for this lesson a. Lesson Plan b. Lesson Presentation c. Lesson Source code (.zip) d. Lesson Videos	ICP14	May 2, 2022
Final Exam	Web/Mobile Programming	From Lesson8 to Lesson14	Quiz2 and Presentation	Quiz (May 9, 2022) Presentations (May 9, 2022)

Rubric Detail

ICP

Criteria	**Novice**	**Competent**	**Proficient**
Report (15)	Basic Report. (>=0 to <=5)	Report with the required details. (>5 to <=10)	Report with all details and making it easy to follow and understand. Visually looking good. (>10 to <=15)
Presentation during class (20)	Basic Presentation. (>=0 to <=5)	Presentation with the required details. (>5 to <=15)	Presentation with all details and making it easy to follow and understand. Annotated with the subtitles. (>15 to <=20)
Completeness of given assignment (25)	It is partially solved. (>=0 to <=5)	Completely solved. (>5 to <=20)	It is solved efficiently. (>20 to <=25)
Code Quality (It is relative) (25)	Refer to the best coding practices page. (>=0 to <=5)	Refer to the best coding practices page. (>5 to <=20)	Refer to the best coding practices page. (>20 to <=25)

Commenting the code (10)	Not useful comments. (>=0 to <=5)	Slightly appropriate comments. (>5 to <=8)	Appropriate comments. (>8 to <=10)
Time of submission	Submission after the due date. Check the 'Late Submission Policy on Assignments' section in the syllabus	Submission on the deadline. No score will deduct from the obtained score.	Submission before the deadline. No score will deduct from the obtained score.
Submission (including feedback) (5)	Submission with partial details. (>=0 to <=3)	Submission with the essential details. (>3 to <=4)	Submission with all the details. (>4 to <=5)
Total	**Minimum = 0**		**Maximum = 100**

Quiz

Criteria	**Novice**	**Competent**	**Proficient**
Taking the quiz	The Canvas will grade MCQs based on your submission.	The Canvas will grade MCQs based on your submission.	The Canvas will grade MCQs based on your submission.
Time of taking the quiz	Not taking the quiz at a specified time. (0)	Taking the quiz at a specified time. No score will deduct from the obtained score.	Taking the quiz at a specified time. No score will deduct from the obtained score.

Exam

Criteria	Novice	Competent	Proficient
Wiki page/ Report (15)	The basic wiki page/ report not covering the details of the assignment. (>=0 to <=5)	Wiki page/Report with the required details. (>5 to <=10)	Wiki page/Report with all details and making it easy to follow and understand. Visually looking good. (>10 to <=15)
Video (20)	The basic video not covering the details of the assignment. (>=0 to <=5)	Video with the required details. (>5 to <=15)	Video with all details and making it easy to follow and understand. Annotated with titles. (>15 to <=20)
Report similarity (5)	>30%. (>=0 to <=3)	<=30%. (>3 to <=4)	<=15%. (>4 to <=5)
Completeness of given assignment (15)	It is partially solved. (>=0 to <=5)	Completely solved. (>5 to <=10)	It is solved efficiently. (>10 to <=15)
Code Quality (It is relative) (15)	Refer to the best coding practices page. (>=0 to <=5)	Refer to the best coding practices page. (>5 to <=10)	Refer to the best coding practices page. (>10 to <=15)
Commenting the code (5)	Not useful comments. (>=0 to <=3)	Slightly appropriate comments. (>3 to <=4)	Appropriate comments. (>4 to <=5)
Code similarity (5)	>50%. (>=0 to <=3)	<=50%. (>3 to <=4)	<=30%. (>4 to <=5)
Time of submission	Submission after the due date. Check the 'Late Submission Policy on Assignments' section in the syllabus	Submission on the deadline. No score will deduct from the obtained score.	Submission before the deadline. No score will deduct from the obtained score.
Submission (including feedback) (5)	Submission with partial details. (>=0 to <=3)	Submission with the essential details. (>3 to <=4)	Submission with all the details. (>4 to <=5)
Presentation - Content (5)	Information was valid but not explicitly related to the purpose of the assignment. (>=0 to <=3)	Most information is relevant; some topics needed expansion or shortened. (>3 to <=4)	All information was relevant and appropriate to the requirements of the assignment. (>4 to <=5)

Presentation - Use of technology (5)	Microphone and recording software is used, but too much background noise distracts the audience and limits audio quality. The volume of the speaker is low, making it difficult to hear the presentation. The speaker uses a webcam but may be out of focus or uses a cluttered, distracting background. Alternatively, the speaker fails to use a webcam. (>=0 to <=3)	Microphone and recording software is used, but not effectively. Audio quality is low, making it difficult to hear the speaker. The speaker uses a webcam but may have some distracting elements in the background. (>3 to <=4)	Effectively uses microphone and recording software to produce clear, reliable audio content. The speaker is in focus on the webcam and uses a neutral or uncluttered background. (>4 to <=5)
Presentation - Visual Aids (where appropriate) (5)	Slides, graphics, images, etc., have unclear organization and do not clearly apply to the central topic. Slides include a significant amount of text or too many graphics. Materials contain consistent grammar or spelling errors throughout the presentation. (>=0 to <=3)	Slides, graphics, images, etc., contain appropriate material, but too much text or too many images/graphics distract from conveying information effectively. Materials provide useful information for further consideration but may not directly relate to the central topic. (>3 to <=4)	Slides, graphics, images, etc., are professional and easy to read. Materials enable the speaker to focus on the presentation and provide the audience with important resources for later consideration. The flow is clearly established throughout the presentation from beginning to end. (>4 to <=5)
Total	**Minimum = 0**		**Maximum = 100**

Feedback

Criteria	Novice	Competent	Proficient
ICP submission (including feedback)	Submission with partial details. (>=0 to <=6)	Submission with the essential details. (>6 to <=8)	Submission with all the details. (>8 to <=10)
Exam submission (including feedback)	Submission with partial details. (>=0 to <=6)	Submission with the essential details. (>6 to <=8)	Submission with all the details. (>8 to <=10)

School of Computing and Engineering & University Policies

Resources & Policy Statements

https://info.umkc.edu/saem/wp-content/uploads/2016/04/UMKC-Student-Handbook.pdf

Academic Calendar

Students are encouraged to review important add, drop, or withdrawal dates: http://www.umkc.edu/registrar/acal.asp

Academic Honesty

The Board of Curators of the University of Missouri recognizes that academic honesty is essential for the intellectual life of the University. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. Academic dishonesty, including cheating, plagiarism, or sabotage, is adjudicated through the University of Missouri Student Conduct Code and Rules of Procedures in Student Conduct Matters.

Academic Inquiry, Course Discussion, and Privacy

University of Missouri System Executive Order No. 38 lays out principles regarding the sanctity of classroom discussions at the University. The policy is described fully in Section 200.015 of the Collected Rules and Regulations. In this class, students may not make any audio or video recordings of course activity (including those recordings prepared by an instructor), except students are permitted to record as an accommodation under Section 240.040 of the Collected Rules. All other students who record and/or distribute audio or video recordings of class activity are subject to discipline in accordance with provisions of Section 200.020 of the Collected Rules and Regulations of the University of Missouri pertaining to student conduct matters.

Those students who have written permission from the course instructor to record are not permitted to redistribute any audio or video recordings of statements or comments from the course to individuals who are not students in the course without the express permission of the faculty member and of any students who are recorded, including those recordings prepared by an instructor. Students found to have violated this policy are subject to discipline in accordance with provisions of Section 200.020 of the Collected Rules and Regulations of the University of Missouri pertaining to student conduct matters.

Campus Safety

Inclement weather, mass notification, and emergency response guide:
http://www.umkc.edu/umkcalert/

Counseling and Health Services Available at UMKC

UMKC students may experience many challenges in their lives while attending college – stress, depression, suicidality, trauma, relationship issues, health concerns, etc. As your professor, I care about your success and well-being and want to make you aware of some helpful resources on campus. The UMKC Counseling Center (www.umkc.edu/counselingcenter), located at 4825 Troost in Room 206, offers a wide range of supportive services to students. Appointments can be made by calling 816.235.1635. UMKC Student Health and Wellness (http://info.umkc.edu/studenthealth/), located at 4825 Troost in Room 115, offers a full range of health care and promotion services. Appointments can be scheduled online or by calling 816.235.6133. The MindBody Connection (www.umkc.edu/mindbody) is located in the Atterbury Student Success Center in Room 112 and offers a variety of stress-reduction services.

Disability Support Services

To obtain disability-related accommodations and/or auxiliary aids, students with disabilities must contact the Office of Services for Students with Disabilities (OSSD) as soon as possible. To contact OSSD, call (816) 235-5696. Once verified, OSSD will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. For more information, go to
http://www.umkc.edu/disability/

English Proficiency Statement

Students who encounter difficulty in their courses because of their instructors' English proficiency should speak directly with their instructors. If additional assistance is needed, students may contact the UMKC Help Line at 816-235-2222 for assistance.

Privacy Policies

Privacy Policy: https://www.umkc.edu/web-policy/privacy.asp
Webcam Policy: https://www.umsystem.edu/ums/elearning/policies

Grade Appeal Policy

Students are responsible for meeting the standards of academic performance established for each course in which they are enrolled. The establishment of the criteria for grades and the evaluation of student academic performance are the responsibilities of the instructor.
The University grade appeal procedure is available only for the review of allegedly capricious grading and not for review of the instructor's evaluation of the student's academic performance. Capricious grading, as that term is used here, comprises any of the following:

- The assignment of a grade to a particular student on some basis other than the performance in the course.
- The assignment of a grade to a particular student according to more exacting or demanding standards than were applied to other students in the course; (Note: Additional or different grading criteria may be applied to graduate students enrolled for graduate credit in 300- and 400-level courses.)

- The assignment of a grade by a substantial departure from the instructor's previously announced standards.

If you have other concerns, you should follow a similar process. The first step is to meet with the course instructor. If there is no satisfactory resolution of the problem, you may bring your concern to the Division chairperson. We recommend that you send the chairperson your concern in writing and request a meeting. If the chairperson is unable to resolve the issue, your next step would be to contact Assistant Dean Christine Timmerman. Once again, we recommend that you send your concern in writing and follow-up with a request for a meeting.

Discrimination Grievance Procedures for Students

Discrimination Grievance Procedures for Students can be found here:
http://www.umsystem.edu/ums/rules/collected_rules/grievance/ch390/grievance_390.010

Grievance Procedures (School of Computing and Engineering)

The School of Computing and Engineering has policies in place for assisting students with concerns and grievances. The General Grievance / Complaint Policy can be found here.

Statement of Human Rights:

The Board of Curators and UMKC are committed to the policy of equal opportunity, regardless of race, color, religion, sex, sexual orientation, national origin, age, disability, and status as a Vietnam era veteran. Commitment to the policy is mentored by the Division of Diversity, Access, & Equity, but it is the responsibility of the entire university community to provide equal opportunity through relevant practices, initiatives, and programs.

Title IX

Under the University of Missouri's Title IX policy, discrimination, violence, and harassment based on sex, gender, and gender identity are subject to the same kinds of accountability and support applied to offenses based on other protected characteristics such as race, color, ethnic or national origin, sexual orientation, religion, age, ancestry, disability, military status, and veteran status. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting UMKC's Title IX Office webpage (http://info.umkc.edu/title9/) or contacting UMKC's Title IX Coordinator, Mikah K. Thompson (816.235.6910 or thompsonmikah@umkc.edu). Additionally, you can file a complaint using UMKC's online discrimination complaint form, which is located at http://info.umkc.edu/title9/reporting/report-online/.
While most UMKC employees are required to report any known or suspected violation of Title IX, students may seek confidential guidance from the following campus locations:

Service	Office Location	Phone Number
UMKC Counseling Service	Volker Campus 4825 Troost Ave, Suite 206 Kansas City, MO 64110	(816) 235-1635
UMKC Counseling Service – Health Sciences Campus	Health Sciences Building 1418-2464 Charlotte Kansas City, MO 64108	(816) 235-1635
Student Health and Wellness	4825 Troost Ave., Suite 115 Kansas City, MO 64110	(816) 235-6133

Withdrawal Dates
The University has very specific guidelines on withdrawing from classes. There are important financial and assessment implications of trying to drop a course after the deadline. The Registration and Drop Dates Schedule can be found at http://www.umkc.edu/registrar/registration/registration-dates.asp.

General Policies for UMKC Courses

Will I be dropped from the class if I do not attend class? What happens if I do not attend class without communicating with my instructor? Accurate Enrollment Records - Administrative Drop	Maintaining accurate enrollment records throughout the term is a partnership between instructors and students. Instructors are responsible for verifying student attendance and participation within the first three weeks (16-week course) through the Attendance Verification Survey (administered through UMKC Connect) as well as maintain records of participation throughout the term so that the last date of attendance for students with recorded "F" or "W" final grades may be submitted. Because student plans for enrollment sometimes change prior to the semester's start, students not engaging in courses through the initial weeks of each course may be administratively dropped. For more detailed information regarding the policy, see: https://catalog.umkc.edu/undergraduate-academic-regulations-information/registration/administrative-drop-policy/
How do I get permission before Recording Class Sessions?	Instructor(s) may record class sessions for the sole purpose of sharing the recording with students who can't attend class. Instructor(s) will take care not to disclose personally identifiable information from the student education records during the recorded lesson. Students are not permitted to record class sessions without written consent from the course instructor.
If I am having difficulty, is there Technical Support that I can contact?	The links below will connect you with answers and information for the most common technical questions and issues students experience. UM System Keep Learning: https://keeplearning.umsystem.edu/students UMKC Instructional Design/Technology: https://idt.umkc.edu/support
What other academic policies should I review?	Additional important information about UMKC's policies and resources can be found at https://online.umkc.edu/support-policies
Exam Proctoring	Some assessments (such as tests and/or quizzes) in this course require the use of the Proctorio Learning Integrity Platform. Proctorio is an online, remote proctoring system that uses advanced machine learning and identity-verification technology to ensure

	test integrity. Taking assessments with Proctorio requires the use of the Google Chrome browser; you cannot use any other browser. You must have a laptop or desktop computer with a webcam and a microphone; you cannot use smartphones or tablets. You must have stable internet to take the assessment. Please review Taking Proctorio Tests. The University recognizes that not all students may be able to meet the minimum requirements. If you do not have access to the minimum technology requirements or have disabilities that require the use of a screen reader or keyboard navigation shortcuts, please inform your instructor before the quiz or test so that accommodations may be made. You will have an opportunity to take a practice assessment with Proctorio before you take a graded assessment. If no Proctorio practice assessment is included in this course, please check your campus's Online Student Orientation course for one. (Some of the practice assessment settings may differ from the actual ones in your course.) You should do this ahead of your first real assessment with Proctorio, as required adjustments may take a few minutes and take valuable assessment time. Please be aware that: • You, your computer, and your physical test-taking environment may be recorded. • As you may be recorded, please dress appropriately. • You may be asked to show a picture ID to the camera. • You will need a quiet place to take the assessment -- both for your concentration and as interruptions (voices, another person on camera) may be flagged for potential cheating. If you have concerns about your privacy or data security, please see Proctorio's statement on Personal Data Protections See the Taking Proctorio Tests page to learn how to: • Install the Proctorio extension for Chrome; • Set up your assessment environment; and • Complete the pre-assessment checks.

COVID-19 Policies

Do I need to have a Mask/Face-Coverings while on campus?	UMKC's mask/face-coverings policy is available at https://www.umkc.edu/coronavirus/index.html Any student requesting an ADA accommodation for the University mask/face covering policy should contact Scott Laurent, the Office of Disability Services, as soon as possible by calling (816) 235-5696 or via email laurentr@umkc.edu.
If I have a disability (including COVID-related disabilities), who can help me get important accommodations on campus?	Any student seeking COVID-related academic accommodations should contact Scott Laurent, the Office of Disability Services, as soon as possible by calling (816) 235-5696 or via email at laurentr@umkc.edu.
If I have questions regarding COVID-19 General Information, where do I go?	Up to date information and FAQs regarding COVID-19 may be found on the UMKC COVID website: https://www.umkc.edu/news/coronavirus.html

Masks

Masks are currently required in all public indoor settings, including classrooms. The policy will be reevaluated for all four UM System campuses prior to its expiration on September 15. We want to call your attention to some specific issues related to the policy:

- Instructors teaching in-person classes may remove their masks while lecturing if they are vaccinated and maintain at least six feet of distance from other individuals in the classroom. This exemption is to help students hear and understand their instructors within their classroom settings.
- Instructors must wear masks before/after class and in all other settings, including individual or small group meetings with students or classroom situations in which the distancing requirement cannot be met.
- Students must remain masked at all times.

Attendance and COVID-related Accommodations for Students

Our campus attendance policy outlines attendance expectations and excused absences. Students should be encouraged to quarantine and get tested if they have even mild COVID-19 symptoms. Faculty do not need to simultaneously offer a face-to-face and remote course but should have contingency plans in place for making course material and assessments available to any student who is unable to attend the class for an extended period of time with an excused absence.

For online course accommodations, the Instructional Design and Technology team can assist you in providing the accommodations needed.

COVID-19 continues to create challenges for all of us in our campus community and beyond. We are grateful to all of you for your dedication to keeping our campus a safe and vibrant home for students, staff, and faculty. Have a great semester ahead!