



KENNESAW STATE
UNIVERSITY

SYLLABUS

COLLEGE OF COMPUTING AND SOFTWARE ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE

CS 4322 W01 MOBILE SOFTWARE DEVELOPMENT

SUMMER 2025

Course Information

Class meeting time: Asynchronous

Modality and Location: 100 percent Online

The syllabus is posted in D2L

Instructor Information

Name: Jyothsna Dinadayalane (Students can call me **Ms. JD**)

Email: jdinaday@kennesaw.edu

Office Location: J-353 C

Office Hours:

Wednesday Noon – 2:00 PM online, Microsoft Teams, any other time by appointment

Preferred method of communication: Email

Course Description

This course primarily focuses on mobile sensor application development and the security of smartphones and mobile telecommunication systems. The goals of the course are to provide students with real-world, relevant mobile sensor app development and improve their knowledge and skills in mobile application development and mobile security.

Course Materials

Required Texts: None

Reference Web Resources:

1) [https://developer.android.com/courses/android-development-with-kotlin/course?](https://developer.android.com/courses/android-development-with-kotlin/course?utm_source=dac&utm_medium=website&utm_campaign=edu)

[utm_source=dac&utm_medium=website&utm_campaign=edu](https://developer.android.com/courses/android-development-with-kotlin/course?utm_source=dac&utm_medium=website&utm_campaign=edu)

2) <https://developer.android.com/courses/android-basics-kotlin/course>

Course Learning Outcomes

After successful completion of this course, a student will be able to:

1. Use Android Development Environment and Platforms
2. Design a user interface for a mobile device
3. Use Android Development Libraries to develop mobile apps
4. Test mobile apps

Course Requirements and Assignments

1. Lab Assignments
2. Project
3. Exams (Test 1,2,3)
4. Discussions

Evaluation and Grading Policies

The final grade will be assessed based on students' progress and findings as follows:

Assessment Criteria:	Percentage
Lab Assignments	25%
Online Orientation Tasks	10%
Test 1	10%
Test 2	10%
Test 3	15%
Project	30%
Total	100%

GRADING SCALE:

90% - 100% A

80% - 89% B

70% - 79% C

60% - 69% D

0% - 59% F

I will round up the grades if they are $>$ or $= .5$ or above, for example, 89.6 is an A, but 79.2 is a C.

Midterm Grades: A midterm grade may be assigned by the midterm grade due date identified on the academic calendar. This midterm grade assesses mid-semester performance at least one week before the last day to withdraw without academic penalty. You may view your midterm grade in Owl Express. Note that only your final grade will be officially recorded on your academic transcript.

Course Policies

- Students are expected to be active participants in each class activity.
- Students will work on homework and programming assignments according to the class schedule.
- Examinations will consist of material that covers concepts from the lecture material, the homework and programming assignments, and the assigned readings.
- Students will be given specific guidance on the amount of collaboration permitted for each assignment.

Exams:

There will be 3 exams. There will be no make-up tests. It is the student's responsibility to arrange for an excused absence before the test. A grade of zero will be assigned for all exams missed without an excused absence.

Assignments:

Assignments are due throughout the term and must be submitted through D2L/Brightspace by 11:59 pm on the designated due date for each assignment. **No** assignments will be **accepted** via email. If you turn in a homework assignment late, you will lose at least 20% of your score. Late assignments will only be accepted up to 2 days after the due date.

Interaction with the instructor: Virtual or face-to-face meetings with me are encouraged and required. They are important for the successful completion of the course. Students are expected to be fully prepared and actively participate in class. The student is responsible for making up missed classes.

Meeting Participation: Students should take advantage of this opportunity to build their foundations by engaging fully in class discussions with fellow students and faculty.

Classroom Behavior: All students are reminded to conduct themselves following the Student Code of Conduct, as published in the University Catalog. Every KSU student is responsible for upholding the provision. Students who violate KSU policy will be asked to leave the classroom and may be subject to disciplinary action by the University.

Instructor Response Time:

Email Messages: Remember to put the course name and section number in the subject field of every email message that you send me. E-mail messages that are missing this information are likely to be automatically redirected to a folder I seldom check.

I will respond to each email within two business days of receipt. Business days are M-F 9 AM-6 PM. Some items may be deferred for action, but all email messages will receive a response within the specified time. Email messages received after 5 PM will most likely not receive a reply until the next business day. Email messages received on the weekend will not be guaranteed a response until Monday.

I will make every effort to have assignments and exams graded within 2 weeks of the due date. This commitment does not apply to assignments that are submitted late.

A grade of zero will be assigned for all **assignments, discussions, presentations, quizzes, and exams** missed without an excused absence.

Instructional Continuity Plan

Kennesaw State University (KSU) may decide to close campuses, operate on a delayed schedule, or transition to remote instruction for inclement weather or in case of emergency.

The University will announce campus closures, delayed schedules, or remote instruction through KSU Alerts sent to your cell number on file and to your university email account. In addition, announcements will be posted on KSU's home page: www.kennesaw.edu.

Our class continuity plan includes:

1. Communication: Please check D2L Brightspace or email for necessary instructions.
2. Virtual Classes: If in-person classes are not possible, we may transition to virtual classes using MS Teams.

3. Assignments and Assessments: Deadlines for assignments and assessments may be adjusted to accommodate the emergency.

We understand that emergencies create unique challenges. If you need additional support during an emergency, reach out via Brightspace or email. The university also offers resources such as counseling and academic support, which can be accessed remotely.

Policy on the Usage of Artificial Intelligence

AI Use Allowed, but Not Required:

In this class, you are welcome to use AI for any purpose. However, you should note that all AI generative tools still tend to make up incorrect facts and fake citations, code generation models tend to produce inaccurate outputs, and image/art generation tools can produce copied work or offensive products. You will be responsible for any inaccurate, biased, offensive, or otherwise unethical content you submit, regardless of whether it originally comes from you or an AI tool. If you use an AI tool, its contribution must be credited to your submission. The use of an AI tool without acknowledgment is cheating and constitutes a violation of the KSU Code of Academic Integrity.

Department or College Policies

Students are expected to be aware that the Computer Science department has certain policies in place that govern practices within the department, including:

1. All courses used toward any undergraduate degree in computer science must be completed with an assessed performance grade of "C" or better. This means that all prerequisite courses from the CS Department must have been completed with a "C" or better for a student to enter the next course in a sequence.
2. All requests for course overloads must be made through the College advising office and with the approval of the CS Program coordinator and department chair. The instructor of any course is not permitted to authorize course overloads.
3. All requests for prerequisite bypasses must be submitted through the College's advising office and approved by the CS Program coordinator and department chair. The instructor of any course is not permitted to authorize course overwrites.
4. All students are encouraged to register their current choice of major using the department's major change process. Students who are not recorded under their intended major may find that they may be limited from registering for courses they require to complete their intended program of study.

Institutional Syllabus Policies, Procedures, and Resources

[Federal, BOR, & KSU Required Syllabus Policies and Student Resources](#)

Course Schedule (Tentative)

Week	Content Covered	Tasks
Week 1 5/28 – 5/30	Class intro, Introduction Kotlin Basics	Online Orientation tasks
Week 2 6/2 – 6/6	Functions, Classes and Objects	Lab 1, 2
Week 3 6/9 – 6/13	Build your first Android App, Layouts	Lab 3, 4
Week 4 6/16 – 6/20	App Navigation, Activity and Fragment Lifecycle	Lab 5, Exam 1
Week 5 6/23 – 6/27	App Arch (UI Layer, Persistence Layer)	Lab 6, Midterm Project Report Due
Week 6 6/30 – 7/4	Advanced RecyclerView use cases	Lab 7, Exam 2
Week 7 7/7 – 7/11	Connect to the Internet, Repository pattern and WorkManager	Lab 8, 9
Week 8 7/14 – 7/18	App UI Design Data Driven and Security	Lab 10
Week 9 7/21 – 7/22	App UI Design Data Driven and Security	Final Project Report Due
7/24		Exam 3

Disclaimer: This syllabus represents the current plans and objectives. As we progress through the semester, those plans may need to be adjusted to enhance the learning opportunities for the class. Such changes, communication experience, are not unusual and should be expected.

Important Dates:

Mid-Term Grades Due, 11:45 p.m. Jul 1 (Tu)

Last Day to Withdraw, 11:45 pm Jul 8 (Tu)

Final Exam Jul – 24 (Th)

Final Grades Due by NOON Jul 28 (M)

COURSE WITHDRAWAL

See below for commentary on withdrawals from the 2020-2021 Undergraduate Catalog:

A student may withdraw, using Owl Express, from one or more courses before one week before the last day of class. The student should consult the applicable academic calendar posted on the Office of Registrar website because the last day of class varies according to the part of the semester in which the student is enrolled. Each first-time, first-year student may withdraw without penalty by the applicable semester date from a maximum of eight courses while attending KSU. Each transfer student may withdraw without penalty by the applicable semester date from a maximum of one course per fifteen credit hours attempted and a maximum of eight courses while attending KSU. A student pursuing a second degree at KSU may withdraw without penalty by the applicable semester date from two additional courses with appropriate consultation with the Office of the Registrar. A student who attended Southern Polytechnic State University (SPSU) and has been continuously enrolled at SPSU/KSU may withdraw without penalty from a maximum of eight courses, while attending KSU and after Summer Semester 2015. The student will receive a grade of "WF" for each withdrawal beyond the prescribed maximums. A student who officially withdraws from a course by the end of the last day to withdraw without academic penalty will receive a grade of "W" and receive no credit. A student who officially withdraws from a course after the last day to withdraw without academic penalty and before the last week of classes during the

semester will receive a grade of "WF," which will be counted as an "F" in the grade point average calculation.

For attendance verification, the applicable faculty member will submit the last known date of academically related activity and one of the following symbols for each student who stopped attending the course.

- "NA" (never attended) for a student who never attended the course, never attended the course after the applicable Drop-Add date, or did not complete any academically related activity.
- "W" (withdrew) for a student who stopped attending before the last day to withdraw without academic penalty for the applicable semester and whose academically related activity was deemed passing
- "WF" (withdrew failing) for a student who stopped attending after the last day to withdraw without academic penalty for the applicable semester, or who stopped attending before the last day to withdraw without academic penalty for the applicable semester, and whose academically related activity was deemed failing

The only exceptions to these withdrawal regulations will be for instances involving unusual circumstances, which must be fully documented, or military withdrawal (see below). A student may appeal to the Academic Standing Committee for consideration of unusual circumstances. Withdrawal dates are published in the official academic calendar. A student will receive a refund only when the student withdraws from ALL courses for the applicable semester and only by the schedule outlined in the University System's refund policy.

GRADE APPEALS AND STUDENT COMPLAINTS

See below for commentary on withdrawals from the 2020-2021 Undergraduate Catalog:

A student's rights to grade appeals are defined in the University catalogs. Each faculty member must specify the grading policy in the syllabus at the beginning of the course. The faculty member may change the grading policy for cause after that time, but must do so uniformly with ample notification to students. The grading policy should be quite specific and should be distributed to each class in written form. Some departments may also require faculty members to file grading policy statements in the departmental office. Because the student can submit a grade appeal to the Department Chair within 20 business days after the first day of classes of the next academic term after the academic term in which the final grade was awarded to the student (see Grade Appeals Procedure, section B), it is strongly recommended that instructors retain any student papers, tests, projects, or other materials not returned to the student for 70 days after the end of a semester or if an appeal is filed until the appeal is resolved.

Students can find more details regarding the appeal process here:

<http://catalog.kennesaw.edu/>

ACADEMIC INTEGRITY

Every KSU student is responsible for upholding the provisions of the [Student Code of Conduct](#), as published in the Undergraduate and Graduate Catalogs. Section 5c of the Student Code of Conduct addresses the university's policy on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to university materials, misrepresentation/falsification of university records or academic work, malicious removal, retention, or destruction of library materials, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards. Incidents of alleged academic misconduct will be handled through the established procedures of the Department of Student Conduct and Academic Integrity (SCAI), which includes either an "informal" resolution by a faculty member, resulting in a grade adjustment, or a formal hearing procedure, which may subject a student to the Code of Conduct's minimum one semester suspension requirement.

The Student Code of Conduct is available at: <https://scai.kennesaw.edu/codes.php>

CAMPUS POLICIES

Confidentiality and Privacy Statement (FERPA):

Kennesaw State University adheres to the Family Educational Rights & Privacy Act of 1974 - FERPA. See the following link for more information:

<https://ferpa.kennesaw.edu/index.php>

Ethics Statement:

All students are responsible for knowing the information, policies, and procedures outlined in the Kennesaw State University Codes of Conduct. The KSU Codes of Conduct include: the general Student Code of Conduct, the Residential Code of Conduct, and the Code of Academic Integrity. Kennesaw State University reserves the right to make changes to this code as necessary, and once those changes are posted online, they are in effect. Students are encouraged to check online for the updated versions of all policies.

<http://scai.kennesaw.edu/codes.php>

Sexual Misconduct Policy:

Kennesaw State University is committed to providing programs, activities, and an educational environment free from all forms of sex discrimination. For more information, click here. KSU issues this statement of policy to inform the community of the University's comprehensive plan addressing sexual misconduct, educational programs, and procedures that address sexual assault, domestic violence, dating violence, and stalking, whether the incident occurs on or off campus. This policy generally covers faculty, students, and staff of the University, as well as third parties. Third parties include, but are not limited to, guests, vendors, contractors, retirees, and alumni.

Further information associated with this university policy can be found under sexual misconduct on the Policy Portal website located at: <https://policy.kennesaw.edu/>

<http://scai.kennesaw.edu/procedures/sexual-misconduct.php>

Course Accessibility Statement (ADA Statement):

Kennesaw State University provides program accessibility and reasonable accommodations for persons defined as disabled under Section 504 of the Rehabilitation Act of 1973 or the Americans with Disabilities Act of 1990, as amended. Students who require accommodation in facilities, services, programs, or activities should contact the Assistant Director for Disabled Student Services to arrange an individual assistance plan. Accommodations may include classroom accessibility, modified computer equipment, disability-accessible parking, assistance with note-taking, sign language interpreting, or captioning services, class materials in alternate format, library and laboratory assistance, and other accommodations. Determination of appropriate accommodations to be provided will be based upon documentation of the disability. Members of the public who require specific accommodations in facilities, services, programs, or activities should contact the office sponsoring the service, program, or activity at least five days in advance to arrange individual accommodations. Eligible students deliver certification letters to faculty at the beginning of each semester, identifying the accommodations approved for that student. Faculty members are also instructed that they must provide students with special needs with appropriate accommodations promptly. The Assistant Director for disABled Student Support Services will work with faculty members to ensure that students receive appropriate accommodations. A student should notify Disabled Student Support Services in writing within two (2) days of any disagreement between the student and the faculty member if agreed-upon academic adjustments are not provided to seek a resolution. A student who alleges discrimination on the basis of disability may file a grievance through the University's established grievance procedures. The following have been designated by the President of the University to provide assistance and ensure compliance with the ADA. Should a student require assistance or have further questions about the ADA, please contact either the ADA Compliance Officer for Students at 770-423-6443, the ADA Compliance Officer for Facilities at 470-578-6224, or the Director of Human Resources, ADA Compliance Officer for staff and faculty at 470-578-2666. For more information, go to:

<http://sds.kennesaw.edu/>

ADDITIONAL STUDENT RESOURCES

For CCSE Student resources:

<http://ccse.kennesaw.edu/student-resources.php>

KSU Service Desk:

The KSU Service Desk is your portal to getting assistance or access to University IT Services. Students call: 470-578-3555 or email studenthelpdesk@kennesaw.edu

For Academic Advising information and to schedule appointments:

<http://ccse.kennesaw.edu/advising/index.php>

Links to frequently used and helpful services:

<http://www.kennesaw.edu/myksu/>

Department of Career Planning & Development

<https://careers.kennesaw.edu>

Counseling and Psychological Services

<https://counseling.kennesaw.edu>

Center for Health Promotion and Wellness

<https://wellness.kennesaw.edu>

Student Health Services

<https://studenthealth.kennesaw.edu>