



Department of Computer Science

CS 4850 Senior Project/Capstone

Section 01: 14931, M,W 6:30PM—7:45 PM

Section 02: 14939, T,R 2:00-3:15 PM

Section 03: 14954, T,R, 5:00-6:15 PM

Spring 2022 Course Syllabus

Subject to Change

Professor	<p>Dr. Ken Hoganson Professor Phone: 470-578-3402 Location: Chastain Pointe 206 P Email: khoganso@kennesaw.edu Office hours: Flexible, call, email, skype, MS Teams, or in person at my office</p>
Course Design	<p>The course will be delivered with lectures but primarily team project work following the AGILE design philosophy, using a hybrid-social-distanced model. All lecture notes are provided via KSU Desire2Learn Access http://d2l.kennesaw.edu/ Assessment will be based on student team work and project deliverables, and assessment of individual performance. <u>Students will be a member of a team (5-7 team members). Each project team will meet three times during the semester to deliver formal graded presentations (10-15 minutes).</u> <u>AS A RESPONSE TO THE COVID-19 PANDEMIC,</u> MEETING FOR PRESENTATIONS WILL BE ON A ROTATING SCHEDULE, WITH OPTIONAL IN-PERSON OR MS-TEAMS PRESENTATIONS. Teams may choose to make their presentation: <u>IN-PERSON (TUE), OR THROUGH MS TEAMS (THUR)!</u> Each team leader will notify the professor by email of their intention to present either-person or through MS teams, <u>no later than 48 hours prior to the scheduled day and time of the presentation.</u> <i>All team members must have a working webcam/sound for credit!</i></p> <p>FOR PRESENTATIONS, EACH SECTION OF CS 4850 SECTION IS DIVIDED INTO GROUPINGS OF TEAMS: <u>A, B, and C groups</u> (depending on section enrollment). About 3-4 teams will meet together in each group, about 16 individuals in the classroom (<i>optional MS-Teams or in-person</i>). Each team will present 3 times over the semester. <i>One group of teams will present on one day of the week.</i> <u>Section 01: 14931: Present at 6:30PM, Group A first week, then B&C following</u> <u>Section 02: 14939: Present at 2:00PM, Group A first week, then B&C following</u> <u>Section 03: 14954: Present at 5:00PM, Group A first week, then B&C following</u> Presentation schedule details below! First team grouped presentations begin <i>September 14</i>, showing the results of your initial development. There are presentations to view and team organization tasks, with a due date of <i>Sept 1</i>. Dress nicely (business casual) and be prepared to make a positive impression, as well as deliver content on a well-organized and progressing project. Rehearse your presentations in advance, and test your technology so no embarrassments and wasted time during your presentation!! MASKS RECOMMENDED FOR IN-CLASS students. Each presentation period (three during the semester) spans three weeks. Group A will meet the first week, Group B will meet the second week, Group C will meet the third week.</p>

Office Hours	I will be available for help/discussions by email, phone, and Teams. Office hours from 11AM-1PM on Mon-Thur, and by appointment or arrangement. I am usually in the office during the mornings, some afternoons, you may call.		
Textbook	None Required		
Prerequisite	Prerequisite: For CS majors: CS 3502 and CS 4305 Or permission for BA-ACS majors, please email me if you are BA-ACS major.		
Course Description	The course provides a capstone experience for computing majors to promote a successful transition to the work place or further academic study. Students will have the opportunity to practice essential project management skills and work with current software tools and technologies. Student teams will develop a project scope, project plan, document functional specifications, develop a design document, implement specified functions, provide weekly progress reports, give project presentations to the class, conduct final project presentation to the instructor and/or project sponsor, and provide a complete final report that includes documentation of all class activities. Each team will designate a team leader who is responsible for coordinating work tasks, team meetings, communications with the instructor and/or project sponsor, and team effort.		
Learning Outcomes	After successful completion of this course, a student will be able to: 1. Demonstrate the ability to complete a project working as a team member 2. Demonstrate the ability complete a computer science project incorporating different elements of the discipline 3. Other learning outcomes vary by project		
Materials	Note: Student Project Materials to be uploaded to KSU D2L http://d2l.kennesaw.edu/		
WK dates	Senior Project CS 4850 Fall 2021 Dr. Hoganson Organized as Five phases, One Project Phase, Three Agile Sprints, One Completion and Wrap-UP Phase Phase 1: Project Analysis and Team Planning & Prototype GUI Sprints 1,2,3: Project development and prototyping Phase 5: Project completion and final presentation at C-Day & IAB	Deliverable	Due
1st day of classes Spring 2022: Mon Jan 10. Last day of classes Mon. May 2. Final Exams, May 4-10 (Wed-Tue).		Phase 1: Organizing and Planning. Weeks of Jan 10 & 17.	
Jan 10	Introduction, and overview of plan for the course and for projects. A list of projects: Students will sign up for a team project in D2L, limited to 6 members per team max. <i>In the real world teams are assigned based on skillset and availability. In our case projects are to be analyzed and the skill sets needed determined by student groups as part of the learning experience. The team member skill sets will vary determined by student choices, but with similar core knowledge.</i> Presentation on agile methods and evolutionary design with prototypes are recorded. FORM1 Do Not Submit	Sign up for 1 or 2 teams. Email prof to withdraw from a team. Teams choose a team leader (may change later) who will upload the project plan to D2L.	None
Jan 17	Project plan developed and submitted to instructor. Plan includes: development modules and their interaction; who will work on which module; planned development work described for each module at each prototype stage and final project completion. FORM2 & MOCKUP GUI	Email prof to withdraw from a team. Teams choose a team leader who will upload the project plan to D2L.	11:30PM Due Jan 22 10pts
Sprint 1: Prototype 1 Development.			
Jan 24, 31 Feb 7, 14	Project development work Team makes a progress presentation to the instructor – with <u>prototype 1 demonstration</u> for grade: <u>Rehearse your presentation!</u> RUBRIC1	PROJECT PRESENTATION 1 ppt to D2L	20pts
	Students submit team member evaluations to Adriana Clark – private. Comments are collated and forwarded to the professor.	Team participation peer assessment form DUE Oct 1	Factors into final grade

	Ms Clarke discusses issues with students, and is available for consultation (anonymous) FORM3		Oct 1
Sprint 2: Prototype 2 Development.			
Feb 21, Mar 7, 21, 28	Project development work Prototype required to be demonstrated to the class. Project is working, and demonstration should reflect this. Rehearse your presentation!	PROJECT PRESENTATION 2 ppt to D2L	30pts
Sprint 3: Prototype 3 Development.			
Apr 4, 11, 18, 25	Development Work. Instructor evaluates the final project. Rehearse your presentation! You should continue to fix and refine your project after the last presentation, and upload your final project to D2L with a summary of changes/fixes since your last presentation and how I can review those revisions.	PROJECT PRESENTATION 3: ppt to D2L	20pts
	Phase 5: Final Recording and Upload to D2L		20pts
May	Instructor reviews your final project <u>recorded presentation</u> and your project and materials.		May 8 at 11:30PM
			100pts
	Students submit team member evaluations to Adriana Clark – private. Comments are collated and forwarded to the professor. Ms Clarke is available for consultation (anonymous) FORM3	Team participation peer assessment form Due Dec 1!	Factors into final grade
	Research and Creative Activity Reflection on D2L. Each TEAM provides a short analysis and reflection on their 4850 experience.		

	PHASE 1 Project Organization			SPRINT 1 Development				SPRINT 2
Week	Wk 1	2		3	4	5	6	7
Monday	Jan 10	Jan 17 (Holiday)	Jan 22	Jan 24	Jan 31	Feb 7	Feb 14	Feb 21
		10 pts		Sprint 1 Presentations (20pts)				
14931 (01)	6:30PM Monday		Submit Proj Plan to D2L		A-Mon F2F Wed MS-Team	B- Mon F2F Wed MS-Team	C- Mon F2F Wed MS-Team	
14939 (02)	2:00PM Tuesday		Submit Proj Plan to D2L		A-Tue F2F Thur MS-Team	B-Tue F2F Thur MS-Team	C-Tue F2F Thur MS-Team	
14954 (03)	5:00PM Tuesday		Submit Proj Plan to D2L		A-Tue F2F Thur MS-Team	B-Tue F2F Thur MS-Team	C-Tue F2F Thur MS-Team	
	SPRINT 2 Development			SPRINT 3 Development				
Week	8	9	10	11	12	13	14	15
Monday	Feb 28	Mar 7 Break	Mar 14	Mar 21	Mar 28	Apr 4	Apr 11	Apr 18
	Sprint 2 Presentations: (30 pts)					Sprint 3 Presentation (20 pts)		
14931 (01)	A- Mon F2F Wed MS-Team		B- Mon F2F Wed MS-Team	C- Mon F2F Wed MS-Team		A- Mon F2F Wed MS-Team	B- Mon F2F Wed MS-Team	C- Mon F2F Wed MS-Team
14939 (02)	A-Tue F2F Thur MS-Team		B-Tue F2F Thur MS-Team	C-Tue F2F Thur MS-Team		A-Tue F2F Thur MS-Team	B-Tue F2F Thur MS-Team	C-Tue F2F Thur MS-Team
14954 (03)	A-Tue F2F Thur MS-Team		B-Tue F2F Thur MS-Team	C-Tue F2F Thur MS-Team		A-Tue F2F Thur MS-Team	B-Tue F2F Thur MS-Team	C-Tue F2F Thur MS-Team
Final Phase 5: Mon Apr 25 - Fri May 6.					Upload to D2L 11:30PM Fri May 6.			

Assessment and Grading:

Student grade assignments will be calculated and assessed in this way:

Team Project and Presentation assessments	Project Analysis & Team Plan & Prototype GUI: 10pts	Sprint 1: Functional GUI: 20pts	Sprint 2: Core Functionality: 30pts	Sprint 3: Complete 20pts	Phase 5 Polish 20pts:
Team Project Total:					
INDIVIDUAL STUDENT GRADE: MODIFIES TEAM SCORE					
Individual student performance assessment	Participation in Presentations, Peer Evaluations: Up to 10% deducted				
	Professor's assessment of your contribution, leadership, dedication, team support: + or - up to 20%				
	If you have not made any impression on me, or you have not visibly contributed, your assessment in this category will likely be negative.				
	Selected to present at IAB or C-Day or Both: + 10% C-DAY MAJOR AWARD: +10%				
	Peer assessment of your contributions and team participation: + or - up to 20%				
Final Assessment and Grade:					

Assessment and Grading:

Standard 10% cuts for letter grades: 90+= 'A'. 80-89='B'. 70-79='C'. 60-69='D'. 59 and less = 'F'.

Attendance:

Required on meetings noted above. Failure to attend will result in a zero for the individual grade for that sprint.

Lecture Notes & Recordings:

PowerPoint Slide and Lecture recordings are posted on D2L.

Withdrawal Policy:

The last day to [withdraw](#) without academic penalty is [shown on the course schedule](#). Ceasing to attend class or oral notice thereof DOES NOT constitute official withdrawal from the course. Students who simply stop attending classes without officially withdrawing usually are assigned failing grades. Students wishing to withdraw after the scheduled change period (add/drop) must obtain and complete a withdrawal form from the Academic Services Department in the Registrar's Office.

Enrollment Policy:

Only those students who are enrolled in the class may attend lectures, receive assignments, take quizzes and exams, and receive a grade in the class. If a student is administratively withdrawn from this course, they will not be permitted to attend class nor will they receive any grade for the class.

Electronic Devices:

In order to minimize the level of distraction, all watches, beepers and cellular phones must be on quiet mode during class meeting times. Students who wish to use a computer/PDA for note taking need prior approval of the instructor since key clicks and other noises can distract other students. Recording of lectures by any method requires prior approval of the instructor.

Email Messages:

Only use your KSU email, do not use the email within D2L!!!!

Remember to put the course name and section number in the subject field of every e-mail 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.

Student Course Evaluation:

A standard online questionnaire (described below) will be administered electronically during the last two

weeks of the semester in all classes. Additional questions developed by the college or instructor(s) may be included as well. It is important that each student provide meaningful feedback to the instructor(s) so that changes can be made in the course to continually improve its effectiveness. We value student feedback about the course, our teaching styles, and course materials, so as to improve our teaching and you're learning. At a minimum, the following two questions will be asked:

1. Identify the aspects of the course that most contributed to your learning (include examples of specific materials, exercises and/or the faculty member's approach to teaching and mentoring), and
2. Identify the aspects of the course, if any that might be improved (include examples of specific Materials, exercises and/or the faculty member's approach to teaching and mentoring).

Student Email and Web Account Access:

KSU has moved to a central authentication server that will allow one username and password to be used by all KSU users to access an increasing variety of applications (email, GeorgiaView etc.) This unified network identification is referred to as your "NetID". The new source for university-provided email and web space for students will be located at students.kennesaw.edu All students will have access to this system once they have established their NetID. This system will provide email service through a web based interface, FTP and SFTP.

How to Activate your NetID:

To activate your NetID go to <http://netid.kennesaw.edu> and click on "Sign up Now!" link. You will be asked to provide information to verify your identity and set your password. This password will only be for NETID enabled applications.

How to Look Up a NetID:

After you have activated your NetID, you can look up other users by logging into <http://netid.kennesaw.edu> and clicking on Directory Search.

Web Address:

For student web address, your NETID in combination with the new server address would look like <http://students.kennesaw.edu/~netid>. If you have problems please call the Service Desk at ext. 6999 or e-mail service@kennesaw.edu.

Disability Statement:

Any student with a documented disability needing academic adjustments is requested to notify the instructor as early in the semester as possible, and must do so before the mid-term exam. Verification from KSU disabled Student Support Services is required. All discussions will remain confidential

Availability of On-Campus Computer Labs: Marietta Campus J-263 (Atrium Building):

The lab in J-263 of the Atrium Building is open as listed on D2L Home Page. See the display note and e-mail announcements.

CS Department Policies:

Students are minded that the CS Department has certain policies in place that govern practices within the department. Including:

- All courses used toward any undergraduate degree in the CS Department 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 in order for a student to enter the next course in a sequence.
- All requests for course overloads must be made through the department chair's office and CS advisor. The Instructor of any course is not permitted to authorize course overloads.
- All requests for prerequisite bypasses must be made through the department chair's office. The Instructor of any course is not permitted to authorize course overloads.

- All students are encouraged to register their current choice of major using the department 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.

To answer any questions about these or other departmental policies, please contact the chair's office.

Academic Integrity Statement:

Every KSU student is responsible for upholding the provisions of the Student Code of Conduct, as published in the Undergraduate and Graduate Catalogs. Section II 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. See also <http://www.kennesaw.edu/scai/content/ksu-student-code-conduct>.

Students are encouraged to study together and to work together on class assignments and lab exercises; however, the provisions of the STUDENT CONDUCT REGULATIONS, II. Academic Honesty, KSC Undergraduate Catalog will be strictly enforced in this class.

Frequently students will be provided with "take-home" exams or exercises. It is the student's responsibility to ensure they fully understand to what extent they may collaborate or discuss content with other students. No exam work may be performed with the assistance of others or outside material unless specifically instructed as permissible. If an exam or assignment is designated "no outside assistance" this includes, but is not limited to, peers, books, publications, the Internet and the WWW. If a student is instructed to provide citations for sources, proper use of citation support is expected.

Acknowledgment and Acceptance of Academic Integrity Statement:

In any academic community, certain standards and ethical behavior are required to ensure the unhindered pursuit of knowledge and the free exchange of ideas. Academic honesty means that you respect the right of other individuals to express their views and opinions, and that you, as a student, not engage in plagiarism, cheating, illegal access, misuse or destruction of college property, or falsification of college records or academic work. As a member of the Kennesaw State University academic community you are expected to adhere to these ethical standards. You are expected to read, understand and follow the code of conduct as outlined in the KSU graduate and undergraduate catalogs.

You need to be aware that if you are found guilty of violating these standards you will be subject to certain penalties as outlined in the college judiciary procedures. These penalties include permanent expulsion from KSU. Students are required to complete the Academic Integrity Quiz in GeorgiaView Vista to acknowledge the receipt of this syllabus and to acknowledge that they agree to abide by the class policies and the academic integrity policies of the University.

Diversity Statement:

All courses offered by the Computer Science and Information Systems department will adhere to the KSU policy that prohibits discrimination on the basis of race, religion, color, sex, age, disability, national origin, or sexual orientation.