

Course Syllabus

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CS 499 - Senior Team Project

Fall 2020

Syllabus and Course Summary

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Class Meets: Tue., Thu. - 6:00 - 7:20 PM in ~~OKT N 324~~ **via Zoom** (<https://uah-uasystem.zoom.us/j/91991862831?pwd=TVZ1b1dpSnJ4MGtxYmcyQjYxZUxOUT09>)

Office Hours: Tue., Thu. 2:30 - 4:15 in OKT N-351 or by appointment or via Zoom.



Text: *Software Engineering A Practitioner's Approach*, 9th edition, Roger S. Pressman and Bruce Maxim, McGraw Hill, Inc, 2020.

Course Objectives

When you have completed this course you should have:

- An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
- An ability to apply design and development principles in the construction of software systems of varying complexity.
- Practical experience in the software engineering process by participation on a team in the development of a major software system.
- Developed an understanding of the professional, ethical, legal, and social issues related to computing and the responsibilities of computing professionals with respect to these issues.
- An ability to communicate effectively with a range of audiences; customers, supervisor, team mates, etc.
- Learned to recognize and analyze the impact of computing on individuals, organizations, and society.

Team Software Development Project

- The class will be divided up into teams of three or four people.
- Each team will be given a project assignment.
- Following the Agile Scrum approach to software development teams will work just as if this were an actual project for a major software development company.
- Each team submits a weekly report spreadsheet, found in [Weekly-Report-Team-Z-Wknn.xlsx](#) .
- Each team member submits a weekly individual report spreadsheet, found in [Weekly-Report-Ind-yourname-Wknn.xlsx](#) .
- See the [Overview](#) for more information.

Final Grade

Final grades are based on both individual and team efforts. If a team reports that a member is not doing their share of the work that member's grade may suffer. If the team "fires" a member because of lack of participation that member will receive an F for the course.

Factors figured in the final grade are:

- Participation in team presentations in class.
- Participation in team software process out of class.
- Weekly team meeting reports.
- Individual sprint reports.
- Quality of software documents prepared by the team.
- Individual work completed in each sprint.
- Final, in-class, presentation of the team project.

General Information

Please read the [general guidelines and policies](#)

(<http://www.cs.uah.edu/~delugach/Courses/Syllabus-General.html>) that apply to this course, They are a part of this syllabus. This syllabus is freely available to anyone. Other course materials, announcements, discussions, etc. will be distributed using Canvas (canvas.uah.edu).

Course Mode

This course will be conducted in an "online, flipped, synchronous" mode:

- **Online** - Students will not be required to meet their team or the professor face-to-face.
- **Flipped** - Each scheduled class session will be preceded by a short (approx. 20-25 min.) lecture recorded by the professor using Panopto and made available the day before class. Students are expected to view this recording before the interactive portion occurs.

- **Synchronous** - The interactive portion of the class will be conducted via Zoom in real-time at the time period scheduled. This is a good time for student questions. In most cases, this portion will not last the entire 80 minutes. When team presentations occur, however, be prepared for the full time to be used.

General notices will often be posted under [Announcements](#). Be sure you check them at least once a day, preferably before class time.

Canvas Online Access

Communication in this class will be conducted through Canvas by Instructure, the university's course management system. To access Canvas, go to uah.instructure.com or access it through [the Central Authentication Service \(SSO\)](#) (<http://sso.uah.edu/cas>). You'll find instructions there about id/password and access information. You may also reach the Help Desk at <http://www.uah.edu/oit>, (<http://www.uah.edu/oit/contact>) helpdesk@uah.edu, (<mailto:helpdesk@uah.edu>) or phone them at 256-824-3333.

Course Schedule

**Assignments will generally not be accepted late.

	Date*	Topic	Assignment	Due**
1	Thursday, Aug, 20	Team Organization Lecture: <i>Course Introduction and Requirements</i> Activity: Meet your development team.		
2	Tuesday, Aug. 25	Contract Awarding Lecture: <i>Agile Software Development</i> Activity: Assignment of semester project.	Start of Sprint 1 Chapters 1-4	
Sprint 1				
3	Thursday, Aug. 27	Software Development Plan Lecture: <i>Project Management and the S.D.P.</i> Activity: Work on Software	Chapters 21-27	

		Development Plan.		
4	Tuesday, Sept. 01	Software Development Plan Lecture: <i>Software Development Tools</i> Activity: Work on Software Development Plan.		
5	Thursday, Sept. 03	Making oral presentations Lecture: <i>Some advice from Toastmasters</i> Activity: Work on Software Development Plan and class presentation.		
6	Tuesday, Sept. 08	Team Presentations - First Group Activity: Presentation of Software Development Plan to Supervisor. Teams will be randomly selected and as many as possible will present. The remaining teams will present at the next class meeting.		SW Dev Plan SDP PPT slides
7	Thursday, Sept. 10	Team Presentations - Second Group Activity: Presentation of Software Development Plan to Supervisor.	End of Sprint 1 Start of Sprint 2 If your project is web based read Chapters 16-20	Sprint 1 Reports

Sprint 2

8	Tuesday, Sept. 15	Requirements and the Backlog Lecture: <i>Defining requirements in the Backlog.</i> Activity: Work on Backlog and meet with supervisor as needed.		
9	Thursday,	Backlog Activity: Work on the Backlog. List		

	Sept. 17	all epics.		
10	Tuesday, Sept. 22	Backlog Activity: Report to supervisor on status of the Backlog, list user stories for first epics to be implemented, prepare for team presentations.		Sprint 1 Reports
11	Thursday, Sept. 24	Team Presentations - First Group Presentation of first version of the Backlog. Teams who presented on the second night last time will present first this time.		First Draft: Project Backlog PowerPoint slides if used.
12	Tuesday, Sept. 29	Team Presentations - Second Group Presentation of first version of the Backlog.	End of Sprint 2 Start of Sprint 3	Sprint 2 Reports
<h2>Sprint 3</h2>				
13	Thursday, Oct. 01	Design Lecture: <i>Object Oriented Design</i> Activity: Work on Architectural Design: determine modules, units, classes, etc. of product. Update Backlog as needed.	Chapters 5-15	
14	Tuesday, Oct. 06	Lecture: <i>Agile Testing</i> Activity: Work on Architectural Design. Update Backlog as needed.		

15	Thursday, Oct. 08	Lecture: <i>MoreAgile Testing</i> Activity: Work on Architectural Design. Update Backlog as needed.		
16	Tuesday, Oct. 13	TBA		Sprint 2 Reports
17	Thursday, Oct. 15	Team Presentations - First Group Presentation of Architectural Design and updates to the Backlog. Teams will be randomly selected and as many as possible will present tonight. The remaining teams will present at the next class meeting.		
18	Tuesday, Oct. 20	Team Presentations - Second Group Presentation of Architectural Design and updates to the Backlog.	End of Sprint 3 Start of Sprint 4 Chapters 5-15	Sprint 3 Reports Architectural Design Backlog - Version 2 PowerPoint slides if used.

Sprint 4

19	Thursday, Oct. 22	The User Interface Lecture: <i>Principles of GUI Layout</i> Activity: Work on GUI Design.		
20	Tuesday, Oct. 27	The User Interface Activity: Work on GUI layout.		
21	Thursday, Oct. 29	The User Interface Activity: Report to supervisor on GUI layout.		Sprint 3 Reports
22	Tuesday,	Team Presentations - First Group Activity: Presentation of Preliminary GUI design.		

	Nov. 03	Teams who presented on the second class last time will present first this time.		
23	Thursday, Nov. 05	Team Presentations - Second Group Activity: Presentation of Preliminary GUI design.	End of Sprint 4 Start of Sprint 5	Sprint 4 Reports PowerPoint slides if used in presentation.











Sprint 5

24	Tuesday, Nov. 10	The Beta Release Activity: Status report to supervisor.		
25	Thursday, Nov. 12	The Beta Release Activity: Status report to supervisor on beta version.		
26	Tuesday, Nov. 17	Prepare for Delivery Activity: Status report to supervisor on final delivery.		Sprint 4 Reports
27	Thursday, Nov. 19			
	Tuesday, Nov. 17	Thanksgiving Week (BREAK)		
	Thursday, Nov. 26	Thanksgiving Week (BREAK)		
28	Tuesday, Dec. 01 (last day of class)	Team Presentations-Product Delivery - First Group Presentation of completed project to customer. Teams will be randomly selected and as many as possible will present tonight. The remaining teams will present at the next class meeting.		
	Thursday,	Team Presentations-Product Delivery - Second Group		

29	Dec. 03	Presentation of completed project to customer.	End of Sprint 5	Sprint 5 Reports
--	Tuesday, Dec. 08	End of course		<p>All source files, executables, web pages, pages, etc. appropriate for installation of final product.</p> <p>PowerPoint Slides if used.</p> <p>Exit surveys.</p>

Course Summary:

Date	Details
Tue Aug 18, 2020	 "Test" of CS 499 Zoom meeting https://uah.instructure.com/calendar?event_id=106905&include_contexts=course_48177 6pm to 6:30pm
Mon Aug 24, 2020	 Week 1 Individual Report https://uah.instructure.com/courses/48177/assignments/391386 due by 11:59pm
	 Week 1 Team Report https://uah.instructure.com/courses/48177/assignments/391387 due by 11:59pm
Mon Aug 31, 2020	 Week 2 Individual Report https://uah.instructure.com/courses/48177/assignments/391388 due by 11:59pm
	 Week 2 Team Report https://uah.instructure.com/courses/48177/assignments/391389 due by 11:59pm
Mon Sep 7, 2020	 Week 3 Individual Report https://uah.instructure.com/courses/48177/assignments/399670 due by 11:59pm
	 Week 3 Team Report https://uah.instructure.com/courses/48177/assignments/399669 due by 11:59pm

Fri Sep 11, 2020	 Software Development Plan (https://uah.instructure.com/courses/48177/assignments/391381)	due by 11:59pm
Wed Sep 30, 2020	 Requirements Definition Document (https://uah.instructure.com/courses/48177/assignments/426411)	due by 11:59pm
Wed Oct 21, 2020	 Architectural Design and Test Plan (https://uah.instructure.com/courses/48177/assignments/391377)	due by 11:59pm
Tue Nov 3, 2020	 GUI Presentations (First Set) (https://uah.instructure.com/calendar?event_id=99436&include_contexts=course_48177)	5:40pm to 6:55pm
Thu Nov 5, 2020	 GUI Presentations (2nd Set) (https://uah.instructure.com/calendar?event_id=99435&include_contexts=course_48177)	5:40pm to 6:55pm
Fri Nov 6, 2020	 GUI Demonstration and Updates (https://uah.instructure.com/courses/48177/assignments/391380)	due by 11:59pm
Mon Nov 23, 2020	 Thanksgiving Break BEGINS (https://uah.instructure.com/calendar?event_id=106208&include_contexts=course_48177)	12am
Thu Dec 3, 2020	 Exit Survey (https://uah.instructure.com/courses/48177/assignments/391378)	due by 11:59pm
Tue Dec 8, 2020	 Final Evaluation (https://uah.instructure.com/courses/48177/assignments/391376)	due by 6pm
	 Final Project Deliverable (https://uah.instructure.com/courses/48177/assignments/391379)	due by 11:59pm