Course syllabus

Jump to today

Instructor

Dr. Anita Sarma
Email: anita.sarma@oregonstate.edu (mailto:anita.sarma@oregonstate.edu)
Use 'CS 560' in the subject line for a response

Educational Method

This is not a lecture-oriented class. The class is very active-learning based. Thus, it will involve hands-on activities, paper reading, critiquing of papers, with student presentations and analyses regarding research papers and with a strong element of group critiques as work begins to emerge. No textbook -- we will be reading papers instead. There are no exams.

Remote Course Delivery Logistics

- All classes will be synchronously held. Attending classes is crucial, as we will have in-class tutorials as well as activities that are graded. If you foresee inability to join because of Internet issues please contact the instructor and I will see what arrangements can be made.
- All class sessions will be recorded and available for later use. So if you missed a class because of Internet issues then you can listen in or refer to it later.
- The Zoom Classroom setting is such that: 1) You need to be logged in to OSU/Zoom, 2) You will be placed in a waiting room and admitted to the main session when the class starts, 3) When you are placed into the classroom you will be in "mute" settings, 4) If you have questions please "raise your hand" and unmute yourself, and 5)when your question has been answered/discussed please mute yourself back.
- We will likely have breakout sessions to enable peer and/or group interactions
- All deliverables will be via Canvas. All deadlines are final.

Zoom Etiquette

You've had years to learn how to behave in a face-to-face classroom but what about an online classroom? Here are five easy-to-follow rules to ensure you are making the best virtual impression.

- **Clothing is NOT optional.** Remember that, even though you may be alone at home, your professor and classmates can SEE you! While attending class in your pajama bottoms is a tempting option, you'll want to make sure that you are presenting yourself in the best possible light at least from the waist up.

- **Be aware of your surroundings.** Your professor and classmates can also see BEHIND you. Find a place that is not distracting you (or your class).
- **Virtual background**. If you are using a virtual background, please be professional. Do not use backgrounds that are distracting, moving, or offensive to others. When in doubt, remember to not use a background that you will be ashamed to use when talking to your mom. Be mindful and respectful of your classmates when you select the background.
- **Mute is your friend.** Be sure to mute your microphone (lower left-hand corner) when you have just logged in/are not speaking/have finished your turn. This will help to eliminate background noise that could distract others.
- **Raise your hand and wait to be called upon.** If you wish to speak, either physically raise your hand or use the "Raise Hand" button at the center of the bottom of your screen. Once the teacher calls on you, unmute yourself and begin speaking. When you have finished speaking, indicate you are done by saying something like "That's all" or "Thank you" and then mute your microphone again.
- **If you don't have anything nice to say...**The Zoom chat feature is a tool to make comments and ask questions without interrupting the speaker but be aware that your comments are public (even the ones that are privately made to each other) and *are recorded* in the minutes of the session. As you most likely learned in your first face-to-face classroom back in kindergarten, "If you don't have anything nice to say, don't say anything at all."

These are unconventional and difficult times for everyone me, you, and your classmates. We are learning how best to cope with the remote setting as we go along. Let's try our best to make the best of this situation, learn the materials, help each other, and create a positive environment. I am here to help you learn, if you need to talk to me about difficulties you are facing inside or outside the classroom, please contact me (email or office hours).

Course objectives:

CS 560, Data-Driven Software Engineering, is a four-credit course for graduate students. This course will provide an overview of the different quantitative empirical research methods that can be used to research different aspects of software engineering. Any research or software development requires an empirical investigation of the nature of the problem that the tool or approach solves and an evaluation of the tool or process itself. In this class, you will learn about the different research methods and how they can be used for a particular software development process or tool.

The course will focus on the following topics: *mining of software repositories, user surveys, literature surveys, and data analysis from these three instruments*. The course materials will draw from both emerging research and from fundamentals established over the last 20+ years about how different methods can be applied to software problems, tools, and processes. Therefore, at the end of the class, students should come away with a fundamental understanding of the different approaches of performing empirical studies on software engineering aspects.

Course prerequisite

Graduate standing in CS and interest in software engineering. CS561 **is recommended**.

Course Policies

1) Announcements may be sent via multiple channels. Due dates of Canvas assignments override dates presented elsewhere.

2)Make-up exams/assignments can only be given only in the case of a documented emergency.

3)Unless otherwise stated, the assignments must be delivered via Canvas.

4)There is no "curve;" your grade is completely up to you and is not affected by the grades of your classmates.

5)There will be no round-up of grades.

6) Grading reviews must be requested within a week of the assignment or exam's return date. If you request a regrading the entire assignment can be regraded.

7) Canvas shows the “running grade.”

8) Late submissions will not be accepted, unless in exceptional cases.

9) Attendance is important. Attendance lists may circulate at random days. If you cannot attend classes due to Internet outage or health issues, please email me as soon as you can.

10) The instructor may share anonymized student assignments (or parts of them) with the class for didactic purposes.

11) Comments/criticisms aren’t personal, but part of the process.

12) Class conduct: just basic courtesy to show to me and our colleagues: show up on time, log-in to Zoom 5 min before class starts, wait to leave until the class is dismissed, ask to speak, avoid distractions, be polite. Important: Stay ENGAGED with the class and activities to get the most out of the class.

13) Contact: E-mail (use CS560 on the title); E-mail etiquette: salutation, body, closing

14) Office hours: It would be helpful if you drop an e-mail if you intend to come by.

17) Academic integrity: all work you submit for grading must be your own unless otherwise stated

Grading

This is the grading curve that will be used for this class:

A+ : 101 +	**A:** 93-100	**A-:** 90-92	
B+: 87-89	**B:** 83-86	**B-**: 80-82	
C+: 77-79	**C:** 73-76	**C-**: 70-72	
D+: 67-69	**D:** 63-66	**D-**: 60-62	**F:** 0-59

A minimum grade of C is required to get a Pass in the course (A grade 'C-' does NOT get you a pass)

The course is structured to include 45% individual assignments and 55% group assignments. See the Course Summary (below) and **Assignments** page for a distribution of grade points within the course.

Academic Misconduct

All homework assignments, quizzes, exams, etc. must be your own work. No direct collaboration with fellow students, past or current, is allowed unless otherwise stated. If we find you have plagiarized all or any part of your individual parts, both you and the person you plagiarized from (if from in the class) get an automatic 0. Plagiarism will not only affect your individual assignment grade, but also for the entire class as well as your OSU academic report. Please refer to COE Academic Misconduct guidelines **here (https://engineering.oregonstate.edu/academic-misconduct)** .

Special Needs

Students with disabilities are encouraged to contact **the instructor** for a confidential discussion of your individual needs for academic accommodation.

Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval please contact DAS immediately at 541-737-4098 or at **http://ds.oregonstate.edu (http://ds.oregonstate.edu/)** . DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations.

Establishing a Positive Community

Every student should feel safe and welcome to contribute in this course. As the instructor, I will try to establish this tone whenever possible, but ultimately the responsibility for cultivating a safe and welcoming community belongs to the students—that means you! This **page** talks more about this very important part of our education process.

Course summary:

Date	Details

Date	Details	
Fri, 9 Oct 2020	**Project Proposal** (https://canvas.oregonstate.edu/courses/1793778/assignments/8023184)	due by 23:59
Tue, 13 Oct 2020	**Paper Discussion 1** (https://canvas.oregonstate.edu/courses/1793778/assignments/8025951)	due by 23:59
Thu, 15 Oct 2020	**Paper Discussion 2** (https://canvas.oregonstate.edu/courses/1793778/assignments/8025952)	due by 23:59