

San José State University

Course and Contact Information

Recording Zoom Classes

This course or portions of this course (i.e., lectures, discussions, student presentations) may be recorded for instructional or educational purposes. The recordings will only be shared with students enrolled in the class through Canvas. The recordings will be deleted at the end of the semester. If, however, you would prefer to remain anonymous during these recordings, then please speak with the instructor about possible accommodations (e.g., temporarily turning off identifying information from the Zoom session, including student name and picture, prior to recording). Students are not allowed to record without instructor permission. Students are prohibited from recording class activities (including class lectures, office hours, advising sessions, etc.), distributing class recordings, or posting class recordings.

Instructor Materials

Materials created by 0.00000912 0 612 792 reW*W*nBpossible

1. Describe how identities (i.e. religious, gender, ethnic, racial, class, sexual orientation, disability, and/or age) are shaped by cultural and societal influences within contexts of equality and inequality.
2. Describe historical, social, political, and economic processes producing diversity, equality, and structured inequalities in the U.S.
3. Describe social actions which have led to greater equality and social justice in the U.S. (i.e. religious, gender, ethnic, racial, class, sexual orientation, disability, and/or age).
4. Recognize and appreciate constructive interactions between people from different cultural, racial, and ethnic groups within the U.S. .

Course Learning Outcomes (CLO)

By the end of the course each student should be able to:

Design Skills

1. Apply the complete product development process including:
 - a) Defining the problem/societal need, carrying out market study/economic and budget analyses
 - b) Developing a complete set of functional specifications the design solution must meet
 - c) Generating solution concepts
 - d) Selecting the most promising design concept using structured methodologies
 - e) Developing design models and/or drawings for prototype and final design components
 - f) Procuring, fabricating, and assembling prototype and final design hardware
 - g) Evaluating, testing, and analyzing prototype and final design components and systems
 - h) Identifying future modifications and improvements that could be made to the design based on test data
 - i) Writing a project report and making presentations
2. Develop a schedule, and meet schedule and budget constraints.
3. Interact effectively with vendors, suppliers, and shop personnel.

Communication Skills

4. Write high quality design reports (i.e., using correct language and terminology, correct technical information, and professionally prepared graphs and tables).
5. Give clear, informative, technically correct oral presentations using professionally prepared visual aids.

Team Skills

6. Work harmoniously and effectively on a team to complete a design project.

Self, Society, and Equality in the US

7. Describe how his or her identity and social interactions have been shaped by mobile technology (GELO 1)
8. Analyze how his or her engineering projects can produce diversity, equality, and structured inequalities in the U.S. (GELO 2)
9. Discuss how technology helps to promote greater equality and social justice in the U.S. among the disabled. (GELO 3)
10. Describe how mobile technology can promote constructive interactions between people from different cultural, racial, and ethnic groups within the U.S., OR how mobile technology widens the divide between from different cultural, racial, and ethnic groups within the U.S (GELO 4)

Required Texts/Readings

Textbook

None

Other Readings

Links to additional online readings will be posted online.

Course Requirements and Assignments

ME 195A involves extensive work in teams. You will develop design specifications and go through the phases of design. Successfully completing ME 195A means that you need to have a complete, optimized design at the end of ME 195A. Scheduling and spreading out your work evenly throughout the semester is a very important. You must attend all Wednesday sessions. Assignments are described on the next page.

Proposal and Progress Reports

The project proposal outlines the deliverables and specifications for your project. Follow the guidelines on the ME 195 website unless otherwise noted by your instructor. Progress reports may be required by individual instructors, and they will provide you with information about required format and due dates.

Presentations

Three group presentations are scheduled throughout the semester. All team members must present and be prepared to answer questions. Guidelines are shown on the [ME 195 website](#).

Individual Writing Assignments

These are assignments based on the seminar/online modules sessions. They are required of all students in ME 195A. Note that each assignment is worth 5% of your total grade, so put good effort into these papers. Assignment details are posted on Canvas. Students are encouraged to take a look at good example papers from last year as well as the grading rubric before beginning writing. Assignments must be submitted via Canvas.

***Note:** Any paper that contains significant spelling and/or grammar errors will be returned to you and not graded. Correct use of English is a fundamental requirement for your papers to be graded. If errors in English makes it difficult for a grader to understand your sentences, or excessively slow down the grader to mark your technical errors, your paper will be returned to you for further work on its English, and your grade for the paper will be deferred until it is resubmitted with corrected English. If your assignment is returned for an excessive number of grammatical errors, you will be allowed to rewrite and resubmit it within two weeks of the original return date. If not resubmitted by the end of two weeks, you will receive a zero (0) for the writing assignment. If your grade for an assignment is lower than 70%, as an option you will be allowed to rewrite it. You must resubmit it within two weeks of the original return date. In that case, the max grade you will be able to get for your particular rewrite is 87%.*

Final report (Final Evaluation)

Start your final report early (Week 6). Unless otherwise noted by your instructor, the final report should follow the format in the ME 195 website. Your final report should incorporate and discuss appropriate engineering standards/codes for your project. Consult your instructor to see which sections he or she wants you to complete. The final report serves as your final evaluation for the course, per university policy.

Individual Performance/Participation Evaluation

Your instructor will give you a score for your individual team contributions. Items that factor into this score may include team meeting participation, performance in presentations, individual contributions to the final report, and an individual performance evaluation form that each team member must complete. Your instructor will let you know which form to complete.

Expected time commitment

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally 3 hours per unit per week with 1 of the hours used for lecture) for instruction or preparation/studying or course related activities including but not limited to internships, labs, clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus.

Grading Information

A letter grade will be assigned to each student by the section instructor at the end of the semester and will be based on evaluation of the following course requirements:

- (5%) Project proposal and progress reports as required
- (25%) Delivery of at least three presentations on achievements and timely progress
- (15%) Individual writing assignments (three total)
- (40%) Final report and semester achievements
- (15%) Individual performance/participation evaluation

Grade Distribution

<i>Grade</i>	<i>Percentage</i>
<i>A</i>	<i>93 to 100%</i>
<i>A minus</i>	<i>90 to 92.9%</i>
<i>B plus</i>	<i>87 to 89.9 %</i>

Schedule is subject to change with fair notice via email. Assignments are due by 11:59 pm unless otherwise noted.

Week	Date	Topics, Readings, Assignments, Deadlines
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