

San José State University
Charles W. Davidson College of Engineering
Department of Mechanical Engineering
ME 295A, Mechanical Engineering Project I, Fall 2022

Course and Contact Information

Coordinator:	Dr. Raghu Agarwal
Office Location:	Engineering Building, Room 310D
Telephone:	408-924-3845
Email:	raghu.agarwal@sjsu.edu
Office Hours:	Tuesdays and Thursdays 3:00PM – 4:00PM and by appointment
Class Days/Time:	TBA
Classroom:	TBA
Sections	1-14

Prerequisites: Admission to Candidacy for Master’s Degree and written proposal approved by the instructor and graduate advisor.

Reference: Check the ME Department Website for MSME Program at <https://www.sjsu.edu/me/programs/ms-in-mechanical-engineering/index.php>

Course Description

Advanced individual work in mechanical engineering, including but not limited to research, design, development, and simulation studies.

Course Learning Outcomes (CLO)

Upon successful completion of this course, students will be able to:

1. Conduct a literature review on a topic of engineering research using a full range of information sources
2. Summarize findings and draw valid conclusions from engineering research
3. Present the results of research work in front of peers following accepted presentation methods
4. Document the results of research work in a detailed engineering report following accepted format and style guidelines

Required Texts/Readings

None

Course Requirements and Assignments

All ME 295A (first semester) students are required to have their project proposals approved by their committee chair, Graduate Program Adviser and Department Chair prior to the start of the semester in order to receive an enrollment permission number.

All the students are expected to:

- Make an end-of-the-semester presentation.
- Provide an end-of-the-semester report.

Course grades will be issued when the following items are received by the student's committee chair prior to the 'grades due date':

- A copy of semester report approved by the committee chair
- A copy of the approved 'Oral Presentation and Grade Form' by the committee members.
- Proof of regular consulting with the advisory committee.

Important dates:

- **Oct. 14:** Turn in a 2-page progress update report to the committee.
- **Nov. 25:** Turn in the draft report for initial evaluation to the committee.
- **Dec. 2-7:** Present the project to the committee.
- **Dec. 14:** Turn in the approved semester report.

Semester Report:

The semester report must be prepared and submitted to the committee chair and the committee members. The semester report must follow a professional report writing format, with proper grammar and composition. It must include sufficient review of the state-of-the-art literature, the application of modern tools, and the presentation of experimental or numerical results to date. Although not as complete as the final report that is submitted in ME 295B, the semester report should still be prepared professionally.

Except for replacing the words "thesis committee" with "project committee" and "thesis" with "project report", respectively, ME 295A/B report is expected to follow the same formatting guidelines as the SJSU M.S. thesis, as defined by College of Graduate Studies at:

<https://www.sjsu.edu/cgs/current-students/thesis-and-dissertation-information/>

For examples of these minor differences between theses and ME 295 reports, please ask your committee chair for past reports that you can mimic.

Grading Information

Evaluation criteria for grading are posted at <https://www.sjsu.edu/me/student-resources/forms/graduate.php> under "Thesis/Project Assessment Form A". Each criterion is evaluated by the project committee on a 0.0 to 4.0 scale (as in grade point averages), with 4.0 indicating "A", 3.0 indicating "B", etc.. At the committee's discretion, determination of scores may be conducted by committee consensus or by averaging of the ratings from each individual committee member.

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' [Syllabus Information web page](https://www.sjsu.edu/curriculum/courses/syllabus-info.php) at <https://www.sjsu.edu/curriculum/courses/syllabus-info.php>