

## Mechanical and Aerospace Engineering Department

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- Courses:** ME 295A Mechanical Engineering Project I  
ME 295B Mechanical Engineering Project II  
ME 299 ME Master's Thesis
- Semester:** Fall 2009
- Prerequisites:** Admission to Candidacy for Master's Degree and written proposal approved by instructor and Graduate Coordinator.
- Class Code #:** ME 295A 41496  
ME 295B 41498  
ME 299 41497
- Class Hours:** F 17:00-18:15, Room E 339
- Instructor:** Dr. Fred Barez, E310H, 408-924-4298, [fred.barez@sjsu.edu](mailto:fred.barez@sjsu.edu)
- Office Hours:** MW 15:00-17:30
- Course Description:** Advanced individual work in Mechanical Engineering including but not limited to research, design, development, and simulation studies.
- Grading:** Letter grades will be issued for the ME 295AB classes, while CR or NC for the ME 299 classes, subject to completion of all course requirements including: An approved proposal, MLK library search workshop, online tutorial, timely submission of written draft report, oral progress presentations, oral defense (final) presentation, and an approved final/end-of-the-semester report.
- Timelines:** See semester timeline
- Note:** This is the official course greensheet, which outlines all course requirements. For forms, go to: [http://www.engr.sjsu.edu/MAE/faculty\\_msproject.htm](http://www.engr.sjsu.edu/MAE/faculty_msproject.htm)

### Academic Integrity

Students in this course are expected to maintain high ethical standards in all matters pertaining to the course, including, but not limited to, course assignments, presentations, writing, laboratory work, treatment of class members, and behavior in class. Cheating and plagiarism are violations of the SJSU Policy on Academic Integrity (S04-12) and will not be tolerated in the class. Students are expected to have read the Policy, which is available at: <http://www2.sjsu.edu/senate/S04-12.pdf>

Plagiarism is defined as *the use of another person's original (not common-knowledge) work without acknowledging its source.*<sup>1</sup> Thus plagiarism includes, but is not limited to<sup>2</sup> :

Copying in whole or in part, a picture, diagram, graph, figure, etc. and using it in you work without citing its source

Using exact words or unique phrases from somewhere without acknowledgement

Putting your name on a report, homework, or other assignment that was done by someone else

In this class, particularly in writing your project report/thesis, you must be especially vigilant to avoid plagiarizing the work of others. You must properly and completely cite any and all information that you include in your report/thesis that is not common knowledge or does not originate from you. Many students are unaware that copying an image or a block of text from the Internet or other electronic resources, for example, and inserting it into their work without citation constitutes plagiarism.

Students are expected to familiarize themselves with how to avoid plagiarism. Several helpful resources can be found at:

<http://www.stanford.edu/dept/vpsa/judicialaffairs/students/plagiarism.sources.htm>

### **ME 295AB/299 Course Goals**

In ME 295/299 the students will learn how to:

1. Conduct engineering research
2. Apply mathematics appropriate for graduate level engineering research
3. Apply scientific principles and practices appropriate for graduate level engineering research
4. Apply engineering fundamentals appropriate for graduate level engineering research
5. Apply modern design, analysis, and experimental tools to the chosen research problem
6. Communicate the results of engineering research effectively in written form (final report) and in oral presentations

### **Student Learning Objectives**

At the end of the course, the student who has mastered the course material 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

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<sup>1</sup> Definition adapted from “Defining and Avoiding Plagiarism: The WPA Statement on Best Practices,” <http://www.ilstu.edu/~ddhesse/wpa/positions/WPAplagiarism.pdf> ; and “What is Plagiarism?,” <http://www.stanford.edu/dept/vpsa/judicialaffairs/students/plagiarism.sources.htm> .

<sup>2</sup> Adapted from, “Avoiding Plagiarism,” [http://owl.english.purdue.edu/handouts/research/r\\_plagiar.html](http://owl.english.purdue.edu/handouts/research/r_plagiar.html).