Courses: ME 295A Mechanical Engineering Project I
ME 295B Mechanical Engineering Project II
ME 299 ME Master’s Thesis

Semester: Fall 2013

Prerequisites: Admission to Candidacy for Master’s Degree and written proposal approved by instructor and Graduate Coordinator.


Class Code #: ME 295A 43631
ME 295B 43488
ME 299 40780

Class Hours: F 17:00-19:15, Room E 339
Instructor: Dr. Fred Barez, E310H, 408-924-4298, fred.barez@sjsu.edu
Office Hours: Monday and Wednesday 18:00-19:00

Course Description: Advanced individual work in Mechanical Engineering including but not limited to research, design, development, and simulation studies.

Grading: CR or NC only. CR will be issued subject to completion of all course requirements including an approved proposal, documented records of visits with Study Committee Chair and Members, timely submission of written draft and final semester reports, and oral presentations.

Expectations: All ME 295A/ME 299 (first semester) students are expected to have their project/thesis proposals approved by their Committee Chair, Graduate Program Coordinator and Department Chair prior to receiving a class permission code. Last Day to receive a permission code to add Friday 8/30/2103. No exceptions. All the students are expected to make an end of the semester presentation. All students are expected to provide an end of the semester report. Course grades will be issued when a copy of ‘report’ and approved committee’s ‘oral presentation grade form’ are turned in by the Committee Chair to the course instructor prior to the ‘grades due date.’ All students are expected to work with their committee members in order to stay on track using the ‘consultation’ form. All students are expected to work with their committee members to schedule a presentation time, preferably on December 10, 2013. Have your committee members to reserve 12/10/2103 for end of the semester Presentations. All students are expected to turn in a ‘draft report’ for initial evaluation to their committee members two weeks before the last day of instructions (11/25/ 2012) and the approved final report by the last day of finals (12/17/ 2012). All students are expected to contact
the ME Department Admin. Lilly Wilderman to schedule their presentation by Monday **12/2/2013**. Final ‘Report’ to the Course Instructor (Dr. Fred Barez) is due on 12/17/2013 in order for him to issue the course grade.

**Important Dates:**

- Last Day to receive a permission code to add, **Friday 08/30/2013**
- Last Day to Drop, **Tuesday 09/03/2013**
- Last Day to Add, **Tuesday 09/10/2013**
- Report ‘Rough Draft’ due to Committee Members, **Monday 11/25/2013**
- Day to Contact Lilly Wilderman to Schedule Presentations, **Monday 12/2/2013**
- End of the Semester Presentation Day, **Monday 12/10/2013**
- Final Approved Report Due to Course Coordinator, **Tuesday 12/17/2013**

All ME 295B and ME 299 (second Semester), are expected to complete their study during this period including submission of the approved by all committee members to the Course Coordinator, Dr. Fred Barez, per the dates outlined under ‘Important Dates’ above.

**NOTE TO ME 299 Second Semester Students:** Your submission date of the ‘final’ approved thesis to the Graduate Studies and Research (GR&R) is October 31, 2013 if you plan to graduate in December 2013. This means the ‘FINAL APPROVED COPY’ not a rough draft. Your final ‘rough draft’ is due to the Committee Members no later than Friday October 11, 2013.

**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
   - Apply scientific principles and practices appropriate for graduate level engineering research
3. Apply engineering fundamentals appropriate for graduate level engineering research
4. Apply modern design, analysis, and experimental tools to the chosen research problem
   - 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
**University Policies and Academic Calendar**

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s [Catalog Policies](http://info.sjsu.edu/static/catalog/policies.html) section at [http://info.sjsu.edu/static/catalog/policies.html](http://info.sjsu.edu/static/catalog/policies.html). Add/drop deadlines can be found on the [current academic calendar](http://www.sjsu.edu/academic_programs/calendars/academic_calendar/) web page located at [http://www.sjsu.edu/academic_programs/calendars/academic_calendar/](http://www.sjsu.edu/academic_programs/calendars/academic_calendar/).

The [Late Drop Policy](http://www.sjsu.edu/aars/policies/latedrops/policy/) is available at [http://www.sjsu.edu/aars/policies/latedrops/policy/](http://www.sjsu.edu/aars/policies/latedrops/policy/). Students should be aware of the current deadlines and penalties for dropping classes.

**University Policies**

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the [Disability Resource Center](http://www.drc.sjsu.edu/) at [http://www.drc.sjsu.edu/](http://www.drc.sjsu.edu/) to establish a record of their disability.

**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](http://www2.sjsu.edu/senate/S04-12.pdf)

Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The [Student Conduct and Ethical Development website](http://www.sa.sjsu.edu/judicial_affairs/index.html) is available at [http://www.sa.sjsu.edu/judicial_affairs/index.html](http://www.sa.sjsu.edu/judicial_affairs/index.html).

Plagiarism is defined as: 1
the use of another person’s original (not common-knowledge) work without acknowledging its source.

Thus plagiarism includes, but is not limited to:

Copying in whole or in part, a picture, diagram, graph, figure, etc. and using it in your 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](http://www.stanford.edu/dept/vpsa/judicialaffairs/students/plagiarism.sources.htm)