

San José State University
Charles W. Davidson College of Engineering
DEPARTMENT OF ELECTRICAL ENGINEERING
EE297A - MSEE Project Proposal (Fall 2017)

Course and Contact Information

- Instructor:** Project Advisors.
Your EE297A advisor(s) will also be your EE297B advisor(s). In special circumstance that you must change your project advisor(s), approvals from current project advisors and Graduate Coordinator are required. Your EE297A advisor can deny to serve as your EE297B advisor based on your performance. In this special circumstance, you need to discuss with Graduate Coordinator to resolve the issue.
- Class Days/Time:**
- Meet the Graduate Coordinator on the **first Friday of the semester** as shown on the "Tentative Course Schedule" on the last page of the syllabus. Other meetings will be announced via emails by Graduate Coordinator. **All meetings with Graduate Coordinator will be on Fridays from 12:00 to 12:30 in E345**
 - Have regular meetings with your project advisor(s) throughout the semester as scheduled by your project advisor(s)
 - Will receive several emails from Graduate Coordinator. Make sure to follow the instructions and required submissions stated in the syllabus, in the emails, and in meetings with Graduate Coordinator. **Strict rules will be applied to the course.**
- Prerequisites:** **Classified** with **overall GPA and major GPA of 3.0 or above**. Satisfaction of GWAR or completion of EE295 or EE295 to be taken concurrently. Having plan to graduate in 2 semesters (EE297A & EE297B or should be taken in the last two semesters)
- Project Team** **Maximum number of students per project is two (2)**. Your project advisor can break a large project into several smaller projects such that no more than two students per project.
- Enrollment** Enroll into EE297A by filling out EE297A Application form and submit the form to EE office for addcode. The EE297A application form is available at link below:
<http://ee.sjsu.edu/files/public/Documents/MSEE/Forms/EE297Aform.pdf>
- Grading Scheme** CR/NC (Credit/Non-credit)

Course (Catalog) Description

Written project proposal development for research/design project, subsequently culminating the MSEE work in EE 297B or EE 299B. An approved application for EE 297A registration including project title and abstract and graduate seminar participation required.

Note: The proposal format and contents are defined by your project advisor, but the proposal must have the proposal cover page downloaded from class canvas, or it will be rejected. The master project proposal guidelines and cover pages are both available at on class canvas.

Course Learning Outcomes

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

- Understand and practice critical thinking
- Understand requirements and translate them to a specification
- Understand capabilities and limitations of engineering methods and tools
- Demonstrate an ability to use industry acceptable methods to specify, plan, design, debug, and demonstrate a project concept.
- Use critical thinking to add something to the art of engineering.
- Prepare readable well organized documentation describing what is to be done, how it is to be done, why an approach is recommended, and instruct, inform, and enlighten other engineers.

Critical thinking has been described as:

A person who thinks critically can ask appropriate questions, gather relevant information, efficiently and creatively sort through this information, reason logically from this information, and come to reliable and trustworthy conclusions about the world that enable one to live and act successfully in it. ... critical thinking mimics the well-known method of scientific investigation: a question is identified, an hypothesis formulated, relevant data sought and gathered, the hypothesis is logically tested and evaluated.

Students who can think critically can:

- ✓ Determine what information is required to achieve an objective, find that information, and apply it
- ✓ Create designs from limited information
- ✓ design tests that can prove that a design meet a specification
- ✓ identify design errors, and adjust a design to meet specifications
- ✓ Ask meaningful questions after exhausting available resources when seeking help.

A course goal is students learn to enjoy a master project through a *hand-on* approach.

Student Preparedness

Students are expected to have previously taken courses in the project area of interest. They should have contacted a faculty adviser, and be working towards project acceptance.

Textbook

There is no text book for EE297A.

Course Requirements and Assignments

- Meet with project advisor as required and/or scheduled by the project advisor
- Perform research and report to project advisor as required by the project advisor
- Complete and submit (on canvas and hard-copy) on time (see the schedule on the last page) a project proposal approved by project advisor and Graduate Coordinator
- Implement an initial phase of the project and is evaluated as satisfaction by project advisor

Grading Information - Outcome Assessment

The grading for EE297A is CR/NC/RP (Credit/No-Credit/Report Pending). To achieve credit in the class, a student must

- Complete and submit (on canvas and hard-copy) on time (see the schedule on the last page) a project proposal approved by his/her project advisor and Graduate Coordinator.
- Be evaluated as satisfaction by his/her project advisor based on his/her performance in implementing the initial phase of the project work

Time commitment

- Students are expected to spend about 1 hours/week in meetings with advisers, invest about 40 hours total in proposal writing, and dedicate about 120 hours to initial project work during the semester.
- In addition, policy S12-3 makes the following statement: *“Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of forty-five 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 practical. Other course structures will have equivalent workload expectations as described in the syllabus.”*
- EE297A will exceed this minimum requirement.

Classroom Protocol

N/A

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](http://www.sjsu.edu/gup/syllabusinfo/) at <http://www.sjsu.edu/gup/syllabusinfo/>”

EE Honor Code - Honesty and Respect for Others and Public Property

The Electrical Engineering Department will enforce the following Honor Code that must be read and accepted by all students.

“I have read the Honor Code and agree with its provisions. My continued enrollment in this course constitutes full acceptance of this code. I will NOT:

- Take an exam in place of someone else, or have someone take an exam in my place
- Give information or receive information from another person during an exam
- Copy project information from others
- Use more reference material during an exam than is allowed by the instructor
- Obtain a copy of an exam prior to the time it is given
- Alter an exam after it has been graded and then return it to the instructor for re-grading
- Leave the exam room without returning the exam to the instructor.”

Measures Dealing with Occurrences of Cheating

- Department policy mandates that the student or students involved in cheating will receive an “F” on that evaluation instrument (paper, exam, project, homework, etc.) and will be reported

to the Department and the University.

- A student’s second offense in any course will result in a Department recommendation of suspension from the University.

EE297A - MSEE Project Proposal (Fall 2017) Tentative Course Schedule

Dates can be changed with notices by emails from Graduate Coordinator

Week #	Topic
1	Meeting with Graduate Coordinator regarding class syllabus, policies, deliverables, due dates, etc... Friday August 25, 12:00 – 12:30, room E345
2 & 3	Meetings with your project advisor to develop an abstract for EE297A application form (<i>project advisor's signature is required on EE297A application form</i>)
3	Friday September 08 (before 12:00 PM): Last day to submit EE297A application form to EE office for EE297A addcode
4	Wednesday September 13: Last day to add courses
4 – 8	Meetings with your project advisor to develop a comprehensive proposal for your MSEE project
8	Friday October 13 (before noon): Last day to <ul style="list-style-type: none"> · Submit softcopy of your final project proposal on CANVAS · Submit hard-copy of your final project proposal to Graduate Coordinator by dropping off the proposal in EE office <i>Note:</i> <ul style="list-style-type: none"> · <i>Project advisor's signature is required on the hard-copy of the proposal. No need to have signature on the soft-copy</i> · <i>No need to have Graduate Coordinator's signature on the submitted proposal</i> · <i>The proposal must have the proposal cover page downloaded from canvas or it will be rejected</i>
9 - 16	Continue to work on the project (<i>evaluation from project advisor is required for EE297A grading</i>)