

San José State University  
Charles W. Davidson College of Engineering  
**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**EE299A - MSEE Thesis Proposal (Spring 2018)**

## Course and Contact Information

- Instructor:** Thesis Committee Chair.  
*Your EE299A thesis committees will also be your EE299B committees. In special circumstance that you must change any member of your thesis committee, approvals from current Thesis Committee Chair and Graduate Coordinator are required.*  
**Your EE299A Thesis Committee Chair can deny to serve as your EE299B Thesis Committee Chair 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 11:45 to 12:15 in E345**
  - Have regular meetings with thesis committee chair throughout the semester as scheduled by the thesis committee chair
  - 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 courses.**
- Prerequisites:**
- GPA Requirement:** Students admitted Fall 17 and after should be classified with an overall GPA 3.3 or above (Graduate coordinator can waive this requirement under certain conditions). Students admitted before Fall 17 should be classified with an overall GPA of 3.0.
- GWAR Requirement:** 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)
- Team** **Only one (1) student per thesis.** Group work is NOT allowed for thesis.
- Enrollment** Enroll into EE299A by filling out EE299A Application form and submit the form to EE office for addcode. The EE299A application forms are available at link below:  
<http://ee.sjsu.edu/files/public/Documents/MSEE/Forms/ee299aform.pdf>
- Grading Scheme** CR/NC (Credit/Non-credit)

## Course (Catalog) Description

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

*Note: The proposal format and contents are defined by your thesis committee chair, but the proposal must have proposal cover page downloaded from class canvas, or it will be rejected. The master thesis proposal guidelines and cover pages are both available on the 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 thesis through a *hand-on* approach.

### Student Preparedness

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

## **Textbook**

There is no text book for EE299A.

## **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 EE299A 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 thesis 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.”*
- EE299A 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 thesis 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.

**EE299A - MSEE Thesis Proposal (Spring 2018)**  
**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... <b>Friday January 26, 11:45 – 12:15, room E345</b>
2 & 3	Meetings with your thesis committee chair to develop an abstract for EE299A application form ( <i>thesis committee chair's signature is required on EE299A application form</i> )
3	<b>Friday February 9 (before 12:00 PM):</b> Last day to submit EE299A application form to EE office for EE299A addcode
4	<b>Monday February 12:</b> Last day to add courses
4 – 8	Meetings with your thesis committee chair to develop a comprehensive proposal for your MSEE thesis
8	<b>Friday April 13 (before noon):</b> Last day to <ul style="list-style-type: none"> <li>· Submit softcopy of your final thesis proposal on CANVAS</li> <li>· Submit hard-copy of your final thesis proposal to Graduate Coordinator by dropping off the proposal in EE office</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>· <i>Thesis Committee Chair's signature is required on the hard-copy of the proposal. No need to have signature on the soft-copy</i></li> <li>· <i>No need to have Graduate Coordinator's signature on the submitted proposal</i></li> <li>· <i>The proposal must have the thesis proposal cover page downloaded from canvas or it will be rejected</i></li> </ul>
9 - 16	Continue to work on the thesis ( <i>evaluation from thesis committee chair is required for EE299A grading</i> )