Course and Contact Information

Instructor: Your Thesis Advisors. Your EE299B advisor(s) must also be your EE299A advisor(s). In special circumstance that you must change your thesis advisor(s), approvals from thesis advisors and Graduate Coordinator are required. Your EE299A advisor can deny to serve as your EE299B 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 (January 25, 2019, from 1:00 to 1:30, in room ENG 345). Other meetings will be announced via emails by Graduate Coordinator. All meetings with Graduate Coordinator will be on Fridays from 1:00 to 1:30 in E345.
· Have regular meetings with your thesis advisor(s) throughout the semester as scheduled by your thesis 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: Good standing (both overall GPA and GPA on Candidacy form are 3.0 or above), EE297A or EE299A with grade CR, EE295 with grade C or above or satisfaction of GWAR.

Enrollment Enroll into EE299B by requesting for an addcode from the EE department office. Proof of passing EE297A/EE299A is required (show your unofficial transcript to EE office staff).

Grading Scheme CR/NC/RP (Credit/Non-credit/Report Pending). Read the "Grading Information - Outcome Assessment" section on this syllabus.

Course Description

EE299B is a course designed to help students complete a culminating experience master thesis. Students complete this course by completing all work required by their thesis advisor(s) and (on-time) submitting an approved thesis report, similarity report from turn-it-in, power-point presentation slides, and thesis poster for Student Projects Symposium event. Your advisor must set up a private oral presentation for you with members of thesis committee. The work is under the direction of thesis advisor(s) and there is not EE299B class instruction. The EE Graduate Coordinator will coordinate document submission and the Student Project Symposium Chair will coordinate the EE299B posters.

Note: Thesis committee chair must be a full-time EE faculty. Thesis committee members can be part-time faculty or a faculty from other department.
Course Learning Outcomes

Upon successful completion of this course, students will be able to:
- Strengthen their critical thinking skills
- Develop skills for planning and scheduling a significant project
- Plan and manage their time for a project effectively
- Prepare documents without plagiarism
- Communicate written engineering concepts clearly
- Orally present project concepts effectively
- Work as productive members of an industrial team
- Continue to further PhD studies

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, a 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.

Textbook

There is no textbook for EE299B

Course Requirements and Assignments

- Meet with thesis advisor as required and/or scheduled by the thesis advisor
- Continue to study/implement the thesis proposed in EE299A. The implementation or study process needs to be regularly checked and evaluated as satisfaction by the thesis advisors
- Complete and submit on time all required documents (see the "Required Submissions" and "Tentative Course Schedule") approved by thesis advisors
- Attend and present the thesis at the Student Project Symposium

Course Plan, Expected Work Load, Goals, Objectives …

EE299B is a 3 unit class. Students should spend 3 hours directed by their advisor each week. Some advisors meet with students in a group setting and some prefer to meet with each team separately. The advisor time will most likely be back loaded with proposal revisions and project reviews. In addition, EE299B students are expected to spend approximately 15 to 30 hours per week on research, development, debug, and document writing.
Responsibilities

EE299B is a thesis class. The responsibilities are divided between the Graduate Coordinator, student project symposium chair, the student, and faculty thesis committee. The following table lists the responsibilities of each party during EE299B

<table>
<thead>
<tr>
<th>What</th>
<th>Graduate Coordinator</th>
<th>Proj. Symp. Chair</th>
<th>Proj. /Thesis Advisor</th>
<th>Student</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time management</td>
<td>A R</td>
<td></td>
<td></td>
<td></td>
<td>Must be <strong>strictly on time</strong></td>
</tr>
<tr>
<td>Thesis completion</td>
<td>A R</td>
<td></td>
<td></td>
<td></td>
<td>Advisor can be a good resource</td>
</tr>
<tr>
<td>Thesis submission</td>
<td>F A R</td>
<td></td>
<td></td>
<td></td>
<td>Student completes, advisor approves, student submits</td>
</tr>
<tr>
<td>Grammar check</td>
<td>A R</td>
<td></td>
<td></td>
<td></td>
<td>Use grammar checker(s)</td>
</tr>
<tr>
<td>Plagiarism check</td>
<td>F A R</td>
<td></td>
<td></td>
<td></td>
<td>Submit to canvas</td>
</tr>
<tr>
<td>Presentation schedule</td>
<td>F M M</td>
<td></td>
<td></td>
<td></td>
<td>Student prepares &amp; submits</td>
</tr>
<tr>
<td>Poster</td>
<td>F A R</td>
<td></td>
<td></td>
<td></td>
<td>Student prepares &amp; submits</td>
</tr>
<tr>
<td>Presentation slides</td>
<td>F A R</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thesis grade</td>
<td>R R M</td>
<td></td>
<td></td>
<td></td>
<td>Thesis Advisor must ensure grade to be submitted to Graduate Coordinator on time</td>
</tr>
</tbody>
</table>

Required Submissions

Requirements for EE299B submission are listed as below. Due dates for these submissions are listed on the "Tentative Course Schedule" on the last page of the syllabus.

**Important Notes for EE299B Students:** Besides the department submission requirements and deadline stated, thesis students must also comply with university submission requirements and deadlines. Follow the instructions from SJSU Graduate Studies & Research office regarding the steps for completing a master's thesis at [http://www.sjsu.edu/gradstudies/thesis/](http://www.sjsu.edu/gradstudies/thesis/)

Grading Information - Outcome Assessment

Students who did not submit completed set of thesis documents (thesis report, turn-it-in summary report, presentation slides, poster, etc…) or failed to submit them on time or did not complete the poster presentation will automatically receive grade NC (no credit) and must repeat the class. A student who completed the submission and poster presentation will have his/her grade assigned by the thesis advisor. Each advisor has his/her grading standard. Many advisors feel a passing grade requires preparation for publication. Each student should consult with their thesis advisor to determine the advisors grading standards. Not all students will receive a passing grade. The advisor will access the quantity and quality of the work performed. Students who fail to complete the thesis will be given the fail grade

**Report Pending (RP) grade** will be given only for unforeseen circumstances with supporting documentation (Doctors letter, request for thesis revision from GSR office, etc.) per University policy. Note that work, internships, other coursework, marriages, visas, or failure to complete the thesis on time will not be considered as unforeseen circumstances. In order to be considered for "RP" grade, student must fill-out a "RP Grade Agreement" form at
https://ee.sjsu.edu/webdav/downloadable_forms/RP-Grade-for-EE299-Form.pdf and have thesis committee chair's approval. A student who received RP grade in a preceding semester in a thesis class and completed all other course-work required for MSEE degree will be required to enroll for 1-unit EE1290R Special Session course to continue your student status.

**Timely submission**

It is important you submit your work on time. Most students require several revisions of the report, both for grammar as well as technical content revision. Your advisors are very busy at the end of the semester. It may take them several weeks to review and comment on your report. Don't waste your advisors time by submitting a poorly written report with many grammar errors. Many students run out of time, and try to do the report quickly. It is then rejected, and revisions are required. You should have a draft report ready at least 3 weeks before the final submission. Many advisors are very busy during the last 2 weeks of instruction and are hard to find after the last day of instruction (are very busy in grading exams and preparing grades.) There are no office hours after the last day of instruction until the first day of instruction the following semester. Timely submission is your responsibility. Talk to your advisor to determine how much time they will need to review your paper. Think about your past writing, and plan time for revisions so you can be proud to have others see your work. The EE department may publish your report on the web. Use the automated tools to ensure your paper is free of grammar errors, and has no plagiarism problems before submitting to your advisor.

**Time and thesis management**

Students are expected to develop and practice time management skills. The thesis is a major work with limited instruction and instructor management. Students are expected to invest approximately 400 hours in their thesis work. This work cannot be done in a few weeks or at the last minute. Each student is expected to complete the proposed thesis. Significant time management maturity is required to complete a thesis during an internship or while working. Students are expected to plan and execute for success. Last minute thesis scope changes may result in significant problems. Students are responsible to manage their thesis to success.

**Advice on Report format**

The guidelines for M.S. thesis report and proposal are on the EE department website at http://ee.sjsu.edu/content/projectthesis-guidelines. Follow the format described in the “Master’s Thesis Guidelines” at: http://www.sjsu.edu/gradstudies/docs/thesis_guidelines.pdf. Reports typically have about 100 pages of written text. This does not include tables of content, code listings, figures, drawings, schematics, simulation plots, etc. Many students fall into a trap of just placing a number of figures at the end of the document, and hope no one reads the report. Every figure should have at least ½ the figure height of text explaining the figure. If you have nothing to say beyond the title for the figure/table, then you should discuss why the figure needs to be in the report, and not in an appendix. These reports will be published, and you and your advisor should be proud of your work and willing to show the world what you have done.

**Advice on paraphrasing/plagiarism**

Some students plagiarize unintentionally because they do not use proper paraphrasing. You CANNOT copy anything directly from another source, even something as small as a part of sentence. Also, changing a word or two in a sentence is NOT proper paraphrasing. You need to take a concept and completely re-write it in your own words and style, and reference the location of the source of the concept. To improve your paraphrasing, when you read a paper or website, take detailed notes and
write everything down in your own words. Then when you write your paper, use only your notes, not the original sources.

**University Policies**

Office of Graduate and Undergraduate Programs maintains university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc.” You may find all syllabus related University Policies and resources information listed on GUP’s Syllabus Information web page 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.
## Tentative Course Schedule

*Dates can be changed with notices by emails from Graduate Coordinator*

<table>
<thead>
<tr>
<th>Due Date</th>
<th>Topic</th>
</tr>
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<tbody>
<tr>
<td>Tuesday, February 12</td>
<td>Last day to add courses</td>
</tr>
<tr>
<td>Feb 12-April 2</td>
<td>Defend your thesis to your committee. Your advisor should send an email to committee members and graduate coordinator to announce the date/time and location of defense.</td>
</tr>
<tr>
<td>April 2 (FALL graduation)</td>
<td>University Deadline for submitting your thesis for review. Incase you can not catch this deadline, Summer semester deadline is July 1, 2019. Submit also a copy of your initial thesis and presentation slides on Canvas.</td>
</tr>
<tr>
<td>May 3</td>
<td><strong>May 3:</strong> Last day to submit thesis* and <strong>poster</strong> on Canvas</td>
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<tr>
<td></td>
<td>* If your thesis is not ready because you plan to graduate next semester, submit a draft or a recent related publication.</td>
</tr>
<tr>
<td>Saturday, May 11</td>
<td><strong>Attend Student Project Symposium and present your work (attendance will be taken by graduate coordinator).</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Printing:</strong> You will print their own poster to the size of 36&quot; x 48&quot;. Any major printing center can print posters of that size.</td>
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<tr>
<td></td>
<td><strong>Poster mounting:</strong> Students will mount printed poster on tri fold boards before arriving for the event. You need to buy a 36&quot; x 48&quot; tri fold board.</td>
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<tr>
<td></td>
<td><strong>Table space:</strong> You will be given 3FT x 2.5FT of table space along with outlet access. The space is for project demo and poster display.</td>
</tr>
<tr>
<td></td>
<td><strong>Attire:</strong> Business formal or business casual is recommended.</td>
</tr>
<tr>
<td>Friday, May 24 (Fall</td>
<td><strong>Submit a hardcopy-binded version of your final thesis to the graduate coordinator. It should also contain the signatures of your thesis committee members.</strong></td>
</tr>
<tr>
<td>semester grades due)</td>
<td><strong>Submit a copy of your poster and thesis presentation on Canvas.</strong></td>
</tr>
<tr>
<td>June 10, 2019 by 11:59PM</td>
<td>University deadline for submitting your thesis for publication. Submit also a copy of your final thesis on Canvas.</td>
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</table>