

ECE GRADUATE STUDENT ORIENTATION

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ECE DEPARTMENT CHAIR
GRADUATE COORDINATOR

MS in Electrical or Computer Engineering

1: Classification

2: Course Requirements

3. Graduate Thesis/Project

4: Application for Graduation

5: General Rules

MS in Electrical or Computer Engineering

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1. Classification

- At admission, if your status is **conditionally classified**
 - Request for classification status if you have submitted your official transcript to CSUN Admissions and Records Office
 - Email me your CSUN ID number and I will request classification status for you

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2. Course Requirements -- MSEE

- **Required Core Courses (13 units)**
- **Engineering Mathematics -- Select one course from the following:**
 - [ECE 580 Digital Control Systems \(3\)](#)
 - [ECE 650 Random Processes \(3\)](#)
 - [ECE 582 State Variable Control \(3\)](#) -- will be added in fall 2024
- **Engineering Physics -- Select one course from the following:**
 - [ECE 545 Solid State Devices \(3\)](#)
 - [ECE 571 Electromagnetic Fields and Waves II \(3\)](#)
 - [ECE 578 Photonics \(3\)](#)
- **Engineering Circuits -- Select one course from the following:**
 - [ECE 524/L FPGA/ASIC Design and Optimization Using VHDL and Lab \(3/1\)](#)
 - [ECE 526/L Digital Design with Verilog and System Verilog and Lab \(3/1\)](#)
 - [ECE 540/L Analog IC Design \(3/1\)](#)
- **Engineering Systems -- Select one course from the following:**
 - [ECE 501 Introduction to Biomedical Engineering \(3\)](#)
 - [ECE 511 Distributed Energy Generation \(3\)](#)
 - [ECE 561 Digital Communication Systems \(3\)](#)

MSEE Course Requirements

- Elective Courses (11-14 units) – ECE courses in
 - **Biomedical Engineering**
 - **Communications Engineering**
 - **Control Engineering**
 - **Digital and Computer Engineering**
 - **Electronics, Solid State Devices and Integrated Circuit Engineering**
 - **Microwave and Antenna Engineering**
 - **Power Systems Engineering**
 - Course lists: <https://catalog.csun.edu/academics/ece/programs/ms-electrical-engineering/>
- Culminating Experience (3-6 units)
 - **Thesis Plan (3-3 units)**
 - **Project Plan (3 units)**

MSCompE Course Requirements

- **Required Courses (14 units)**

- ECE 520/L System on Chip Design and Laboratory (3/1)
- ECE 524/L FPGA/ASIC Design and Optimization Using VHDL and Lab (3/1)
or ECE 526/L Digital Design with Verilog and System Verilog and Lab (3/1)
- ECE 620 Advanced Switching Theory (3)
- ECE 622 Digital System Structure (3)
or ECE 621 Computer Arithmetic Design (3) -- will be added in Fall 2024

- **Electives (10-13 units)**

- **Select a minimum of 6 units from the following courses:**

- COMP 529/L Advanced Network Topics and Lab (2/1)
- COMP 541 Data Mining (3)
- COMP 542 Machine Learning (3)
- COMP 560 Expert Systems (3)
- COMP 565 Advanced Computer Graphics (3)
- COMP 587 Software Verification and Validation (3)
- COMP 620, COMP 522 will be added

MSCompE Course Requirements

- **Electives (10-13 units)**

- **Other Allowed Electives**

- **Electrical and Computer Engineering Courses**

- [ECE 420/L Digital Systems Design with Programmable Logic \(3\)](#)

- [ECE 422/L Design of Digital Computers \(3\)](#)

- [ECE 425/L Microprocessor Systems and Lab \(3/1\)](#)

- [ECE 442/L Digital Electronics and Lab \(3/1\)](#)

- [ECE 443/L Pulse and Waveshaping Circuit Design and Lab \(3/1\)](#)

- [ECE 527/L Application Specific Integrated Circuit Development and Lab \(3/1\)](#)

- [ECE 537 Deep Learning for Pattern Recognition \(3\)](#)

- [ECE 546 Very Large Scale Integrated Circuit Design \(3\)](#)

- [ECE 551 Image Processing \(3\)](#)

- [ECE 562 Data Communication Networks \(3\)](#)

- [ECE 621 Computer Arithmetic Design \(3\)](#)

- [ECE 623 Diagnosis and Reliable Design of Digital Systems \(3\)](#)

- [ECE 624 Digital Systems Design Automation and VHDL Modeling \(3\)](#)

- [ECE 635 Error Detection and Correction Systems Design \(3\)](#)

- **Computer Science 400-Level or 600-level Courses**

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3. Graduate Thesis/Project

Forming Graduate Program Committee:

- **Graduate Course Plan**

- Project Plan (Enroll ECE 698C once) -- 3 units
- Thesis Plan (Enroll ECE 698C twice in two separate semesters) -- 6 units

- **Graduate Project/Thesis Committee (3 members)**

- Committee Chair – the main advisor who supervises your project/thesis
- Two committee members --to assist your main advisor
 - One must be an ECE faculty
 - The other may or may not be a faculty member of ECE, but needs have a Ph.D. degree in your area of study

Graduate Course Plan

- **Project Plan**

- 27 units of course work
- 3 units of graduate project

- **Thesis Plan**

- 24 units of course work
- 6 units of graduate thesis (3 units per semester)

2. Graduate Thesis/Project

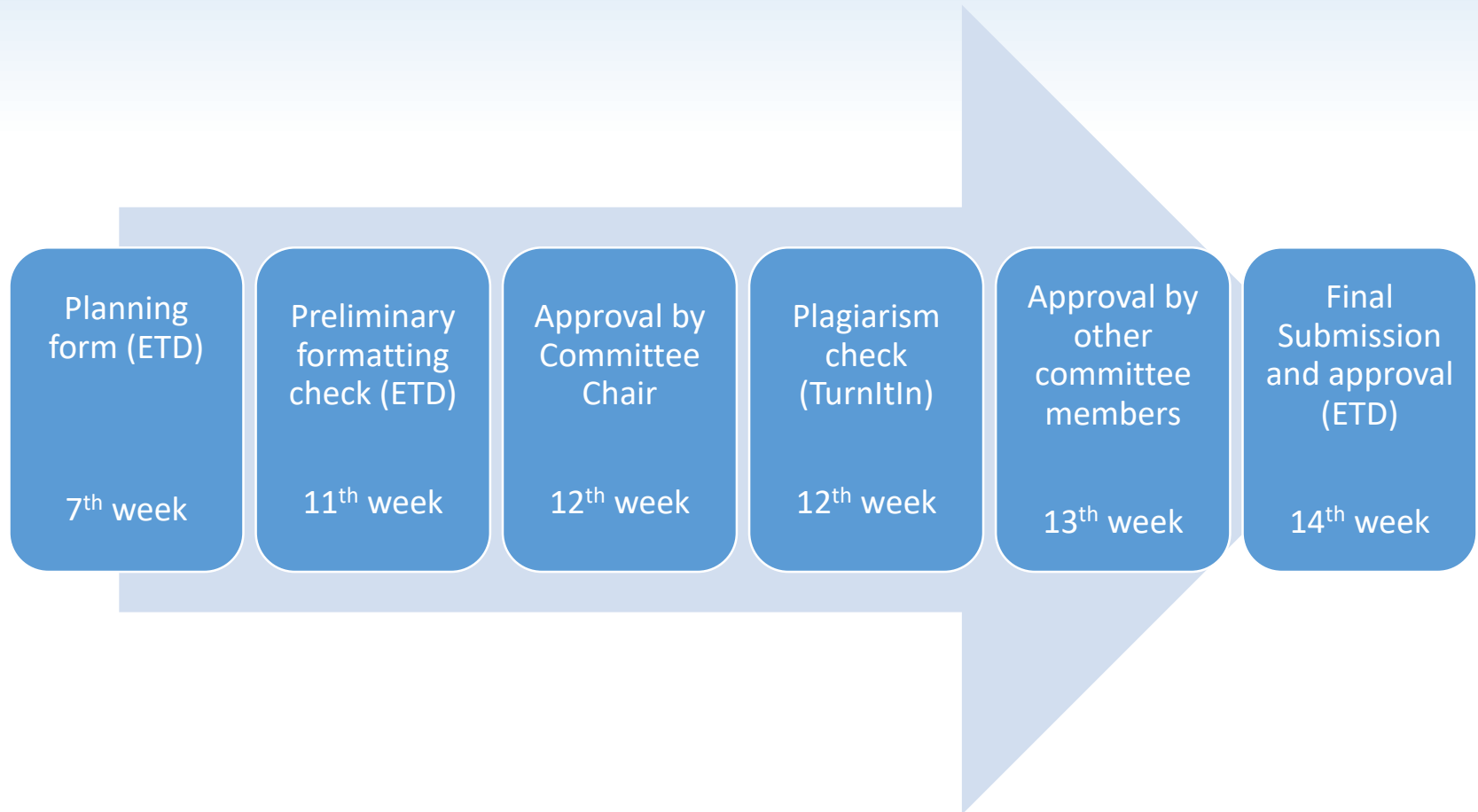
Procedure of Completing Graduate Thesis/Project

- Step 1: Find an advisor and form a Graduate Thesis/Project committee
- Step 2: Submit **Thesis/Graduate Project Planning form** online at the Electronic Thesis And Dissertation web site (ETD.csun.edu).
 - Submission is due no later than **the 7th week of the semester you graduate**
 - Inform your committee members to approve the form
 - Any change in the Thesis/Project committee or the topic after Filling will require the submission and approval of another **Thesis/Graduate Project Planning form**.

2: Graduate Thesis/Project

- Step 3: Submit the draft of your thesis to ETD for preliminary formatting.
 - Submission is due no later than the **11th week**
- Step 4: Your project/thesis must be completed **by the end of the 12th week** of the semester.
 - Also approved by your committee chair
- Step 5: Upon approval of your committee chair, the graduate report/thesis must be submitted to [TurnItIn.com](https://www.turnitin.com) for Plagiarism check.
- Step 6: Thesis/Dissertation/Graduate Project Final Submission
 - Deadline: around the 14th week

Graduate Thesis/Project



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3. Application for Graduation

- **Who can apply to Graduate?**

- Students who have been classified, and
- Completed or in progress of completing 18 units

- **When to apply?**

To access the deadlines to apply for Graduation, please click on the [Graduation Deadlines page](#). You will be notified via email.

- **How to apply?**

- Apply to graduate online via “MyCSUN Portal”.
- The fee to apply to graduate is ~\$55

- **What happens if you miss the deadline to apply?**

- You MUST apply for the next available term and will be required enrollment.

- **What happens if you apply for graduation but need more time?**

- You can request a graduation date change with a fee of \$8

Remember

- You are responsible for initiating each step/task (when ready) by contacting your faculty advisor to make an appointment.
- Additional Resource:
- <https://www.csun.edu/graduate-studies/graduate-student-handbook>
- <https://www.csun.edu/graduate-studies/thesisdissertation/thesisdissertation>

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General Rule #1

- The passing grade in any course taken is "C" or better.
- Overall GPA must be 3.0 or higher. Students will be placed on academic probation whenever their GPA falls below 3.0 in all units completed.
 - First semester overall GPA is below 3.0 => Academic Notice/Probation
 - Second semester overall GPA is below 3.0 => Disqualification
 - You may file a petition for one-semester reinstatement if your overall GPA could be above 3.0 after one more semester

General Rule #2

- No more than **9 units total** of
 - graduate transfer or extension work with grades of **B** or better is allowed
 - **pre-approved 400-level courses** may count toward degree
 - course substitution from outside of the required curriculum
- To get credit for any of the above 9 units toward your master program:
 - you need to get the approval by emailing your advisor a request with
 - Your name and student ID number
 - The course codes that you want to be counted and their scores
 - The semester these courses were completed

General Rule #3

- **Repeat of courses**

- A graduate course with a grade of **B-** or less may be repeated.
- A maximum of **6 units** of course repeat is permitted.
 - The last grade of the repeated courses will be used in calculating the GPA.

General Rule #4

- **Two-year time limit on Thesis and MS Project**

- The Thesis/Project must be completed, filed, and approved within **two years** of the first enrollment in **ECE 698C**.
- During this time, the student may enroll in other courses and continue working on the thesis/project
- If completing project/thesis enrolled in an earlier semester is the only work left in the semester you graduate, you may enroll AR601 with a fee of \$250
- Should the student require more time than two years
 - Talk to your faculty advisor
 - Submit **a petition form** to your faculty advisor

More General Rules

- 7-year time limit for the completion of the degree
- Pass **TurnItIn.com** Plagiarism Check
 - For graduate project/thesis
 - Department deadline will be emailed to you for each semester
- Required to be enrolled the semester in which the degree is to be awarded.

Q & A

- What if I took an extra 500-level or 600-level course which was not counted towards my BS degree at CSUN?
 - Submit a graduate petition form to your faculty advisor along with your undergraduate DPR
 - The grade needs to be B or better
- What if I took an 500-level course as part of my BS program at CSUN which is required for my MS degree
 - You may retake it for better grade
 - Or you may replace it by another course by submitting a course substitution
 - Talk to your faculty advisor
- What if I took an 500-level or 600-level course through Open University which was not counted towards my BS degree?
 - Talk to your faculty advisor
 - Submit a graduate petition request to your advisor along with your transcript

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6: Q&A

Q &A

- How to have access to DPR?

<https://www.csun.edu/sites/default/files/Student-Degree-Progress-Report-Guide.pdf>

- How to enroll classes?

<https://www.csun.edu/current-students/add-classes>

Q&A

- How can I pass a course with B or better?
 - Attend each class unless you are sick or have emergency
 - Review the lecture notes after each class
 - Complete and submit homework before the due date every week
 - Visit professors' office hours to get help
 - Complete all quizzes, exams, projects
 - Start working on your homework and projects right away
 - Do not cheat on any graded work including reports, tests, homework.
Consequence of being caught results in a failing grade

International Admissions Advisors

International Admissions Advisors		
Family Name	Contact Person	Email
A – FARG	Ernie Hidalgo	ernie.hidalgo@csun.edu
FARH – LIAA	Ashley Lee	ashley.lee@csun.edu
LIAB – SALS	Lilly Hudson	lillian.hudson@csun.edu
SALT – Z	Fernando Valle	fernando.valle@csun.edu