The Program
The Master of Science in Engineering (MSE) provides students with advanced engineering education in Electrical or Computer Engineering degree options. The overarching goal of the program is to enhance the students’ ability to be successful and advance in their chosen careers in industry, academia, and public instruction.

Overview
The program provides opportunities for integration and cross areas of electrical and computer engineering students to do research and project in the following areas:

- Higher Frequency Electronics
- Communications
- Control Systems and Robotics
- Power Electronics
- VLSI System Design
- Computer Architecture and Embedded Systems

California State University
Lyles College of Engineering
Electrical and Computer Engineering Department
2340 San Ramon AVE EE 94
Fresno, CA 93740

Graduate Studies
MSE Electrical Engineering Option
MSE Computer Engineering Option

The Goals of the Graduate Program
1. Enhance the students’ understanding of advanced theoretical and practical concepts in engineering.
2. Allow students to achieve an appropriate level of competence in solving practical problems.
3. Develop students’ critical thinking skills necessary for mastering new topics related to the advances in engineering.
4. Allow students to acquire substantive knowledge that will permit them to pursue advanced academic or industrial work.
Degree Requirements and Faculty Research Area

Research and Projects
Faculty in the Department of Electrical and Computer Engineering are engaged in a variety of research and development activities. The following are the general areas of research. Contact individual faculty members for additional information.

- Dr. Nagy Bengiamin at bengiam@csufresno.edu Control Systems, Power Systems, Robotics
- Dr. Daniel Bukofzer at danielbu@csufresno.edu Signal Processing, Wireless Communications
- Dr. Ram Nunna at runna@csufresno.edu VLSI, Computer Architecture, Digital Systems
- Dr. Reza Raeisi at rraeisi@csufresno.edu : Embedded Systems, VLSI Testing, Design for Testability
- Dr. Gregory Kriehn at gkriehn@csufresno.edu Optoelectronics, Optical Signal Processing
- Dr. Zoulikha Mouffak at zmouffak@csufresno.edu Solid State Devices, Semiconductor IC Process Technology
- Dr. Young Kim at youngkim@csufresno.edu RF Electronics, Microwave
- Dr. Charles Won at chwon@csufresno.edu Computer Networks, Wireless Sensor Networks
- Dr. Peter Kinman at pkinman@csufresno.edu Communication and Signal Processing
- Dr. Albert Heaney at aheaney@csufresno.edu Digital Systems

Degree Requirements

MS Engineering 30 Units Program

<table>
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<tr>
<th>Required Core Courses</th>
<th>Electrical Engr. Option (10-units): ENGR 200; ENGR 201; ECE 224; One course from ECE 230, ECE 241, ENGR 206</th>
<th>Computer Engr. Option (10-units): ENGR 200, ENGR 201, ECE 278, one course from ECE 240, ECE 242, ECE 274</th>
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**Thesis Option**
- Major courses: 6 units (select from the 200-level ECE courses)
- Elective Courses 8 units (select from ECE 200-level courses, 100-level ECE courses, and other 200-level courses approved by graduate coordinator)
- Thesis 6 units (ECE 299)

**Project Option**
- Major courses: 6 units (select from the 200-level ECE courses)
- Elective Courses 8 units (select from ECE 200-level courses, 100-level ECE courses, and other 200-level courses approved by graduate coordinator)
- Project 3 units (ECE 298)

**Exam Option**
- Major courses: 6 units (select from the 200-level ECE courses)
- Elective Courses 8 units (select from ECE 200-level courses, 100-level ECE courses, and other 200-level courses approved by graduate coordinator)
- Comprehensive Exam: 0 unit

For complete admission requirements, deadlines and procedures to apply refer to the Division of Graduate Studies and International Student Service and Programs at California State University, Fresno at the following links:

http://www.fresnostate.edu/academics/gradstudies/
http://www.fresnostate.edu/studentaffairs/issp/

For departmental detail requirements contact the graduate program coordinator:

Reza Raeisi, PhD
Professor and Graduate Program Coordinator
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Fresno, CA 93740
Phone: (559) 278-6038
Email: rraeisi@csufresno.edu
Website: http://www.fresnostate.edu/engineering/elec-computer/grad-programs/