

**San José State University**  
**Charles W. Davidson College of Engineering**  
**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**EE180 – Individual Studies**

**Instructor:**

**Office Location:**

**Telephone:**

**Fax:**

**Email:**

**Web Page:**

**Office Hours:**

**Class Days/Time:** None

**Classroom:** None

**Prerequisites:** Senior in good standing

### **Faculty Web Page**

Course information and materials such as course syllabus, tutorials, journal/proceeding papers, homework/lab assignments and solutions, office hours, special announcements, etc. will be posted on faculty website. Students are responsible for regularly checking the web page for the information.

### **Catalog Course Description**

Individual work on special topics arranged by the student and faculty mentor. Enrollment is handled by the EE department office. A completed and approved application is required.

### **Course Description**

The EE180 Individual (or Independent) Studies course is designed to allow seniors to work individually with a faculty member on a project or topic of mutual interest. The course is arranged on an individual basis at the instigation of the student or faculty member. Before enrolling for EE180, students are encouraged to complete all their required foundation courses in mathematics, chemistry, physics, ENGR10, CMPE46, EE097, EE098, as well as some required electrical engineering courses EE101, EE102, EE110, EE112, EE118, EE122, and EE128. These requirements are to ensure that students will have enough background to address challenging engineering problems in collaboration with their faculty mentor. Under special circumstances and with the approval of EE Department Chair or Undergraduate Advisor on the EE180 Application Form, one 3-unit individual studies course may be used as an elective course in the EE program.

Each student who enrolls in EE180 must create a list of “Learning Objectives” (LOs) with approval from his/her faculty mentor. The list of LOs together with EE180 Application Form must be completed and approved before the last day of drop without a “W” grade. The number of LOs must be between 6 and 10 and must satisfy at least 4 ABET outcomes among the ones listed in the “ABET outcomes” section of this course syllabus.

## **Learning Objectives**

Upon successful completion of this course, students will be able to (student must fill out these Learning Objectives and get approval from faculty mentor):

- LO1.
- LO2.
- LO3.
- LO4.
- LO5.
- LO6.

## **ABET outcomes**

The Learning Objectives listed above satisfies at least 4 ABET criterion 3 outcomes among the ones as listed below:

- (a) An ability to apply knowledge of mathematics, science, and engineering
- (b) An ability to design and conduct experiments, as well as to analyze and interpret data
- (c) An ability to design a system, component, or process to meet desired needs
- (e) An ability to identify, formulate, and solve engineering problems
- (f) An understanding of professional and ethical responsibility
- (h) The broad education necessary to understand the impact of engineering solutions in a global and societal context
- (i) A recognition of the need for, and an ability to engage in life-long learning
- (k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

## **Required Text and Laboratory Manual**

### **Textbook**

To be determined by the student and faculty mentor

### **Laboratory Manual**

To be determined by the student and faculty mentor

## **Classroom Protocol**

There is no classroom protocol for EE180. However, student is encouraged to meet the faculty mentor at least once per week

## **Dropping and Adding Policies and Procedures**

Students are responsible for understanding the policies and procedures about add/drops, academic renewal, etc. Information on add/drops are available at <http://info.sjsu.edu/web-dbgen/narr/soc-fall/>. Information about late drop is available at <http://www.sjsu.edu/sac/policies/latedrops/policy/>. Students should be aware of the current deadlines and penalties for adding and dropping classes.

## **Assignments and Grading Policy**

### **Lectures, Exams, Tests, Homework and Laboratory Assignments**

To be determined by the student and faculty mentor

### **Final Report**

A final report must be turned in at the end of the semester. The report must be approved by the faculty mentor and filed with the Undergraduate Advisor or the Department Chair

### **Grading Policy**

The course grade is CREDIT / NO CREDIT. In order to receive credit, a grade of “C” or above is required.

## **University Policies**

### **Academic Integrity Statement** (from Office of Student Conduct and Ethical Development):

Your own commitment to learning, as evidenced by your enrollment at San José State University, and the University’s Academic Integrity Policy requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of Student Conduct and Ethical Development. The policy on academic integrity can be found at [http://www.sa.sjsu.edu/download/judicial\\_affairs/Academic\\_Integrity\\_Policy\\_S07-2.pdf](http://www.sa.sjsu.edu/download/judicial_affairs/Academic_Integrity_Policy_S07-2.pdf)

Instances of academic dishonesty will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person’s ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include in your assignment any material you have submitted, or plan to submit for another class, please note that SJSU’s Academic Policy F06-1 requires approval of instructors.

### **Campus Policy in Compliance with the American Disabilities Act**

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please see me as soon as possible during my office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the DRC (Disability Resource Center) to establish a record of their disability.

## **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
- 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.

### **Course Schedule**

To be determined by the student and faculty mentor