



This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability.

**Catalog:** 2025-26**GE Pattern:** local AA/AS**Total Units:** 60**Start Term:** Spring

## First Year

### Semester 1 (Spring)

8 Units

| CAT. | COURSE  | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| Req  | ET 302<br>Principles of Electricity and Electronics | 4    |               |         |
| Req  | ET 193<br>Introduction to Robotics and Sensors      | 4    |               |         |

### Semester 2 (Fall)

7 Units

| CAT. | COURSE   | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| Req  | ET 197<br>Introduction to Mechatronics                                 | 4    | ET 302        |         |
| Req  | DESGN 301<br>Introduction to Computer Aided Drafting and Design (CADD) | 3    |               |         |

## Second Year

### Semester 3 (Spring)

9 Units

| CAT. | COURSE  | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| RE   | DESGN 302 <sup>1</sup><br>Technical Documentation with CADD | 3    | DESGN 301     |         |
| Req  | WELD 300<br>Introduction to Welding                         | 3    |               |         |
| Elec | any elective course   | 3    |               |         |

<sup>1</sup> or ENGR 312

### Semester 4 (Fall)

6 Units

| CAT. | COURSE   | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| Req  | ET 253<br>Industrial Communication Systems Support | 4    | ET 302        |         |
| GE   | any Area L7B (Life Development Skills) course      | 2    |               | L7B     |

## Third Year

### Semester 5 (Spring)

9 Units

## CAREER PATH

### Career Options:

This degree prepares students for the following careers: industrial mechanical/ electrical systems technician, food processing machine service technician, facilities systems technician, waste water systems technician, manufacturing coordinator, field service technician, and mechanical electrical machine systems installer.

### Advising Notes:

- This degree can be completed using either the local AA/AS general education (GE) pattern or the Cal-GETC transfer GE pattern. [See a counselor](#) to determine which pattern is best for you based on your academic goals.
- Students can substitute ESLW 340 for ENGL C1000/C1000H (formerly known as ENGWR 300/480).
- Elective Courses:** any elective courses numbered 100-499, or having a 4-digit number starting with C.

### Scheduling Notes:

- ET 193 is offered days in the spring semester.
- ET 197 is offered days in the fall semester.
- ET 253 is offered every semester, alternating day and night schedules.
- Due to the scheduling of ET 193 and 197, this map is designed for students starting in the spring.

| CAT. | COURSE  | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| GE   | ENGL C1000<br>Academic Reading and Writing or<br>ENGL C1000H <sup>H</sup><br>Academic Reading and Writing -<br>Honors | 3    |               | L1A     |
| GE   | any Area L3 (Arts & Humanities) course  | 3    |               | L3      |
| Elec | any elective course   | 3    |               |         |

### Semester 6 (Fall)

7 Units

| CAT. | COURSE   | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| GE   | STAT C1000<br>Introduction to Statistics or<br>STAT C1000H <sup>H</sup><br>Introduction to Statistics - Honors | 4    |               | L2      |
| GE   | any Area L5 (Natural Sciences) course  | 3    |               | L5      |

## Fourth Year

### Semester 7 (Spring)

7 Units

| CAT. | COURSE  | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| GE   | any Area L1B (Oral Communication &<br>Critical Thinking) course | 3    |               | L1B     |
| GE   | any Area L4 (Social & Behavioral<br>Sciences) course            | 3    |               | L4      |
| GE   | any Area L7A (Physical Education)<br>course                     | 1    |               | L7A     |

### Semester 8 (Fall)

7 Units

| CAT. | COURSE                              | UNIT | PREREQUISITES | GE AREA |
|------|-------------------------------------|------|---------------|---------|
| GE   | any Area L6 (Ethnic Studies) course | 3    |               | L6      |
| Elec | any elective course                 | 3    |               |         |
| Elec | any elective course                 | 1    |               |         |

<sup>H</sup> honors courses

- This degree can be started in the fall. [See a counselor](#) to adjust the coursework.

### Other Notes:

- At the end of semester 2, students qualify for the **Robotics certificate**.
- At the end of semester 3, students qualify for the **Basic Mechatronics certificate**.
- At the end of semester 4, students qualify for the **Mechatronics certificate**.
- An internship (ET 298) is highly recommended as it opens up potential employment opportunities. Students can earn between 0.5 – 4.0 units for related paid or unpaid work experience including volunteer and internship positions through ET 298. This course also works toward satisfying GE Area L7B. See the [Work Experience website](#) for more information.

### EXPLANATION OF CATEGORIES

|      |                     |  |
|------|---------------------|--|
| Req  | Required Core       | A course that is required for this program   |
| RE   | Restricted Elective | A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list |
| Elec | Degree Elective     | A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree             |
| GE   | General Education   | A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement                      |