



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

## First Year

### Semester 1

8 Units

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

### Semester 2

7 Units

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

## Second Year

### Semester 3

9 Units

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

<sup>1</sup> or ENGR 312

### Semester 4

6 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	ET 253 Industrial Communication Systems Support	4	ET 302	

## 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 in the spring.

### Other Notes:

- At the end of semester 2, students qualify for the **Robotics certificate**.

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
GE	any Area L7B (Life Development Skills) course	2		L7B

## Third Year

### Semester 5

9 Units

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

### Semester 6

7 Units

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

## Fourth Year

### Semester 7

7 Units

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

### Semester 8

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		

- 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

<b>Req</b>	Required Core	A course that is required for this program
<b>RE</b>	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
<b>Elec</b>	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
<b>GE</b>	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

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