



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: 2026-27

GE Pattern: local AA/AS

Total Units: 60

First Year

Semester 1 14 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	ET 302 Principles of Electricity and Electronics	4		
Req	DESGN 301 Introduction to Computer Aided Drafting and Design (CADD)	3		
Req	WELD 300 Introduction to Welding	3		
GE	STAT C1000 Introduction to Probability and Statistics or STAT C1000H ^H Introduction to Probability and Statistics - Honors	4 4		L2

Semester 2 16 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	ET 193 Introduction to Robotics and Sensors	4		
Req	ET 197 Introduction to Mechatronics	4	ET 302	
GE	ENGL C1000 College Composition or ENGL C1000H ^H Honors College Composition	3 3		L1A
GE	any Area L7B (Life Development Skills) course	2		L7B
Elec	any elective course	3		

Second Year

Semester 3 15 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 in the spring.

Other Notes:

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

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
RE	DESGN 302 ¹ Technical Documentation with CADD	3	DESGN 301	
Req	ET 253 Industrial Communication Systems Support	4	ET 302	
GE	any Area L3 (Arts & Humanities) course	3		L3
GE	any Area L5 (Natural Sciences) course	3		L5
GE	any Area L7A (Physical Education) course	1		L7A
Elec	any elective course	1		

¹ or ENGR 312

Semester 4

15 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
GE	any Area LIB (Oral Communication & Critical Thinking) course	3		L1B
GE	any Area L4 (Social & Behavioral Sciences) course	3		L4
GE	any Area L6 (Ethnic Studies) course	3		L6
Elec	any elective course	3		
Elec	any elective course	3		

^H honors courses

certificate and the **Basic Mechatronics certificate**.

- At the end of semester 3, 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
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
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
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