



# Electronic Systems Technology A.S. Degree

**PART TIME**

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

9 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	ET 302 Principles of Electricity and Electronics	4		
Req	ET 312 Mathematics for Circuit Analysis	3		
Req	ET 308 Technical Soldering Practices and Techniques	2		

### Semester 2

8 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	ET 115 Fiber Optics and Telecommunication Cabling	4		
Req	ET 322 Semiconductors and Nanotechnology	4	ET 302	

## Second Year

### Semester 3

7 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	ET 380 Introduction to Electronic Communications	4	ET 302	
Req	ET 381 Electronic Communication Regulations	3		

### Semester 4

8 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	ET 253 Industrial Communication Systems Support	4	ET 302	
Req	ET 335 Integrated Circuits with Computer Applications	4	ET 302	

## Third Year

## CAREER PATH

### Career Options:

This degree provides students with the knowledge to successfully enter a variety of electronics and telecommunication careers. Working closely with our industry partners and contacts ensures our curriculum is relevant and meets the current and future needs of the Electronics and Telecommunications Industry.

### Advising Notes:

- This degree can be completed using either the local AA/AS general education (GE) pattern or the Cal-G ETC 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).

### Scheduling Notes:

- ET 302 and ET 312 are offered every semester day and night.
- ET 115, 253, 322, 335, 380, 381, and 420 are offered every semester alternating day and night schedules.
- ET 308 is offered on Fridays both day and night.

### Other Notes:

- At the end of semester 1, students qualify for the **Basic Electronics and Telecommunications certificate**.
- At the end of semester 2, students qualify for the **Advanced Electronics and Telecommunications certificate**.

## Semester 5

6 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	ET 420 Microcontrollers and Digital Signal Processors	4		
GE	any Area L7B (Life Development Skills) course	2		L7B

## Semester 6

6 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 3		L1A
GE	any Area L3 (Arts & Humanities) course	3		L3

- At the end of semester 5, students qualify for the **Electronic Systems Technology** certificate.

# Fourth Year

## Semester 7

7 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
GE	MATH 300 Introduction to Mathematical Ideas	3		L2
GE	any Area L5 (Natural Sciences) course	3		L5
GE	any Area L7A (Physical Education) course	1		L7A

## Semester 8

9 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 L6 (Ethnic Studies) course	3		L6

<sup>H</sup> honors courses

### 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