



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:** 2024-25

**GE Pattern:** local AA/AS

**Total Units:** 60

**Start Term:** Spring

## First Year

### Semester 1 (Spring)

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	ET 302	Principles of Electricity and Electronics	4	
Req	ET 193	Introduction to Robotics and Sensors	4	
Req	DESN 301	Introduction to Computer Aided Drafting and Design (CADD)	3	
GE	STAT 300 / 480 <sup>H</sup>	Introduction to Probability and Statistics	4	IIb MC

### Semester 2 (Fall)

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	ET 197	Introduction to Mechatronics	4	
Req	WELD 300	Introduction to Welding	3	
GE	ENGWR 300 / 480 <sup>H</sup>	College Composition	3	Ila WC
GE	HCD 310	College Success	3	IIIb
Elec	ET 308	Technical Soldering Practices and Techniques	2	

## Second Year

### Semester 3 (Spring)

14 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
RE	DESN 302 <sup>1</sup>	Technical Documentation with CADD	3	
Req	ET 253	Industrial Communication Systems Support	4	
GE	TAFILM 307	Diversity in American Film	3	I
GE	PHYS 310	Conceptual Physics	3	IV
GE		any PE activity course	1	IIIa

<sup>1</sup> or ENGR 312

### Semester 4 (Fall)

16 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
GE	NUTRI 310 / 481 <sup>H</sup>	Cultural Foods of the World	3	Vb, VI

## 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:

- Students can substitute ESLW 340 for ENGWR 300/480.

### 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.
- 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** and the **Basic Mechatronics certificate**.
- At the end of semester 3, students qualify for the **Mechatronics certificate**.

CAT.	COURSE	TITLE	UNIT	GE AREA
GE	POLS 301 / 481 <sup>H</sup>	Introduction to Government: United States	3	Va
Elec	ARTNM 324	Digital Design	3	
Elec	BUS 310	Business Communications	3	
Elec	BUS 312	Workplace Behavior and Ethics	3	
Elec	ET 298	Work Experience in Electronics Technology	1	

<sup>H</sup> honors courses

- 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 IIIb. 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

### Graduation Requirement

A course that fulfills a specific graduation requirement which can be replaced by another course that meets the same graduation requirement.

**MC** = Math Competency

**WC** = Writing Competency

Published April 13, 2024