



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)

8 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	

Semester 2 (Fall)

7 Units

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

Second Year

Semester 3 (Spring)

8 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
RE	DESN 302 ¹	Technical Documentation with CADD	3	
Req	WELD 300	Introduction to Welding	3	
Elec	ET 308	Technical Soldering Practices and Techniques	2	

¹ or ENGR 312

Semester 4 (Fall)

7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	ET 253	Industrial Communication Systems Support	4	
GE	HCD 310	College Success	3	IIIb

Third Year

Semester 5 (Spring)

7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
GE	ENGWR 300 / 480 ^H	College Composition	3	Ila WC
GE	TAFILM 307	Diversity in American Film	3	I

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

CAT.	COURSE	TITLE	UNIT	GE AREA
Elec	ET 298	Work Experience in Electronics Technology	1	

Semester 6 (Fall)

7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
GE	NUTRI 310 / 481 ^H	Cultural Foods of the World	3	Vb, VI
GE	STAT 300 / 480 ^H	Introduction to Probability and Statistics	4	IIb 

- 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 IIIb. See the [Work Experience website](#) for more information.

Fourth Year

Semester 7 (Spring)

7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
GE	POLS 301 / 481 ^H	Introduction to Government: United States	3	Va
GE	PHYS 310	Conceptual Physics	3	IV
GE		any PE activity course	1	IIIa

Semester 8 (Fall)

9 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Elec	ARTNM 324	Digital Design	3	
Elec	BUS 310	Business Communications	3	
Elec	BUS 312	Workplace Behavior and Ethics	3	

^H honors courses


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

Graduation Requirement

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

 = Math Competency

 = Writing Competency