



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

**Total Units:** 25

## First Year

### Semester 1

10 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	DESN 301 Introduction to Computer Aided Drafting and Design (CADD)	3	
Req	ET 302 Principles of Electricity and Electronics	4	
Req	WELD 300 Introduction to Welding	3	

### Semester 2

8 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	ET 193 Introduction to Robotics and Sensors	4	
Req	ET 197 Introduction to Mechatronics	4	ET 302

## Second Year

### Semester 3

7 Units

CAT.	COURSE	UNIT	PREREQUISITES
RE	DESN 302 <sup>1</sup> Technical Documentation with CADD	3	DESN 301
Req	ET 253 Industrial Communication Systems Support	4	ET 302

<sup>1</sup> or ENGR 312 (*Engineering Graphics*)

## CAREER PATH

### Career Options:

The certificate 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.

### Scheduling Notes:

- ET 193 is offered in the spring.

### Other Notes:

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

### 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

