



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

Total Units: 25

Start Term: Spring

## First Year

### Semester 1 (Spring)

11 Units

CAT.	COURSE	TITLE	UNIT
Req	ET 302	Principles of Electricity and Electronics	4
Req	ET 193	Introduction to Robotics and Sensors	4
Req	DESGN 301	Introduction to Computer Aided Drafting and Design (CADD)	3

### Semester 2 (Fall)

7 Units

CAT.	COURSE	TITLE	UNIT
Req	ET 197	Introduction to Mechatronics	4
Req	WELD 300	Introduction to Welding	3

## Second Year

### Semester 3 (Spring)

7 Units

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

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

### 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

## 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 days in the spring semester.
- ET 197 is offered days in the fall semester.
- Due to the scheduling of ET 193 and 197, this map is designed for students starting in the spring.
- ET 253 is offered every semester, alternating day and night schedules.
- ET 302 is offered every semester, day and night.
- WELD 300 is offered every semester, day and night and on weekends.
- DESGN 301 is offered every semester, day and night as well as a hybrid class.

### Other Notes:

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