Area of Study: **Science and Engineering**
Pathway: **Engineering Technology/Mechatronics**
Type: **Certificate**
Curriculum Code: **ENT.MEC.CERT (C448V)**

(Total Program Credits: 21)

The Engineering Technology/Mechatronics Certificate curriculum is designed for individuals seeking to secure a position in industry requiring skills and knowledge working with automation equipment, industrial controls, and basic robotics.

PROGRAM LEARNING OUTCOMES:

At the successful completion of the Engineering Technology/Mechatronics Certificate, the graduate will be able to:

- identify electronic and mechanical parts of an automated system;
- interpret electrical wiring diagrams and symbols;
- install, program, and troubleshoot Programmable Logic Controllers (PLCs);
- explain the principal operations of a mechatronic system;
- implement safety regulations required for operation of the system; and
- measure in inches and metric systems.

Placement Measures MAT, RHT, and COL sequence placement will be determined by an Academic Advisor.
Contact your Academic Advisor or Transfer Specialist (if transferring), before registering for courses.
Developmental education courses do not transfer. They assist students in the path towards college credit.

Program Map for Full-Time Students

Semester 1	Category	Stackable Certificate	Stackable Degree	Next Steps
				Meet with your Academic Advisor to create an academic plan.
ENT 104 ◊ Electricity Basic Fundamentals (3)	*Required*			
ENT 115 ◊ Fluid Power (3)	*Required*			
ENT 204 Programmable Logic Controllers I (3)	*Required*			Explore stackable certificate(s)/degree(s)

9 Credit hours

Semester 2	Category	Stackable Certificate	Stackable Degree	Next Steps
				Meet with your Academic Advisor to finalize your academic plan for graduation and register for stackable certificate/degree (option).
ENT 202# Electricity Sustainable Applications (4)	*Required*			
ENT 205 Robotics I (4)	*Required*			
ENT 206# Programmable Logic Controllers II (4)	*Required*			Submit graduation petition by deadline (check for the specific date in catalog or syllabus.)

12 Credit hours

See ENT course descriptions (p. **Error! Bookmark not defined.**).

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