

MECHATRONICS: CERTIFIED MAINTENANCE TECHNICIAN - CERTIFICATE

Career Pathways Certificate of Completion | mhcc.edu/Mechatronics

Faculty Adviser

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The Certified Maintenance Technician certificate provides students a foundation in mechanical and electrical systems encountered in industrial environments. Students will learn skills in troubleshooting as well as industrial safety, measurement, and pneumatics that will prepare them to work in several industry sectors.

Admission Requirements

Admission to the certificate program is based on meeting placement requirements, experience, and space availability. Application information is available on our website at mhcc.edu/mechatronics. Once you have read the application information, you may email a faculty adviser to discuss admission.

Program Outcomes

At the completion of this program, students should be able to:

- Demonstrate appropriate industrial safety practices in a manufacturing environment
- Participate effectively in a workplace environment
- Apply a systematic approach to troubleshooting problems
- Read and interpret industrial schematics
- Demonstrate intermediate level knowledge of pneumatic, mechanical, and electrical systems
- Describe and perform basic welding and machining processes on ferrous metals
- Use hand and shop tools effectively to complete common maintenance tasks
- Identify and use appropriate test equipment

All MEC courses must be completed with a "C" grade or higher.

Course	Title	Credits
First Quarter		
Fall		
MEC101	Introduction to Mechatronics	1
MEC110	Introduction to Manual Machine Tools	3
MEC112	Measurement Tools	2
MEC113	Industrial Safety	2
MEC141	Pneumatics I	3
MEC142	Pneumatics II	2
Credits		13
Second Quarter		
Winter		
MEC115	Print Reading	2

MEC121	Mechanical Drives I	4
MEC122	Mechanical Drives II	4
MEC123	Mechanical Drives III	4
Credits		14
Third Quarter		
Spring		
MEC131	AC/DC Electrical Systems	3
MEC132	Electric Motors	4
MEC133	Motor Controls	5
Credits		12
Fourth Quarter		
Summer		
Can also be taken in summer prior to first term		
MEC160 or WLD116	Introduction to Maintenance Welding or General Welding I	2-3
Credits		2-3
Total Credits		41-42