

# MECHATRONICS: INDUSTRIAL AUTOMATION - CERTIFICATE

---

Career Pathways Certificate of Completion | mhcc.edu/Mechatronics  
 (https://www.mhcc.edu/Mechatronics/)

## Faculty Adviser

**Todd Saunders:** 503-491-7034 | AC1382 | Todd.Saunders@mhcc.edu  
**Bernie Grysen:** 503-491-7482 | AC1381 | Bernie.Grysen@mhcc.edu

This program is designed for those working in industrial maintenance, who want to gain skills in factory automation. Students will troubleshoot and program basic PLC's and FANUC robots. Students should also have prior knowledge of AC/DC electronics, electric motors, and sensors.

Courses must be completed with a "C" grade or better, and must be completed within 5 years in order to be awarded the certificate.

## Program Outcomes

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

- Demonstrate basic knowledge in automation control systems
- Operate and program basic industrial robots and programmable logic controllers
- Interact with automated systems following standard safety procedures

**Students may begin the courses for this certificate in the 2024-25 academic year.**

Code	Title	Credits
MEC231	Introduction to Programmable Logic Controllers	4
MEC232	Intermediate Programmable Logic Controllers	5
MEC251	Robotics I	3
MEC252	Robotics II - Vision Systems	3
<b>Total Credits</b>		<b>15</b>