

# CERTIFICATE IN CONTROLS SYSTEMS

---

The Controls Systems certificate focuses on the components, systems, and operations that are used to control modern automated manufacturing equipment with a focus on Programmable Logic Controllers (PLCs). Students completing this certificate will acquire knowledge and skills in the components, systems, set-up, operation, and troubleshooting of controllers including PLCs. These courses will prepare students for entry-level jobs as control or automation technicians in manufacturing environments. Completion of this certificate will help prepare students to earn industry certification in Programmable Logic Controllers offered by PMMI.

Code	Title	Hours
<b>Mechatronics Core Courses</b>		<b>11</b>
MEC 101	Industrial Safety	
MEC 110	Instrumentation and Industrial Measurement	
MEC 140	AC and DC Fundamentals and Circuits	
MEC 210	Programmable Logic Controllers	4
MEC 240	Industrial Process Control	3
MEC 270	Advanced Programmable Logic Controllers	4
<b>Total Hours</b>		<b>22</b>