

# CERTIFICATE IN MECHANICAL SYSTEMS

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The Mechanical Systems certificate focuses on the components, systems, and operations of the equipment performing the work in modern automated manufacturing environments. Students completing this certificate will acquire knowledge and skills in the components, systems, set-up, operation, and troubleshooting of hydraulic/pneumatic circuits as well as electric motors. These courses will prepare students for entry-level jobs as mechanical or automation technicians in manufacturing environments. Completion of this certificate will help prepare students to earn industry certification in Fluid Power and Motor and Motor Controls 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 160	Industrial Hydraulics and Pneumatics	4
MEC 220	Electric Motors and Controls	4
MEC 260	Robotics	4
<b>Total Hours</b>		<b>23</b>