



**Career and Technical Education Pathway
Engineering and Applied Technology
Mechanical Engineering Technologies**

Introduction to Manufacturing and Maintenance Engineering Certificate

This certificate is designed to introduce students the development of fundamental skills necessary to safely operate and maintain robotic and automated equipment. It sets the ground work for preparation for employment opportunities in automated industries. This certificate is not designed as an industry certified credential. Additional credentials which may include certifications or degrees are required for employment.

CORE COURSES			
Course Prefix/Num	Course Title		
<u>BPR 111</u>	Blueprint Reading	2	SHC
<u>ELC 111*</u>	Intro to Electricity	3	SHC
<u>HYD 110*</u>	Hydraulics and Pneumatics	3	SHC
<u>ISC 112</u>	Industrial Safety	2	SHC
<u>MEC 111</u>	Machining Processes I	3	SHC
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OTHER MAJOR COURSES			
Course Prefix/Num	Course Title		
<u>ATR 112</u>	Introduction to Automation	3	SHC
<u>EGR 110</u>	Introduction to Engineering Technology	2	SHC
Total SHC for Core Courses:		5	SHC
Total SHC for Program		18	

* Requires benchmark/placement testing.

Estimated Costs:

Textbooks: \$150 per semester

Materials: \$30-95 a semester