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## ENGINEERING TECHNOLOGY - ADVANCED MANUFACTURING OPTION

### Engineering Technology - Advanced Manufacturing, AS

<b>Communications Area</b>	<b>3 Credit Hours</b>
ENC 1101    English Composition I	3
<b>Humanities Area</b>	<b>3 Credit Hours</b>
See <a href="#">General Education Core Requirements</a>	3
<b>Mathematics Area</b>	<b>3 Credit Hours</b>
MAC 1105    College Algebra	3
<b>Natural Sciences Area</b>	<b>3 Credit Hours</b>
See <a href="#">General Education Core Requirements</a>	3
<b>Social Sciences Area</b>	<b>3 Credit Hours</b>
POS 2041    Amer National Government	3
OR	
AMH 2020    United States History II	3
<b>Major Courses</b>	<b>45 Credit Hours</b>
<b>Advanced Manufacturing Option.</b> This track specializes in automation, robotics, and process control with emphasis on computer-controlled systems for industrial manufacturing, system integration, instrumentation, simulation, and animatronics. The program skills used for careers in manufacturing, theme park industries, military applications, water filtration and purification plants, and much more. Graduates are prepared to work as controls engineers, system integrators, robotic technicians, industrial programmers, process control engineers, field service technicians, simulation technicians, industrial sales engineers, and industrial maintenance technicians.	
EET 1084C    Introduction to Electronics	3
ETD 1320C    Introduction to CAD	3
ETI 1701    Industrial Safety	3
ETI 2110    Intro to Quality Assurance	3
ETI 1420    Manufacturing Processes	3
ETI 2001C    Applied Mechanics	3
ETS 2542C    Programmable Logic Controllers	3
ETS 2535C    Process & Cntrl Implementation	3
ETS 2700C    Electro-Hydraul & Pneumatics	3
ETS 2606C    Robotics	3
ETS 2511C    Motor and Motion Control	3
EET 1140C    Elec Devices and Circuits	3
CET 1112C    Dig/Comp Circuits	3
EET 1035C    AC/DC Circuits	3
ETS 2931    Special Projects in CIM	2
ETI 1949    Manufacturing Internship	1

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• General Education Core.

+ Prerequisites and/or corequisites required. See course descriptions.

# Applies only to AS degree and certificate programs.

= Career Certificate course.

\* Minimum grade of "C" required.

@ Civic Literacy.

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