

ENGINEERING TECHNOLOGY - ADVANCED MANUFACTURING OPTION

Engineering Technology: Advanced Manufacturing Option, AS (ENGT-AS)

Communications Area	3 Credit Hours
ENC 1101 English Composition I	3
Humanities Area	3 Credit Hours
See General Education Core Requirements	3
Mathematics Area	3 Credit Hours
MAC 1105 College Algebra	3
Natural Sciences Area	3 Credit Hours
See General Education Core Requirements	3
Social Sciences Area	3 Credit Hours
POS 2041 Amer National Government	3
OR	
AMH 2020 United States History II	3
Major Courses	45 Credit Hours
Advanced Manufacturing Option. 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

• 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.