



## ENGINEERING TECHNOLOGY (AS)

SPECIALIZATION: ADVANCED MANUFACTURING

### PROGRAM DESCRIPTION:

The AS degree in Engineering Technology is designed to meet Florida's need for a highly skilled, well-trained, and technically competent workforce in manufacturing to meet the challenges of ever changing and increasingly complex manufacturing processes. The AS degree in Engineering Technology can serve as either a terminal degree or the first step of a 2 + 2 program leading to a bachelor's degree, in either a technical area or in management.

The core of this degree is closely aligned with the national Manufacturing Skill Standards Council (MSSC) Certified Production Technician (CPT) industry certification. After completing this core students will be prepared to take the MSSC assessments for CPT certification. Students that have already earned an MSSC-CPT certification will receive 15 articulated credit-hours of the 60 credit-hour degree, in the classes noted below with a blue triangle (▲).

### GENERAL EDUCATION and ENGINEERING TECHNOLOGY CORE COURSES

#### GENERAL EDUCATION (18 credits)

ENC 1101 College Composition I	3	Natural Science requirement	3
MAC 1105 College Algebra	3	Social Science requirement	3-4
Humanities requirement	3	Health Science requirement	2-3

#### ENGINEERING TECHNOLOGY CORE (18 credits)

ETD 1320C Computer Aided Drafting	3	ETI 1420 Manufacturing Processes and Materials (▲)	3
EET 1083C Intro to Electronics (▲)	3	ETI 1110 Introduction to Quality (▲)	3
ETM 1010C Mechanical Measurement & Instrumentation (▲)	3	ETI 1701 Industrial Safety (▲)	3

### ADVANCED MANUFACTURING SPECIALIZATION COURSES

#### REQUIRED TECHNICAL COURSES (13 credits)

EST 1542 Intro to Programmable Logic Controllers	3	EST 1511 Motors and Controls	3
ETI 1622 Lean Manufacturing and Six Sigma	3	ETM 2315C Hydraulics and Pneumatics	4

#### TECHNICAL ELECTIVES (Choose 11 credits from below)

EST 1540 Industrial Applications	3	EST 1535 Automated Process Control	3
ETI 1403 Introduction to Adv. Man. Tech	1	ETI 1931 Special Topics in Modern Manufacturing	3
ETI 1181 Quality Systems & Workplace Dynamics	2	ETI 1949 Manufacturing Internship	2
MAN 2500 Operations Management	3	MAC 2233 Applied Calculus I	3
CGS 1061C Intro to Computers	3	CGS 1510C Spreadsheet Fundamentals	3
ENC 2210 Technical Writing	3		



ENGINEERING TECHNOLOGY  
POLK STATE COLLEGE  
2010-2011



Contact: Dr. Eric Roe | 863.669.2838 | engtech@polk.edu | www.polk.edu/engtech