



## ENGINEERING TECHNOLOGY (A.S.)

SPECIALIZATIONS: ADVANCED MANUFACTURING

### PROGRAM DESCRIPTION:

The Engineering Technology Associate in Science degree program prepares students for employment or provides additional training for persons employed in manufacturing and high technology industries. PSC offers the Advanced Manufacturing specialization.

The 18 credit hour technical 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 assessment for the CPT Certification. Students who have already earned the MSSC-CPT will receive 15 articulated credit-hours towards the Engineering Technology degree. The Engineering Technology Associate in Science degree program is fully transferable to four year degree granting institutions.

## ASSOCIATE IN SCIENCE DEGREE (A.S)

### General Education & Engineering Technology Courses

GENERAL EDUCATION (18 credits)		Cr.	ENGINEERING TECHNOLOGY CORE (18 credits)		Cr.
ENC 1101 College Composition I		3	<b>CAD</b>	ETD 1320C Computer Aided Drafting	3
MAC 1105 College Algebra		3	<b>ELECTRONICS</b>	EET 1083C Intro to Electronics	3
Humanities requirement		3	<b>MEASUREMENT</b>	ETM 1010C Mechanical Measurement & Instrumentation	3
Social Science requirement		3	<b>PROCESSES</b>	ETI 1420 Manufacturing Processes and Materials	3
Natural Science requirement		3-4	<b>QUALITY</b>	ETI 1110 Introduction to Quality	3
Health Science requirement		2-3	<b>SAFETY</b>	ETI 1701 Industrial Safety	3

### Specialized Track Courses

#### ADVANCED MANUFACTURING (24 Cr.)

Cr.

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
<i>Technical Electives (choose from the list below)</i>					11

#### TECHNICAL ELECTIVE COURSES

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 2504	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			



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POLK STATE COLLEGE

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