

# ENGINEERING TECHNOLOGY (4300)

ASSOCIATE IN SCIENCE DEGREE



The purpose of this program is to prepare students for employment in advanced manufacturing as process and production technicians, industrial machinery mechanics, quality assurance technicians, programmable logic control technicians and operators, and industrial engineering technicians. This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of Engineering Technology and Industrial Applications: Production materials and processes, quality, electronics, mechanics, robotics applications, hydraulics/pneumatics, instrumentation and safety. Laboratory investigations benefit all students by developing the skills required to manage, operate, calibrate, and troubleshoot equipment/tools used to make observations.

The core classes align with the national Manufacturing Skill Standards Council (MSSC) Production Technician Certification. If you have already earned the MSSC-CPT, you can receive 15 articulated credit hours towards this Engineering Technology degree. The following courses will be satisfied by completion of the MSSC Production Technician Certification: ETI 1110, ETI 1420C, ETI 1701, ETI 1949, ETM 1010C.

For additional information after seeing an advisor, please contact (904) 276-6893.

### GENERAL EDUCATION COURSES:

	ENC	1101	Composition I.....	3
+	ENC	1102	Composition II .....	3
+*	_____	_____	General Education Humanities .....	3
+*	_____	_____	General Education Mathematics.....	3
*	_____	_____	General Education Social Science.....	3

### TECHNICAL COURSES:

	EET	1084C	Introduction to Electricity & Electronics.....	3
	ETI	1110	Introduction to Quality Assurance .....	3
	ETI	1420C	Manufacturing Processes & Materials .....	3
	ETI	1622	Concepts of Lean and Six Sigma .....	3
	ETI	1701	Industrial Safety .....	3
	ETM	1010C	Mechanical Measurement & Instrumentation .....	3

### TECHNICAL SPECIALIZATION:

+	ETI	1843C	Motors and Controls.....	3
	ETM	2315C	Hydraulics and Pneumatics.....	3
	ETS	1535C	Automated Process Control.....	3
	ETS	1542C	Introduction to Programmable Logic Controllers.....	3
	ETS	1603C	Fundamentals of Robotics.....	3
	ETS	2527C	Electromechanical Components and Mechanisms .....	3
+	ETS	2544C	Programmable Logic Controllers II.....	3

### ELECTIVES (CHOOSE ANY 6 CREDIT HOURS):

	ETI	1060	Mathematical Applications in Engineering Technology.....	3
+	ENC	2210	Technical and Professional Writing .....	3
+	ETS	2604C	Robotics Applications .....	3
	ETI	1949	Special Topics in Manufacturing .....	3

### REQUIRED TOTAL CREDIT HOURS

60

\* Refer to A.A. degree general education requirements.  
+Prerequisite course required. See course descriptions in catalog.

