

MECHANICAL ENGINEERING TECHNOLOGY

with Pitt Community College

The Mechanical Engineering Technology program is designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

A course of study that prepares the students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem solving, and oral and written communications. Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQ, SME, and NICET.

NOTE: Upon completion of all requirements, the A.A.S. in Mechanical Engineering Technology is granted by Pitt Community College. The hours at Martin Community College are listed below.

MECHANICAL ENGINEERING TECHNOLOGY

A.A.S. Degree (A40320)

Suggested Sequence of Courses

Prefix	Course Title	Class	Lab	Clinic	Work	Credit	Prefix	Course Title	Class	Lab	Clinic	Work	Credit
FALL SEMESTER 1 at Martin Community College							FALL SEMESTER 2 at Pitt Community College						
ACA 115	Success and Study Skills	0	2	0	0	1	DFT 152	CAD II	2	3	0	0	3
BPR 111	Print Reading	1	2	0	0	2	MAC 121	Intro to CNC	2	0	0	0	2
CIS 115	Intro to Program & Logic	2	3	0	0	3	MEC 161	Manufacturing Processes I	3	0	0	0	3
ELC 112	DC/AC Electricity	3	6	0	0	5	MEC 161A	Manufacturing Processes I Lab	0	3	0	0	1
ENG 111	Writing and Inquiry	3	0	0	0	3	MEC 110	Intro to CAS/CAM	2	1	0	0	2
HYD 110	Hydraulics/Pneumatics I	2	3	0	0	3	MEC 180	Engineering Materials	2	3	0	0	3
MEC 111	Machine Processes	1	4	0	0	3	PHY 131	Physics - Mechanics	3	2	0	0	4
	TOTALS	12	20	0	0	20		TOTALS	14	12	0	0	18
SPRING SEMESTER 1 at Martin Community College							SPRING SEMESTER 2 at Pitt Community College						
DFT 151	CAD I	2	3	0	0	3	ATR 281	Automated Manufacturing	3	2	0	0	4
ISC 112	Industrial Safety	2	0	0	0	2	DFT 153	CAD III	2	3	0	0	3
MAT 171	Precalculus Algebra	3	2	0	0	4	EGR 250	Statics/Strength of Materials	4	3	0	0	5
	Behavioral/Social Sciences Elective	3	0	0	0	3	ISC 132	Manufacturing Quality Control	3	3	0	0	4
	Communication Elective	3	0	0	0	3		TOTALS	12	11	0	0	16
	Humanities/Fine Arts Elective	3	0	0	0	3		PROGRAM TOTAL					72
	TOTALS	16	5	0	0	18							