PIEDMONT Technical College

Mechanical Engineering Technology Curriculum

Contact Us

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Program Overview

The degree in Engineering Technology provides graduates with a wide variety of career opportunities. Engineering Technology students can choose from three different majors. These are Electronic Engineering Technology, Engineering Design Technology and Mechanical Engineering Technology. Each of these programs produces technicians who are well prepared to enter the job market in their chosen field. Engineering Technology students are required to have a graphing electronic calculator (Texas Instruments Model TI-83). Students who are planning to transfer to a four-year college or university should schedule an appointment with the college's transfer coordinator for assistance. Entrance requirements for transfer students vary widely among senior colleges and universities. It is also recommended that the student contact the college or university he/she plans to attend for additional transfer information.

Courses with a prefix EET or MET must be less than 8 years old in order to count toward a certificate, diploma, or degree program. Courses with a prefix of EGT or EGR must be less than 5 years old to count toward a certificate, diploma or degree program

PROGRAM REQUIREMENTS

A.A.S., Major in Mechanical Engineering Technology, Mechanical Engineering Concentration

The Mechanical Engineering Technology curriculum equips the graduate for: performing a key role in the mechanical design process; installing, troubleshooting and repairing mechanical and electro-mechanical equipment; programming CNC machine tools, computers, programmable controllers and robots; performing general maintenance functions.

Most industrial products are mechanical in nature, and almost nothing can be made without the use of machines and structures. There will always be a need for the Mechanical Engineering Technology specialist.

GENERAL EDUCATION COURSES

COURSES		CREDIT HOURS
ENG 101	English Composition I	3.0
	or ENG 165 Professional Communications	
MAT 110	College Algebra	3.0
MAT 111	College Trigonometry	3.0
PSY 103	Human Relations	3.0
	or PSY 201 General Psychology	
	Elective Humanities/Fine Arts	3.0

SUBTOTAL: 15.0

REQUIRED CORE SUBJECT AREAS

COURSES		CREDIT HOURS
CIM 131	Computer Integrated Manufacturing	3.0
EGR 170	Engineering Materials	3.0
EGR 175	Manufacturing Processes	3.0
EGR 194	Statics and Strengths of Materials	4.0
EGT 152	Fundamentals of CAD	3.0

SUBTOTAL: 16.0

OTHER COURSES REQUIRED FOR GRADUATION

COURSES		CREDIT HOURS
EET 113	Electrical Circuits I	4.0
EET 212	Industrial Robotics	3.0
EGR 130	Engineering Technology Applications and Programming	3.0
EGT 110	Engineering Graphics I	4.0
MET 213	Dynamics	3.0
MET 214	Fluid Mechanics	3.0
MET 222	Thermodynamics	4.0
MET 231	Machine Design	4.0
MET 240	Mechanical Senior Project	1.0
PHY 201	Physics I	4.0
	or for transfer PHY 221 University Physics I (if prerequisite MAT 140 has been completed)	
PHY 202	Physics II	4.0
	or for transfer PHY 222 University Physics II	

SUBTOTAL: 37.0

TOTAL CREDIT HOURS: 68.0

A.A.S., Major in Mechanical Engineering Technology, Electro-Mechanical Engineering Concentration

GENERAL EDUCATION COURSES

COURSES		CREDIT HOURS
ENG 101	English Composition I	3.0
	or ENG 165 Professional Communications	
MAT 110	College Algebra	3.0
MAT 111	College Trigonometry	3.0
PSY 103	Human Relations	3.0
	or PSY 201 General Psychology	
	Elective Humanities/Fine Arts	3.0

SUBTOTAL: 15.0

REQUIRED CORE SUBJECT AREAS

COURSES		CREDIT HOURS
CIM 131	Computer Integrated Manufacturing	3.0
EGR 170	Engineering Materials	3.0
EGR 175	Manufacturing Processes	3.0
EGR 194	Statics and Strengths of Materials	4.0
EGT 152	Fundamentals of CAD	3.0

SUBTOTAL: 16.0

OTHER COURSES REQUIRED FOR GRADUATION

COURSES		CREDIT HOURS
EET 113	Electrical Circuits I	4.0
EET 131	Active Devices	4.0
EET 212	Industrial Robotics	4.0
EET 231	Industrial Electronics	4.0
EGR 130	Engineering Technology Applications and Programming	3.0
EGT 110	Engineering Graphics I	4.0
MET 214	Fluid Mechanics	3.0
MET 231	Machine Design	4.0
MET 240	Mechanical Senior Project	1.0
PHY 201	Physics I	4.0
	or for transfer PHY 221 University Physics I (if prerequisite MAT 140 has been completed)	
PHY 202	Physics II	4.0
	or for transfer PHY 222 University Physics II	

SUBTOTAL: 38.0

TOTAL CREDIT HOURS: 69.0

>>> Visit www.ptc.edu/engineering to learn more.