

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 four different majors. These are Electronic Engineering Technology, Engineering Graphics Technology, General Engineering 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 Engineering Graphics Technology (with Computer Aided Design)

All phases of manufacturing or construction require the conversion of new ideas and design concepts into the basic line language of graphics. Therefore, there are many areas (civil, mechanical, electrical, architectural and industrial) in which the skills of the CAD technicians play major roles in the design and development of new products or construction.

Students prepare for actual work situations through practical training in a new state-of-the-art computer designed CAD laboratory using AutoCAD, and other advanced CAD software.

Specific skills mastered by Engineering Graphics Technology majors include the production of mechanical, architectural, electrical and civil drawings both with traditional drafting machines and state-of-the-art computer aided drafting (CAD) systems, and the selection and design of architectural and mechanical systems. The senior year includes advanced CAD techniques using solid modeling, wire frame and assembly techniques. Internship opportunities may also be available with local industries for senior EGT students.

This program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

Day Program

FIRST SEMESTER	CREDIT HOURS
EGR 130 Engineering Technology Applications and Programming	3.0
EGT 110 Engineering Graphics I	4.0
EGT 151 Introduction to CAD.....	3.0
ENG 101 English Composition I	3.0
MAT 110 College Algebra.....	3.0

SECOND SEMESTER

EGT 125 Descriptive Geometry.....	2.0
EGT 251 Principles of CAD	3.0
ENG 102 English Composition II.....	3.0
or ENG 165 Professional Communications	
MAT 111 College Trigonometry.....	3.0
PHY 201 Physics I.....	4.0

SUMMER TERM

EGT 165 Introduction to CAD/CAM.....	2.0
EGT 115 Engineering Graphics II.....	4.0
EGR 175 Manufacturing Processes	3.0
PHY 202 Physics II	4.0

THIRD SEMESTER

CIM 131 Computer Integrated Manufacturing.....	3.0
or AET 101 Building Systems I	
EGR 170 Engineering Materials	3.0
EGT 252 Advanced CAD	3.0
EGT 225 Architectural Drawing Applications	4.0
MAT 130 Elementary Calculus	3.0
or MAT 140 Analytical Geometry and Calculus I	4.0

FOURTH SEMESTER **CREDIT HOURS**

EGT 215	Mechanical Drawing Applications	4.0
EGR 194	Statics and Strengths of Materials.....	4.0
PSY 103	Human Relations	3.0
	<i>or PSY 201 General Psychology</i>	
	Elective Humanities/Fine Arts	3.0

TOTAL CREDIT HOURS: 74.0/75.0**Evening Program****FIRST SEMESTER** **CREDIT HOURS**

EGT 110	Engineering Graphics I	4.0
EGT 151	Introduction to CAD.....	3.0
MAT 110	College Algebra.....	3.0

SECOND SEMESTER

EGT 125	Descriptive Geometry.....	2.0
EGT 251	Principles of CAD	3.0
MAT 111	College Trigonometry.....	3.0

SUMMER TERM

EGT 165	Introduction to CAD/CAM	2.0
	Elective Humanities/Fine Arts	3.0
ENG 101	English Composition I	3.0

THIRD SEMESTER

EGR 175	Manufacturing Processes	3.0
ENG 102	English Composition II.....	3.0
	<i>or ENG 165 Professional Communications</i>	
PHY 201	Physics I.....	4.0

FOURTH SEMESTER

EGR 130	Engineering Technology Applications and Programming	3.0
EGR 170	Engineering Materials	3.0
PHY 202	Physics II	4.0

SUMMER TERM **CREDIT HOURS**

EGR 194	Statics and Strengths of Materials.....	4.0
EGT 115	Engineering Graphics II.....	4.0

FIFTH SEMESTER

CIM 131	Computer Integrated Manufacturing.....	3.0
	<i>or AET 101 Building Systems I</i>	
EGT 225	Architectural Drawing Applications	4.0
MAT 130	Elementary Calculus	3.0
	<i>or MAT 140 Analytical Geometry and Calculus I4.0</i>	

SIXTH SEMESTER

EGT 215	Mechanical Drawing Applications	4.0
EGT 252	Advanced CAD	3.0
PSY 103	Human Relations	3.0
	<i>or PSY 201 General Psychology</i>	

TOTAL CREDIT HOURS: 74.0/75.0>>> Visit www.ptc.edu/engineering to learn more.