

# 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 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 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**

GENERAL EDUCATION COURSES	
COURSE	ES CREDIT HOURS
ENG 101	English Composition I
	or ENG 165 Professional Communications
	College Algebra3.0
MAT 111	College Trigonometry
PSY 103	Human Relations
	or PSY 201 General Psychology
	Elective Humanities/Fine Arts
	SUBTOTAL: 15.0
REQUIRED CORE SUBJECT AREAS	
COURSE	
CIM 131	Computer Integrated Manufacturing3.0
EGR 170	Engineering Materials
EGR 175	Manufacturing Processes
EGR 194	Statics and Strengths of Materials4.0
EGT 152	Fundamentals of CAD
	SUBTOTAL: 16.0
OTHER COURSES REQUIRED FOR GRADUATION	
COURSE	ES CREDIT HOURS
EET 113	Electrical Circuits I4.0
EGR 130	Engineering Technology Applications
	and Programming
EGT 110	Engineering Graphics I4.0
MAT 130	Elementary Calculus
	or MAT 140 Analytical Geometry and Calculus I 4.0
MET 213	Dynamics
MET 222	Thermodynamics
MET 224	Hydraulics and Pneumatics
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MET 231	Machine Design
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SUBTOTAL: 37.0 TOTAL CREDIT HOURS: 68.0/69.0

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

GENERAL EDUCATION COURSES		
COURSE	CREDIT HOURS	
ENG 101	English Composition I	
	or ENG 165 Professional Communications	
MAT 110	College Algebra3.0	
MAT 111	College Trigonometry	
PSY 103	Human Relations	
	or PSY 201 General Psychology	
	Elective Humanities/Fine Arts	
	SUBTOTAL: 15.0	
REQUIRED CORE SUBJECT AREAS		
COURSE	CREDIT HOURS	
CIM 131	Computer Integrated Manufacturing 3.0	
EGR 170	Engineering Materials	
EGR 175	Manufacturing Processes	
EGR 194	Statics and Strengths of Materials4.0	
EGT 152	Fundamentals of CAD	
	SUBTOTAL: 16.0	
OTHER COURSES REQUIRED FOR GRADUATION		
COURSES CREDIT HOUR		
EET 113	Electrical Circuits I4.0	
EET 113 EET 131	Active Devices4.0	
EET 131 EET 231	Industrial Electronics 4.0	
EGR 130	Engineering Technology Applications	
EGR 130	and Programming	
EGT 110	Engineering Graphics I	
MAT 130	Elementary Calculus	
141111 130	or MAT 140 Analytical Geometry and Calculus I 4.0	
MET 224	Hydraulics and Pneumatics	
MET 231	Machine Design	
MET 240	Mechanical Senior Project	
PHY 201	Physics I	

SUBTOTAL: 38.0 TOTAL CREDIT HOURS: 69.0/70.0

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