

Associate of Applied Science Degree in General Engineering Technology/Mechanical Engineering Technology

AREA: General Engineering Technology:
Mechanical Engineering Technology

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: This curriculum provides educational opportunities for those who seek employment in industry, for those who desire to upgrade their knowledge or acquire practical skills in the field, and for those who wish to transfer and complete a bachelor of science degree in mechanical engineering technology.

OCCUPATIONAL OBJECTIVES: draftsman/designer, engineer's aide, engineering technician, industrial test technician, maintenance technician or other related positions

TRANSFER GUIDELINES: Graduates with appropriate course selection may qualify to enter mechanical engineering technology programs at selected universities. Students preparing for transfer must consult with the program advisor. Course selection is very important to assure junior status upon transfer. Potential transfer institutions include East Tennessee State University, North Carolina State University, Old Dominion University, Rochester Institute of Technology, West Virginia Institute of Technology and West Virginia University. Students interested in transferring to other institutions, including Virginia Tech, must determine transfer requirements of their intended destination school.

PROGRAM REQUIREMENTS: The curriculum is designed to integrate courses in mechanical engineering technology, mechanics, physics, general education, drafting, computer information systems and technical electives. Students entering the program must have algebra I and geometry skills or be willing to improve those skills through developmental studies. The program may be completed on a part-time basis since courses are alternated between day and evening hours. Technical electives must be selected from an approved list available from the program advisor. Upon satisfactory completion of the four-semester program, the graduate will be awarded the associate of applied science degree in general engineering technology with a mechanical engineering technology specialization. Transfer opportunities for associate of applied science degrees, if existing, are very specific in nature. Students enrolling in an applied science degree with plans to transfer should explore opportunities with an advisor.

Course#	Title	Credits
First Semester		
EGR 110	Engineering Graphics	3
ENG 111	College Composition I	3
MEC 111	Materials for Industry	3
MTH 115	Technical Math I or Approved Higher Level Math ¹	3
SDV 100	College Success Skills	1
	Social Science Elective ²	3
	Total	16
Second Semester		
CAD 241	Parametric Solid Modeling I	3
EGR 216	Computer Methods in Engineering and Technology	3
ENG 112/115	College Composition II or Technical Writing	3
MEC 112	Processes of Industry	3
MTH 158	College Algebra or Approved Higher Level Math	3
	Social Science Elective ²	3
	Total	18
Third Semester		
CAD 242	Parametric Solid Modeling II	3
EGR 135	Statics for Engineering Technology	3
EGR 206	Engineering Economics	3
PED/HLT	Physical Education or Health	1
PHY 201	General College Physics I	4
	Technical Elective ³	3
	Total	17
Fourth Semester		
EGR 136	Strength of Materials	3
IND 145	Introduction to Metrology	3
PHY 202	General College Physics II	4
	Technical Elective ³	3
	Humanities Elective ⁴	3
	Total	16
	Program Total	67

¹ Approved higher level math courses include: MTH 163/164, MTH 271/272, MTH 173/174. Students should check with program faculty.

² Students may select social science elective from approved list on page 41.

³ An approved list of technical electives is available on page 43.

⁴ Students may select humanities elective from approved list on page 41.