

AREA: General Engineering Technology:
Civil Engineering Technology Specialization

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: This curriculum provides educational opportunities for those who seek employment in the construction 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 civil engineering technology.

OCCUPATIONAL OBJECTIVES: construction/building inspector, construction estimator, draftsman/designer, engineer's aide, engineering technician or other related positions

TRANSFER GUIDELINES: Graduates with appropriate course selection may qualify to enter civil engineering technology programs at selected universities. Students preparing for transfer must consult with their program advisors. 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 civil engineering technology, mechanics, physics, general education, drafting, computers 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 curriculum, the graduate will be awarded the associate of applied science degree in general engineering technology with a civil 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 their faculty advisor.

Course#	Title	Credits
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First Semester

ARC 130	Materials and Methods of Construction	3
EGR 110	Engineering Graphics	3
ENG 111	College Composition I	3
MTH	Approved math elective ¹	3
PED/HLT	Physical education (or health)	2
SDV 100	College Success Skills	1
	Approved social science elective ²	3
	Total	18

Second Semester

ARC 221	Architectural CAD Appl. Software I	3
CIV 225	Soil Mechanics	2
CIV 226	Soil Mechanics Lab	1
ENG 115	Technical Writing	3
MTH	Approved math elective ¹	3
	Approved programming/computer elective ³	3
	Approved social science elective ²	3
	Total	18

Third Semester

CIV 171	Surveying I	3
EGR 135	Statics for Engineering Technology	3
EGR 206	Engineering Economics	3
PHY 201	General College Physics I	4
	Approved technical elective ³	3
	Total	16

Fourth Semester

CIV 172	Surveying II	3
EGR 136	Strength of Materials	3
EGR 247	Materials Lab	1
PHY 202	General College Physics II	4
	Approved humanities elective ⁴	3
	Approved technical elective ³	3
	Total	17

Program Total **69**

¹ Approved math electives: MTH 115 and 116, or MTH 163 and MTH 164, or MTH 213 and MTH 214 will fulfill the math requirements for the program. Developmental math courses may be required for students to build their math skills before taking any of the approved math electives. Students must take a math placement test to determine their math skill level.

² Students may select social science electives from approved list.

³ Requires approval of program advisor.

⁴ Students may select humanities electives from approved list.

