

Associate of Applied Science Degree in General Engineering Technology: Civil Engineering Technology Specialization

968-01

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 an advisor.

Course#	Title	Credits
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
SDV 100	College Success Skills	1
	Social Science Elective ²	3
	Total	16
Second Semester		
ARC 221	Architectural CAD Appl. Software	3
	Humanities Elective ⁴	3
EGR 216	Computer Methods in Engineering and Technology	3
ENG 112/115	College Composition II or Technical Writing	3
MTH	Approved Math Elective ¹	3
	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
PED/HLT	Physical Education or Health	1
PHY 201	General College Physics I	4
	Technical Elective ³	3
	Total	17
Fourth Semester		
CIV 172	Surveying II	3
EGR 136	Strength of Materials	3
PHY 202	General College Physics II	4
	Technical Elective ³	3
IND 145	Intro to Metrology	3
	Total	16
	Program Total	67

¹ Approved math courses include MTH 158/163, MTH 163/164, MTH 163/271, MTH 271/272, MTH 173/174. Students intending to transfer to OLD Dominion University should meet with program faculty about the proper selection of math courses.

² Students may select social science electives from approved list on page 42.

³ An approved list of technical electives is available on page 44

⁴ Students may select humanities electives from approved list on page 42.