

Associate of Applied Science Degree Engineering Technologies

Civil Engineering Technology (9410)

The Civil Engineering Technology Program is designed to prepare students for immediate employment with architectural firms, engineering consulting firms, construction management firms, surveyors, contracting firms, residential builders, and with federal, state, county, and city governments. The diverse curriculum allows for students to gain specialized training for careers in architecture, construction, facility management, and surveying. Graduates may also transfer directly to a bachelor's degree program in Civil Engineering Technology, Construction Technology, Surveying, or Architecture. Both the day and evening programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, phone 410.347.7700, www.abet.org.

Certificates are also available.

First Semester:

CIVT 1011	Construction Methods and Materials	3
CIVT 1012	Reading Construction Drawings	1
ENGL 1110*	English Composition I (A)	3
OR		
ENGL 1111	English Composition I (B)	3
ENGR 1000	Introduction to Engineering Technology	2
MATH 1101	Technical Mathematics I	4
PHYS 1100	Applied Physics I	3

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Second Semester:

CIVT 1015	Architectural Drafting I	3
CIVT 1021	Construction Materials Testing	2
MATH 1201	Technical Mathematics II	4
MECT 1150	Technical Communications	3
MECT 2110	Engineering Mechanics I	3
PHYS 1200	Applied Physics II	3

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Summer Semester:

CIVT 2111	Surveying I	2
CIVT 2112	Surveying II	2

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Third Semester:

CIVT 1020	Architectural Drafting II	3
CIVT 2017	Construction Estimating and Scheduling	3
CIVT 2019	Applied Hydraulics	3
MECT 2230	Strength of Materials	3
SPCH 1050**	Fundamentals of Public Speaking	2
OR		
SPCH 1150	Fundamentals of Interpersonal Communication	3
Choose course(s) from the Arts and Humanities Electives list		3

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Fourth Semester:

CIVT 2026	Soils and Foundations	3
CIVT 2027	Concrete and Masonry Construction	3
CIVT 2028	Steel and Timber Construction	3
CIVT 2029	Environmental Technology	3
Choose course(s) from the Social and Behavioral Sciences list		3
Choose course(s) from the Technical Electives list		2

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Program Total: 72

**English course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the degree).*

***Students may substitute either SPCH 1000 or SPCH 1100. One of these 3 credit courses may be required for students transferring to a four-year college.*

Technical Electives: minimum 2 credits

BUSM 2100	Business Law I	3
CIVT 1016	Civil Drafting	3
CIVT 1019	Architectural Building Codes and Standards	2
CIVT 1025	Architectural Design	3
CIVT 1028	Mechanical and Electrical Systems	2
CIVT 2020	Green Building and LEED® Rating System	3
CIVT 2022	Computer Applications in Surveying	3
CIVT 2023	Route Location and Design	3
CIVT 2024	Construction Administration and Inspection	3
CIVT 2025	Safety in Construction	2
CIVT 2030	Introduction to GPS Satellite Surveying	2
CIVT 2032	Advanced Computer Applications in Surveying	3
CIVT 2040	Boundary Control and Legal Principles	2
CIVT 2440	Urban Planning and Site Development	2
ENGR 2800	Engineering Co-op Experience	2

Arts and Humanities Electives: minimum 3 credits

ARTS 1120, 2220, 2230; ENGL 2250, 2260, 2280, 2290; HUMX 1100, 1200; MUSC 1200, 1215, 1800, 2200, 2250; PHIL 1500, 2000

Social and Behavioral Sciences Electives: minimum 3 credits

ANTH 1160; ECON 1150, 2500, 2600; GEOG 1500, 1600, 2500; HIST 1100, 1200, 2100, 2200, 2400; POLS 1300, 2500; PSYC 1500; SOCY 1150