



AAS DEGREE – CODE #0577

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The program in construction engineering technology includes a well-designed balance of theoretical and laboratory studies, providing students with a broad knowledge of civil engineering technology and the construction fields. This field is expanding rapidly, and our technical curricula will give you a broad-based education, as well as the hands-on skills and experience needed for leadership in today's construction business.

ADVANTAGES

- The college offers testing and certification with the American Concrete Institute that students can earn their first semester.
- Students develop the ability to function effectively as a member of a technical team, as well as the ability to apply written, oral, and graphical communication in both technical and nontechnical environments.
- The AAS program is accredited by the Engineering Technology Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Construction Engineering Technology and Similarly Named Programs.

A student who completes the AAS degree can complete the bachelor's degree in two additional years.

PROGRAM EDUCATIONAL OBJECTIVES

Program educational objectives were established with the assistance of the Industrial Advisory Committee and are reviewed periodically. The construction engineering technology program produces graduates who:

- Write, read, and orally present technical reports, letters, and projects that meet the standards of the profession.
- Understand and are able to complete various activities related to construction such as interpret construction documents, draw plans using computer-aided drafting, complete an estimate, manage project activities, and be able to technically review construction materials used on the project.
- Recognize the need for and have an ability to engage in continued formal education as well as lifelong learning.

DIRECT ENTRY INTO BACCALAUREATE DEGREE PROGRAMS

Alfred State construction engineering technology graduates may enter directly into either the construction management BS, the construction supervision BTech, the civil engineering technology BS, the interdisciplinary studies BTech, or the technology management BBA degree program.

OCCUPATIONAL OPPORTUNITIES

- | | |
|-------------------------|-----------------------------|
| Building inspector | Codes enforcement officer |
| Construction inspector | Construction superintendent |
| Engineering technician | Estimator |
| Installation supervisor | Materials tester |
| Project coordinator | Quality control technician |
| Sales representative | Structural detailer |
| Supt. of public works | |

EMPLOYMENT STATISTICS

Employment and continuing education rate of 100 percent – 33 percent are employed; 67 percent continued their education.

ENROLLMENT AND GRADUATION DATA

	Enrollment (based on fall census)
2023	9
2022	15
2021	12
	Degrees Awarded
2022-2023	12
2021-2022	5
2020-2021	6

RELATED PROGRAMS

- [Construction Management](#)
- [Construction Supervision](#)
- [Surveying Engineering Technology](#)

ENTRANCE REQUIREMENTS/RECOMMENDATIONS

Required: Algebra, Geometry, Algebra 2
Recommended: Physics

REQUIRED COURSE PREREQUISITES

If students do not place into MATH 1033 College Algebra, MATH 1084 Calculus I, MATH 1323 Quantitative Reasoning, 1034 College Algebra of Functions, 1054 Precalculus, or 2124 Statistical Methods & Analysis, then MATH 1014 Algebra Concepts is a required prerequisite for completion of the major.

If students do not place into PHYS 1024 General Physics I or PHYS 1044 College Physics I, then PHYS 1014 Introductory Physics is a required prerequisite for completion of this major.

TECHNICAL STANDARDS

Students in the construction engineering technology program must meet the following requirements:

- Students must have the ability to use industry standard software and computers.
- Students must have the ability to traverse varying types of construction sites.

Students who believe they need a reasonable accommodation to participate in this program may contact the Office of Accessibility Services by email at DisabilityServices@alfredstate.edu or by phone at 607-587-4506. Please keep in mind that some accommodations may take time to implement, so students seeking accommodations are encouraged to contact OAS as early as possible.

REQUIRED EQUIPMENT

A tier 2 laptop computer is required for students entering the construction engineering technology program. Laptop specifications are available at www.alfredstate.edu/required-laptops.

OFFICE OF ACCESSIBILITY SERVICES

Students who believe they need a reasonable accommodation to properly participate in this program may contact Melanie Ryan in the Office of Accessibility Services. This office may be contacted by email at oas@alfredstate.edu or by phone at 607-587-4506. Please keep in mind that some accommodations may take time to implement, so students seeking accommodations are encouraged to contact OAS as early as possible.

CONSTRUCTION ENGINEERING TECHNOLOGY - AAS DEGREE

TYPICAL FOUR-SEMESTER PROGRAM

First			
COMP	1503	Writing Studies	3
CIVL	1021	Civil Eng Tech 1st Yr Exp	1
GLST	2113	Global & Diverse Perspectives	3
CIVL	1013	Portland Cement Concrete	3
CIVL	1182	Civil Tech Graphics	2
MATH	1033	College Algebra	3
			16
Second			
CIVL	2154	Quality Control of Const Matl	4
XXXX	xxx3	Technical Elective	3
PHYS	1024	General Physics I	4
MATH	2043	College Trigonometry	3
LITR	xxx3	Literature Elective	3
			17
Third			
CIVL	3553	Comm Bldg Const Methods & Prac	3
CIVL	4103	Structures I	3
PHYS	2023	General Physics II	3
MATH	1063	Technical Calculus I	3
CIVL	1204	Surveying I	4
			15
Fourth			
CIVL	4143	Contracts, Specs, & Estimating	3
CIVL	4043	Construction Management	3
CIVL	xxx3	Technical Elective	3
XXXX	xxx3	Open Elective	3
SPCH	1083	Public Speaking	3
			OR
SPCH	xxx3	Approved GE Equivalent	3
			15

Entry level of student into math and composition/literature sequences is a function of student's high school preparation and mathematics and English placement examinations.

Students receiving credit for math classes shown in the typical four-semester program may require additional LAS electives to complete degree requirements.

Students must complete two technical electives and two General Education electives.

Suggested Technical Electives:

- CIVL 2204 Surveying II
- CIVL 6113 Environmental Technical Concepts
- CIVL 7103 Land Development and Design
- ARCH 4013 Municipal Codes & Regulations
- Other technical electives by department approval.

GRADUATION REQUIREMENTS

2.0 cumulative grade point average, and department requirement of 2.0 grade point average in major courses (CIVL).