



BS DEGREE – CODE #1761

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Do you dream of a leadership role in the construction industry? Then this program is for you. Our expert faculty have designed a series of courses that will familiarize you with all aspects of construction management. Technical course work is combined with specific construction management courses as well as several business courses, giving you a broad-based education.

ADVANTAGES

- Alfred State students compete annually in the Associated Schools of Construction Northeast Region student competition.
- Students can compete for scholarships given by the Associated General Contractors of New York.
- Seniors in the BS program are required to take the Associate Constructor Level I exam prior to graduation.
- Students typically gain work experience through summer employment with construction companies.
- This program is accredited by the American Council for Construction Education (ACCE), [1717 North Loop Road 1604 East, Suite 320, San Antonio, TX 78232].
- The BS program is accredited by The Applied and Natural Science Accreditation Commission (ANSAC) of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Construction Engineering Technology and Similarly Named Programs.
- **PROGRAM CRITERIA (ABET ACCREDITATION)**
- Construction project management from pre-design through commissioning.
- Project life-cycle and sustainability.
- Health and safety, accident prevention, and regulatory compliance.
- Law, contract documents administration, and dispute prevention and resolution.
- Materials, labor and methods of construction.
- Finance and accounting principles.
- Planning and scheduling.
- Cost management including plan reading, quantity take offs and estimating.
- Project delivery methods.
- Leadership and managing people.
- Business and communication skills.

PROGRAM EDUCATIONAL OBJECTIVES

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

- Understand technical components and techniques of construction.
- Write, read, and orally present information standard to the construction industry.
- Understand methods and tools to manage both a construction project and construction company.
- Understand safety and risk management.
- Understand industry ethics and statutory requirements.

OCCUPATIONAL OPPORTUNITIES

- Project manager
- Project engineer
- Estimator
- Project scheduler
- Planner
- Construction supervisor
- Plant manager
- Construction equipment sales
- Materials sales
- Facilities management

EMPLOYMENT STATISTICS

Employment and continuing education rate of 100 percent – 100 percent are employed.

ENROLLMENT AND GRADUATION DATA

| | Enrollment (based on fall census) |
|-----------|-----------------------------------|
| 2023 | 82 |
| 2022 | 62 |
| 2021 | 69 |
| | Degrees Awarded |
| 2022-2023 | 12 |
| 2021-2022 | 15 |
| 2020-2021 | 28 |

RELATED PROGRAMS

[Architectural Technology](#)
[Building Trades: Building Construction](#)
[Construction Engineering Technology](#)
[Construction Supervision](#)

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 management 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.

REQUIRED EQUIPMENT

A tier 2 laptop computer is required for students entering the construction management 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 MANAGEMENT - BS DEGREE

TYPICAL EIGHT-SEMESTER PROGRAM

First

| | | | |
|------|------|---------------------------|----|
| COMP | 1503 | Writing Studies | 3 |
| CIVL | 1021 | Civil Eng Tech 1st Yr Exp | 1 |
| CIVL | 1204 | Surveying I | 4 |
| 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 |
| PHYS | 1024 | General Physics I | 4 |
| MATH | 2043 | College Trigonometry | 3 |
| GLST | 2113 | Global & Diverse Perspectives | 3 |
| | | | 14 |

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 |
| LITR | xxx3 | Literature Elective | 3 |
| | | | 15 |

Fourth

| | | | |
|------|------|--------------------------------|----|
| CIVL | 4143 | Contracts, Specs, & Estimating | 3 |
| CIVL | 4043 | Construction Management | 3 |
| CIVL | xxx3 | Technical Elective-Upper | 3 |
| SPCH | 1083 | Public Speaking OR | 3 |
| SPCH | xxx3 | Approved GE Equivalent | 3 |
| XXXX | xxx3 | Gen Ed Elective | 3 |
| | | | 15 |

Fifth

| | | | |
|------|------|------------------------------|----|
| CIVL | xxx3 | Technical Elective-Upper | |
| ECON | 1013 | Principles of Macroeconomics | 3 |
| COMP | 5703 | Technical Writing | 3 |
| CIVL | 7213 | Construction Equip Planning | 3 |
| XXXX | xxx3 | Gen Ed Elective | 3 |
| | | | 15 |

Sixth

| | | | |
|------|------|-----------------------------|----|
| CHEM | 5013 | Applied Chemical Principles | 3 |
| CIVL | 6214 | Advanced Estimating | 4 |
| CIVL | 6212 | Construction Safety | 2 |
| ACCT | 5043 | Accounting Perspectives | 3 |
| XXXX | xxx3 | Gen Ed Elective | 3 |
| CIVL | 6123 | Mechanical Systems | 3 |
| | | | 18 |

Seventh

| | | | |
|------|------|-------------------------------|----|
| MATH | 1123 | Statistics I | 3 |
| CIVL | 7223 | Construction Project Planning | 3 |
| MATH | 7113 | Economic Analy for Engr Tech | 3 |
| TMGT | 7153 | Principles of Management | 3 |
| XXXX | xxx3 | Gen Ed Elective | 3 |
| | | | 15 |

Eighth

| | | | |
|------|------|------------------------------|----|
| BUAD | xxx3 | Bus. Elective - Upper | 3 |
| CIVL | 5213 | Reinforced Concrete | 3 |
| CIVL | 8123 | Construction Project Admin | 3 |
| BUAD | 3043 | Business Law I | 3 |
| XXXX | xxx3 | Gen Ed Elective - Upper | 3 |
| ECON | 2023 | Principles of Microeconomics | 3 |
| | | | 18 |

GENERAL NOTES:

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

Must meet seven of the 10 General Education areas.

GRADUATION REQUIREMENTS

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