



#### **AOS DEGREE – CODE #0420**

Daniel Helveston, Department Chair  
Email address: [helvesdr@alfredstate.edu](mailto:helvesdr@alfredstate.edu)

Tim Rohrer, Program Coordinator  
Email address: [rohretra@alfredstate.edu](mailto:rohretra@alfredstate.edu)

The building construction program will provide you with instruction in the basic skills required of the carpenter and the mason in the construction of residential or other light-frame commercial and masonry buildings. You will also gain extensive experience in building layout, foundations, framing, sheathing, exterior and interior trim, block work, brick, and concrete construction.

#### **ADVANTAGES**

- Coupled with practical experience, the program provides the necessary theory connected with carpentry and masonry operations, as well as blueprint reading, cost and materials estimating, surveying for building layout and control, and safety on the job.
- A large part of the program is actual on-the-job training under the supervision of qualified instructors. Frequently, concrete and lumber companies instruct students in the uses of their products.

#### **DIRECT ENTRY INTO BACCALAUREATE DEGREE PROGRAM**

Alfred State building trades: building construction graduates may enter directly into the construction supervision BTech or technology management BBA degree program. Graduates who have credit for freshman composition, statistics, literature, history, and speech may complete the baccalaureate program in two additional years; others may complete the program in two-and-one-half years.

#### **OCCUPATIONAL OPPORTUNITIES**

- Manufacturers
- Cabinetmaker
- Sales
- Shop foreman
- Installer (cabinets, etc.)
- Dealers
- Maintenance supervisor
- Carpenter
- Contractor
- Self-employment
- Expediter
- Construction superintendent
- Construction foreman
- Mason
- Estimator

#### **EMPLOYMENT STATISTICS**

Employment and continuing education rate of 100 percent – 53 percent are employed; 47 percent continued their education.

#### **RELATED PROGRAMS**

[Heating, Ventilation, and Air Conditioning](#)  
[Architectural Technology](#)  
[Construction Engineering Technology](#)  
[Electrical Construction and Maintenance Electrician](#)

[Masonry](#)  
[Surveying Engineering Technology](#)

#### **REQUIRED TOOLS/EQUIPMENT**

A list of required tools, equipment, PPE, etc. for all of the programs mentioned above can be found at <http://www.alfredstate.edu/tool-lists>.

A tier 1 laptop computer is required for students entering this degree program. Laptop specifications are available at [www.alfredstate.edu/required-laptops](http://www.alfredstate.edu/required-laptops).

#### **ENTRANCE REQUIREMENTS/RECOMMENDATIONS**

Recommended: Algebra and Geometry

#### **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](mailto: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.

**BUILDING TRADES: BUILDING CONSTRUCTION - AOS DEGREE**

**TYPICAL FOUR-SEMESTER PROGRAM**

<b>First</b>			
BLCT	1202	Portable Tools & Fastening Sys	2
BLCT	1002	Intro to Construction Safety	2
BLCT	1212	Foundation Systems & Layout	2
BLCT	1222	Construction Math	2
BLCT	1232	Framing I	2
BLCT	1242	Framing II	2
BLCT	1206	Building Construction Lab I	6
			18
<b>Second</b>			
BLCT	2202	Insulation and Drywall	2
BLCT	2212	Exterior Building Envelope	2
BLCT	2232	Siding and Cornices	2
BLCT	2242	Wood Products & Fabrication	2
BLCT	2252	Intro to Print Reading & Estim	2
BLCT	2262	Masonry	2
BLCT	2206	Building Construction Lab II	6
			18
<b>Third</b>			
BLCT	3602	Residential Remodel	2
BLCT	3612	Roofing Systems	2
BLCT	3622	Advanced Print-reading & Estim	2
BLCT	3632	Exterior Construction Details	2
BLCT	3642	Interior Trims	2
BLCT	3652	Advanced Framing	2
BLCT	3606	Building Construction Lab III	6
			18
<b>Fourth</b>			
BLCT	4302	Basic CAD-Residential Drawing	2
BLCT	4332	Green Building & Bldg Science	2
BLCT	4482	Construction Entrepreneur OR	2
BLCT	4492	Commercial Construction	2
BLCT	4342	Mechanical Systems	2
BLCT	4352	Interior Finishes	2
BLCT	4362	Cabinetry	2
BLCT	4306	Building Construction Lab IV	6
			18

**Technical Standards**

It is crucial that all student applicants in this degree program must be able to meet the following requirements, with or without reasonable accommodation. Students who are enrolled in this degree program should have the physical capabilities to be able to engage in all training, field, and laboratory environments in a safe and ethical manner. Students must be able to:

- Lift and carry up to or 50 pounds of building materials/equipment without accommodations.
- Perform and function in a safe manner in all laboratory and classroom environments and off campus job site locations.
- Effectively communicate with classmates and instructional staff using appropriate visual and/or auditory communication from a distance of 20 feet.
- Physically setup, move, or climb ladders, scaffolding, etc., unaided, using the designated safety method.

- Identify and react to safety alarms which include, but not limited to, fire alarms, back up alarms and those meant for emergencies.

**GRADUATION REQUIREMENTS**

A student must successfully complete all courses in the prescribed four-semester program and earn a minimum cumulative grade point average of 2.0 in major courses.