

Building Trades

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The Building Trades Department is composed of four programs: building construction; heavy equipment operations; masonry; and heating, ventilation, and air conditioning. Rewarding careers in the construction industry are open to students graduating from the building trades programs. With the continual development of new building methods and materials, the craftsman finds it necessary to keep abreast of these developments. Construction, as in many other occupations, is becoming a field of specialists. Coupled with hands-on experience working at off-campus construction sites, the programs provide the necessary theory as well as instruction in blueprint reading, cost and materials, estimating, safety, and the use of newly developed equipment and materials.

MISSION

Educate students to meet the changing needs of the construction industry by using real-world projects and utilizing the most up-to-date equipment, systems, and materials. We strive to improve the lives of our graduates by incorporating work ethics, communication skills, and developing leadership as part of their training.

FACILITIES

The 30,000-square-foot Workforce Development Center serves as a resource for each of the four programs within the Building Trades Department and was built specifically to support the construction industry demand for Alfred State's skilled trade graduates. Enhancing the facility are student learning projects and hands-on applications of student work that have been integrated as part of the facility. These projects serve as a showpiece and testimonial to the high level of education students receive. The program serves students with nearly every power and hand construction tool available to instruct students in every phase of the construction trade. All students participate in off-campus construction of full-scale homes and building renovations each year. This experience provides graduates with significant real-world training to apply concepts learned in the classroom.

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.

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>.

DEPARTMENT PROGRAMS

[Building Trades: Building Construction](#) (AOS)

[Heating, Ventilation, and Air Conditioning](#) (AOS)

[Heavy Equipment Operations](#) (AOS)

[Masonry](#) (AOS)