

AlfredState.edu | 1-800-4-ALFRED



AOS DEGREE - CODE #0666

Bradley Thompson, Department Chair Email address: thompsbj@alfredstate.edu

This high-tech program focuses on welding processes performed in all positions on both plate and pipe. You will learn proper safety methods, required math, related skills, layout and fit up, welding codes and standards, welding inspection, testing, and drawing/welding symbol interpretation.

The first year, students will complete AWS Level I standards for an entry-level welder. The second year will take students toward AWS Level II - advanced welder and expert welder. Additional techniques such as high-pressure vessel and high-pressure pipe will be taught, as well as other advanced welding techniques.

ADVANTAGES

The welding technology program is taught according to the standards set by the American Welders Society (AWS) and is AWS-certified.

DIRECT ENTRY INTO BACCALAUREATE DEGREE PROGRAM

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

OCCUPATIONAL OPPORTUNITIES

- Industrial welder
- Steel construction
- Equipment repair
- Self-employment
- Fabrication welder
- Structural welder

EMPLOYMENT STATISTICS

Employment and continuing education rate of 100 percent – 83 percent are employed; 17 percent continued their education.

RELATED PROGRAMS

Autobody Repair CNC Manufacturing and Machining Heating, Ventilation, and Air Conditioning Mechanical 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.

ENTRANCE REQUIREMENTS/RECOMMENDATIONS

Recommended: In-depth knowledge of basic math skills.

TECHNICAL STANDARDS

It is essential that students in this degree program can participate fully and safely, with or without reasonable accommodations in all classrooms, laboratory, or field experiences required for completion of the program. Students in this degree program:

- Must be able to function in a safe manner, not placing themselves, faculty, staff, or other students in jeopardy.
- Must be able to appropriately and safely use standard laboratory equipment, materials, and instrumentation that requires possession of fine motor skills and mobility.
- Must be able to lift 50 pounds of materials up to 5 ft, on to a standard height work bench.
- Must be able to communicate orally with a person 6 to 10 feet away in a shop environment.
- Must be able to diagnose mechanical failures that are distinguished audibly.
- Must be able to understand and retain information found in service repair manuals and diagnostic flow charts.
- Must be able to visually read all displays on welding equipment.
- Must be able to stand for long periods of time.

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.

WELDING - AOS DEGREE

TYPICAL FOUR-SEMESTER PROGRAM

First			
WELD	1105	Int Shided Meti Arc Weld (SMAW	5
WELD	1205	Shielded Metal Arc Weld I	5
WELD	1715	Gas Weld, Cutting & Plasma Cut	5
WELD	1733	Blueprnt Readng,Insp & Test	3
			18
Second			
WELD	2715	Shid Mti Arc & Fix Crd Arc Wid	5
WELD	2725	Gas Metal Arc Welding	5
WELD	2735	Gas Tungsten Arc Welding I	5
WELD	1723	Welders Calculations I	3
			18
Third			
WELD	3005	Shield Metal Arc Welding II	5
WELD	3015	GMAW II, FCAW II	5
WELD	3025	Gas Tungsten Arc Welding II	5
WELD	3813	Metlgy, Codes, Certs & Inspect	3
			18
Fourth			
WELD	4425	GMAW III & GTAW IV	5
WELD	4435	Gas Tungsten Arc Welding III	5
WELD	4445	Welding Fabrication	5
WELD	4013	Senior Project	3
			18

GRADUATION REQUIREMENTS

 A student must successfully complete all courses and earn a minimum cumulative index of 2.0, which is equivalent to a "C" average, in the prescribed four-semester program.



AlfredState.edu | 1-800-4-ALFRED

 Students are required to have earned a minimum grade of "C" in both WELD 1723 (Welders Calc) and WELD 4013 (Senior Project) to be eligible for graduation. (Articulation is available in WELD 1723) Hit the ground $running^{\circ}...$