The Welding and Nondestructive Testing Technology program prepares students for employment as entry-level technicians in construction, manufacturing, and transportation industries. A variety of career opportunities throughout the world are available to welding technicians and nondestructive examination technicians. The AAS degree enables students to develop skills in four main welding processes and three thermal cutting processes.

Educational Pathway Options

**Recommended Preparation**
- Reading and Writing Skills
- Algebra
- Basic Computer Skills
- Welding*

**Associate of Applied Science (AAS)**
- **Welding and Nondestructive Testing Technology**

**Bachelor of Science (BS)**
- Technology
  - (with or without a business option)

**Career Opportunities**
- Certified Welder/Fabricator
- Pipefitter
- NDT Technician
- Quality Control Inspector

* Students may earn college credit through Tech Prep, techprep.uaa.alaska.edu
OFFICE OF ADMISSIONS

1. Apply for admission at www.uaa.alaska.edu/admissions.
2. Review admission requirements for your student type.
3. Submit required documents to UAA Office of Admissions (see below).
4. Take the SAT, ACT, or Accuplacer test for English and math course placement. Call the UAA Advising & Testing Center at 907.786.4500 for testing information.
5. Make an appointment for academic advising at 907.786.6475 and meet regularly with an advisor. For program information, visit www.uaa.alaska.edu/ctc/programs/academic/adt/welding-ndt.
6. Access the Future Students Checklist online at www.uaa.alaska.edu/futurestudents/checklist.cfm to stay on track.

The University of Alaska Anchorage has been continuously accredited by the Northwest Commission on Colleges and Universities since 1974. This brochure is for information purposes only and does not constitute a contract. UAA is an EO/AA employer and educational institution.

APPLICATION PROCESS

STUDENT LEARNING OUTCOMES

Upon completion of this degree, students will have the ability to demonstrate:

- Entry-level technical skills in welding and nondestructive examination.
- Technical knowledge of the interrelationship between welding and inspection processes.
- Hazard assessment and best safety practices to avoid exposing themselves or others to risk of injury and avoiding damage to equipment.
- Effective communication with other employees, customers, and management.

WELDING & NONDESTRUCTIVE TESTING TECHNOLOGY (AAS)

This course sequence is based on the 2010-2011 UAA Course Catalog. Please refer to the current catalog for complete information.

YEARS 1 & 2, FIRST SEMESTER

YEAR 1, FIRST SEMESTER (15 credits)

WELD 112 Shielded Metal Arc Welding (SMAW) (4)
WELD 161 Gas Metal Arc Welding (GMAW) (4)
WELD 162 Flux Cored Welding (FCAW) (4)
GER  Select GER course* (3)

YEAR 1, SECOND SEMESTER (16-18 credits)

WELD 174 Gas Tungsten Arc Welding (GTAW) (4)
GER  Select GER course* (3)
GER  Select GER course* (3)
Choose one of the following (3-4):
- WELD 117 Basic Pipefitting (recommended) (4)
- WELD 118 Welding Fabrication & Manufacturing (4)
- WELD 190 Selected Topics in Welding Technology (3)
- TECH 295 Technical Internship (3)
Choose one of the following (3-4):
- PHYS 101 Physics for Poets (3)
- PHYS 115/L Physical Science w/Lab (4)
- PHYS 123 Basic Physics I (3)

YEAR 2, FIRST SEMESTER (16 credits)

WELD 157 Technical Drawings for Welders (3)
WELD 263 Radiographic Testing Safety (2)
WELD 264 Radiographic Testing (3)
WELD 287 Welding Metallurgy Applications (5)
GER  Select GER course* (3)

YEAR 2, SECOND SEMESTER (14 credits)

WELD 261 Ultrasonic Testing (4)
WELD 262 General Nondestructive Testing (3)
WELD 281 Welding Inspection & Code Review (4)
GER  Select GER course* (3)

* General Education Requirements (GERs)

Complete one to two courses per semester as indicated above. Consult your advisor for recommendations.

Note: Students must pass three separate all-position welder qualification tests, which are offered at the end of WELD 112, 114, 161, 162, and 174; and pass two separate NDT method qualification tests, which are offered at the end of WELD 261 and 264.

A total of 61-62 credits is required for this degree.