

# Welding Technology

## Degree Type

Associate in Applied Science or Diploma

## Contact Information

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## Delivery Methods

Face-to-Face: Wahpeton  
Face-to-Face: Fargo  
Combination

The Welding Technology curriculum is designed to provide students advanced experience in welding as it pertains to assembly, manufacturing, energy, and construction.

This program provides education and training in advanced welding and cutting processes, robotics, computer numerical control operations, inspection, print reading, fabrication, pipe and plate welding, math, communications, and other aspects of general education.

Career opportunities as a Welding technician offer a wide range of employment possibilities in the manufacturing, steel construction, mining, energy, and welding inspection. A diploma or Associate in Applied Science degree will provide higher level employment opportunities in the welding industry.

The NDSCS Welding program is an American Welding Society SENSE certified facility. AWS Level I and Level II certification is available.

The NDSCS Welding program is an educational partner with Weld-Ed, the National Center for Welding Education and Training.

**NOTE:** This program requires an HP EliteBook Laptop or equivalent. Please refer to the NDSCS website for specifications. For further information, contact Clint Gilbertson, NDSCS Wahpeton Welding program coordinator at 701-671-2832 or Mitchell Van Vleet, NDSCS-Fargo program lead at 701-231-6902.

## Admission Requirements\*

The applicants must be high school graduates or equivalent. Students considered for acceptance must complete all admission requirements.

**Please Note:** Students are placed into English, math and reading courses based on ACT, ACCUPLACER or other nationally recognized tests. Please see [www.ndscs.edu/current-students/student-success/test-center](http://www.ndscs.edu/current-students/student-success/test-center) for the NDSCS Course Placement Policy and testing information. Students may be on an extended plan of study pending their course placement.

## \*\*Additional Admission Requirements\*\*

The Diploma and Associate in Applied Science Degree 2nd year option in Welding Technology is a limited enrollment program. Applicants will be selected on a point system. The following criteria are used to rank students for selection.

1. Completion of the Welding certificate program or substantial progress toward completion of the certificate program.
2. Cumulative NDSCS GPA from fall semester plus midterm assessment of the spring semester in the certificate program.
3. Successful completion of all certificate program core welding and manufacturing courses with a "C" or higher.

*\*Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information*

### Award

Upon successful completion of the required courses, students will be awarded a diploma or Associate in Applied Science degree in Welding Technology.

## Diploma and Associate in Applied Science

Course Code	Title	Credits
MFGT 101	Robotics I	2
	MFGT 110 or MFGT 135	2
MFGT 123	Fabrication Methods I	2
MFGT 137	Print Reading I	2
MFGT 140	Fabrication Methods II	2
MFGT 141	Print Reading II	2
WELD 151	Welding Theory I	3
WELD 152	Welding Theory II	3
WELD 153	Welding Lab I	5
WELD 154	Welding Lab II	5
WELD 201	Welding Theory III	4
WELD 202	Welding Theory IV	4
WELD 211	Welding Lab III	7
WELD 212	Welding Lab IV	7

## Related/General Education Courses Diploma

Course Code	Title	Credits
	ENGL 105 or ENGL 110	3
MATH 130	Technical Math	2
MATH 132	Technical Algebra I	2
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives (4 credits)	4
	Wellness Elective (1 credit)	1
FYE 101	Science of Success	1

## Associate in Applied Science

Course Code	Title	Credits
ENGL 110	College Composition I	3
	English/Communication Elective (choose one)	3
MATH 130	Technical Math	2
MATH 132	Technical Algebra I	2
MATH 136	Technical Trigonometry	2
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives (4 credits)	4
	Wellness Elective(s) (2 credits)	2
FYE 101	Science of Success	1
<b>Total Required Credits</b>		<b>63-69</b>