

Welding Technology Diploma or Associate Degree

► Contact Information

Clint Gilbertson
program coordinator – NDSCS Wahpeton
clinton.gilbertson@ndscs.edu
701-671-2329
Trade Tech II – 158

Mitchell Van Vleet
program lead – NDSCS-Fargo
mitchell.vanvleet@ndscs.edu
701-231-6902
NDSCS-Fargo 145

► 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.

Admission Requirements*

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

Required minimum placement scores:

<u>ACT</u>	<u>ACCUPLACER</u>	<u>ACCUPLACER</u>
Reading – 15	Reading Comp – 61	<u>NEXT GENERATION</u>
English – 15	WritePlacer – 3-4	Reading – 240
Math – 15	Arithmetic – 51	Writing – 237
	Elementary Algebra – 25	QAS – 225

Or transfer equivalencies will apply as appropriate

Applicants not meeting the above requirements are encouraged to visit with the academic counselor at 701-671-2257 or the Manufacturing Technology department chair at 701-671-2478 for strategies to meet the admission requirements.

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.*

Course Code	Course Title	Credits
Diploma and Associate in Applied Science		
MFGT 101	Robotics I	2
MFGT 110	Industrial Shop Practices <i>OR</i>	
MFGT 135	Basic Metallurgy	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

ENGL 105	Technical Communications	3
or ENGL 110	College Composition I (3)	
MATH 130	Technical Mathematics	2
MATH 132	Technical Algebra I	2
Social and Behavioral Sciences, Humanities, History and/or Computer Electives		4
Wellness Elective		1
FYE 101	Science of Success	1

Associate in Applied Science

ENGL 110	College Composition I	3
English/Communication Elective (choose one)		3
ENGL 105	Technical Communications	
ENGL 120	College Composition II	
ENGL 125	Introduction to Professional Writing	
COMM 110	Fundamentals of Public Speaking	
MATH 130	Technical Mathematics	2
MATH 132	Technical Algebra I	2
MATH 136	Technical Trigonometry	2
Social and Behavioral Sciences, Humanities, History and/or Computer Electives		4
Wellness Electives		2
FYE 101	Science of Success	1

Total Required Credits for Diploma

63

Total Required Credits for Associate in Applied Science

69

Award

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