Welding Technology Diploma or Associate in Applied Science

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 850 Laptop or equivalent. Please refer to the NDSCS website for specifications. The cost will be approximately $1065 if purchased through NDSCS. 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 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.

Course Code | Course Title | Credits
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MFGT 101 | Robotics I | 2
MFGT 110 | Industrial Shop Practices OR | 2
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 | 3
ENGL 120 | College Composition II | 2
ENGL 125 | Introduction to Professional Writing | 2
COMM 110 | Fundamentals of Public Speaking | 2
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

*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.

Revised: May 2022