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.

**Recommended:**
- Contact Information
  - Vance Harthun
    - program coordinator – NDSCS Wahpeton
    - vance.harthun@ndscs.edu
    - 701-671-2434
  - Trade Tech II – 147
  - Lee Larson
    - program lead – NDSCS-Fargo
    - lee.a.larson@ndscs.edu
    - 701-231-6932
  - NDSCS-Fargo 163

**Delivery Methods**
- Face-to-Face: Wahpeton
- Face-to-Face: Fargo

**Course Code**
- Diploma and Associate in Applied Science

**Course Title**
- Robotics I
- RECENT HIGHER
- Basic Metallurgy
- Fabrication Methods I
- Fabrication Methods II
- Print Reading I
- Print Reading II
- Welding Theory I
- Welding Theory II
- Welding Lab I
- Welding Lab II
- Welding Theory III
- Welding Theory IV
- Welding Lab III
- Welding Lab IV

**Credits**
- 2
- 2
- 2
- 2
- 2
- 3
- 3
- 5
- 5
- 4
- 4
- 4
- 7
- 7

**Required/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
  - CIS 101 – Computer Literacy – 2 cr
  - PSYC 100 – Human Relations in Organizations – 2 cr
  - 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 2
- 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

**Recommended:**
- CIS 101 – Computer Literacy – 2 cr
- PSYC 100 – Human Relations in Organizations – 2 cr
- 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.

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

Revised: September 2019