

2018-2019

SOUTHEAST
COMMUNITY
COLLEGE
NEBRASKA

WELDING TECHNOLOGY

Associate of
Applied Science
Degree

Diploma

Certificate

LINCOLN CAMPUS

www.southeast.edu/Welding



Discover why our Welding Technology program is so popular. We provide students with comprehensive training in current welding practices and procedures. Potential careers are in the oil and gas industry, automotive, manufacturing, military, and others.



Program Overview

This program is located on the Lincoln Campus and includes classroom instruction and extensive hands-on training. Some of the welding and cutting processes utilized include shielded metal arc, gas metal arc, gas tungsten arc, flux cored arc, plasma arc, and oxy-fuel. Blueprint reading, layout, inspection, and quality control skills also are widely utilized.

The program meets AWS, API and ASME standards and is an AWS-accredited test facility. The curriculum focuses on current welding practices and procedures, metallurgy, destructive and nondestructive testing, inspection, and principles of fabrication and design.



Graduate Earnings

Recent graduates report an average starting wage of \$25.45 per hour.

For more information contact:

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Lincoln 402-437-2600, 800-642-4075 ext. 2600



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General Education Requirements:

Contact your program advisor to select general education courses from each category which will meet your program's graduation requirements. See the General Education pages online for a complete list.

(One class from each area below.)

Oral Communications	4.5
Written Communications	4.5
Mathematics	4.5

(Plus two classes from the four areas below; no two classes from the same area.)

Critical Thinking & Problem Solving, Global Awareness and Citizenship, Analytical, Quantitative and Scientific Reasoning, and/or Career and Life Skills.

See catalog for eligible classes. 9.0

22.5 hours

Welding Courses:

Course #	Course title	Credit hrs
WELD1110	SMAW Theory	2.0
WELD1112	SMAW Lab I	4.0
WELD1113	SMAW Lab II	4.0
WELD1115	Equipment & Tools	1.5
WELD1117	Oxyacetylene Theory	2.0
WELD1119	OA Welding & Cutting	3.0
WELD1122	GMAW Theory	3.0
WELD1124	GMAW Lab I	3.0
WELD1126	GMAW Lab II	3.0
WELD1128	Blueprint Reading & Weld Symbols	5.0
WELD1129	Computer Aided Drafting	2.5
WELD1130	Metallurgy	6.0
WELD1135	Advanced OA & Plasma Cutting	2.0
WELD1139	Welding Measurement & Layout	4.0
WELD1143	Pipe Welding & Cutting	3.0
WELD1144	GTAW Theory	2.0
WELD1148	GTAW (Mild Steel)	4.0
WELD1149	GTAW (SS & AL)	3.0
WELD2251	FCAW I	2.0
WELD2254	Welding Codes & Standards	2.5
WELD2256	Welder Pre-Qualification	5.0
WELD2258	Welder Qualification/Certification	3.0
WELD2262	Welding Fabrication & Repair	4.0
WELD2264	Quality Control & NDT Methods	<u>5.0</u>

78.5 hours

WELD1120	SMAW Lab III	4.0
WELD1252	GMAW (SS & AL)	3.0
WELD1273	Special Welding Applications**	3.0
WELD2252	FCAW II	2.0
	or	
WELD2901	Cooperative Experience	<u>12.0</u>

12.0 hours

**A maximum of 3.0 credit hours of Special Welding Applications can be used toward any award.

Certificate: Requires 31.5 credit hours of welding courses plus one General Education course for a total of 36.0 hours. See program advisor.

Diploma: Requires 59.0 credit hours of welding courses, and two General Education courses, one of which must be MATH1040 or higher, for a total of 68.0 hours. See program advisor.

A.A.S. Degree: Requires 91.5 credit hours of welding courses and five General Education courses (22.5), for a total of 113.0 hours. See program advisor.

Tool/Supply List:

- Safety glasses
- Burn jacket
- Welding gloves
- GTAW welding gloves
- High top leather boots
- Arc Welding Helmet
- Ear plugs
- Oxygen acetylene welding goggles/helmet
- 4 1/2" Grinder
- 4 1/2" Grinder disks
- 4 1/2" Sanding disks
- Combination pliers
- Oxygen acetylene tip cleaner set
- 6" Steel ruler
- Carbide tipped scribe
- Chipping hammer
- Wire brush
- Calculator
- Combination square
- Cold chisel
- 8" or 10" flat file
- Metal paint marker
- Fillet welding gauges
- Side cutter pliers

Optional Tools: (See Instructor)

- 2 - Vice grip "C" clamps
- Stainless steel wire brush
- Poster board
- Telescoping mirror
- Welding cap
- File set
- 12" Adjustable wrench
- Drill bit set
- Punch set
- 3/8" Drive socket set

- Small flashlight
- Hacksaw blade
- Soapstone and holder
- Welding vice grips (2 pairs)
- Ball peen hammer
- 10' - 25' tape measure
- Bevel Protractor
- V-WAC gage
- GTAW Kit
- Drafting Set
- 3/32" 2% Thoriated tungsten
- 3/32" Pure tungsten
- 3/32 E3

Estimated Expenses

Nebraska Resident tuition/fee rate is \$69.50 per credit hour. Out-of-state tuition/fee rate is \$83.50 per credit hour. Graduation fee is \$25.

Housing is available at Beatrice and Milford campuses only. Tuition, books and fees are dependent upon classes taken each quarter.

Students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

FIRST QUARTER EXPENSES

Tuition And Fees	\$1,147
Books	620
Tools/Supplies	350
Total	\$2,117

FOURTH QUARTER EXPENSES

Tuition And Fees	\$1,390
Books	270
Tools/Supplies	80
Total	\$1,740

SECOND QUARTER EXPENSES

Tuition And Fees	\$1,286
Books	375
Tools/Supplies	100
Total	\$1,761

FIFTH QUARTER EXPENSES

Tuition And Fees	\$1,216
Tools/Supplies	80
Total	\$1,296

THIRD QUARTER EXPENSES

Tuition And Fees	\$1,460
Tools/Supplies	80
Total	\$1,540

SIXTH QUARTER EXPENSES

Tuition And Fees	\$1,355
Books	210
Tools/Supplies	80
Certification Test	150
Total	\$1,795

Total Estimate For Program \$10,249



A giant metal apple titled "Potential" is the creation of two Welding Technology students, Porsche Johnson and Courtney Cuddeford, and is located on the east side of the Lincoln Campus.



Welding students Cole Andersen, Curtis Hartshorn, Lebari Abiikor, Zach Bohlmeyer, Josh Waters, and Alex Salzman designed and created this bronze "wheat" sculpture.

It is now displayed outside the Great Plains Culinary Institute on the Lincoln Campus.

