

## Career Education

### Welding Technology-AAS

The program includes hands-on application of shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), and gas metal arc welding (GMAW) processes, in all positions, using pipe, plate and structural shapes. The welding training you will receive through this program can prepare you to work in a wide range of areas, such as shipbuilding, aerospace technology, automobile manufacturing, or working on the pipeline. Welding is also used to connect beams and structures in buildings, for bridges, and much more. This means the potential opportunities for where you can find employment are even greater than you might have thought.

There are over 100 kinds of welding methods and your training can introduce you to the most commonly used, such as arc welding, TIG, MIG, and soldering and brazing by a certified welding inspector. You will be shown how to perform various techniques, such as flat, horizontal, overhead, and vertical welding. You could also learn the difference between manual, semi-automated, and automated welding. Students can be certified in these areas of welding by the American Welding Society (AWS) and The National Center for Construction Education and Research (NCCER). The requirements for this program enable the individual to earn several welding certifications.

The Associate of Applied Science degree in Welding Technology is designed to prepare the individual for a career as a welding technician in the fabrication, construction and manufacturing industries.

#### Associate of Applied Science

#### Welding Technology

Total Program = 60 Credit Hours

*The fourth digit of the course number indicates the number of credit hours.*

### University Requirement - 1 or 3 hours

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The 3-hour credit course is required for students who must take at least one remedial course. Students who are not required to take a remedial course may take the 3-hour credit course. In both situations, the courses (1-hour or 3-hour) count toward electives.

UNIV 1001 Principles of Academic Success I

UNIV 1003 Principles of Academic Success III

#### Department

University

University

### General Education Core - 21 hours

#### English - 3 hours

#### English

ENG 1003 Freshman English I

#### Department

English

#### English/Communications - 3 hours

**English/Communications**

Choose one course below.

- ENG 1013 Freshman English II
- ENG 2033 Technical Writing and Communication

**Department**

- English
- English

**Speech/Math/Computer - 9 hours**

**Speech/Math/Computer**

- SPCH 1203 Oral Communications
- MATH 1013 Technical Mathematics A, B, C, D, E, J, M and V
- CIS 1503 Microcomputer Applications I

**Department**

- Speech
- Mathematics
- Computer Information Systems

**Psychology/Sociology - 3 hours**

**Psychology/Sociology**

- Choose one course below.
- PSY 2013 Introduction to Psychology
  - SOC 2213 Principles of Sociology

**Department**

- Psychology
- Sociology

**U.S. History/Government - 3 hours**

**U.S. History/Government**

- Choose one course below.
- HIST 2763 The United States to 1876
  - HIST 2273 A Survey of African History
  - POSC 2103 Introduction to United States Government

**Department**

- History
- History
- Political Science

**Welding Technology Core - 24 hours**

**Welding Technology Core**

- WELD 1004 Shielded Metal Arc Welding
- WELD 1104 Gas Metal Arc Welding
- WELD 1204 Gas Tungsten Arc Welding
- WELD 1304 Metal Fabrication
- WELD 2004 Advanced Shielded Metal Arc Welding
- WELD 2204 Advanced Gas Tungsten Arc Welding

**Department**

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**Welding or Technical Related Electives - 15 hours**

**Welding or Technical Related Electives**

**Department**