



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 in the course number indicates the number of credit hours.

UNIVERSITY REQUIREMENT—1 OR 3 HOURS

University—1 HOUR or 3 HOURS

UNIV	1001	Principles of Academic Success I
UNIV	1003	Principles of Academic Success III

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.

Department

University
University

GENERAL EDUCATION CORE—15 HOURS

English—6 HOURS

ENG	1003	Freshman English I
ENG	1013	Freshman English II

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English
English

Math/Computer—6 HOURS

MATH	1013	Technical Mathematics (or higher)
CIS	1503	Microcomputer Applications I

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Mathematics
Comp Info Sys

Psychology/Sociology/History—3 HOURS

Choose one below.

PSY	2013	Introduction to Psychology or
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Psychology

Transforming lives through quality learning experiences





SOC	2213	Principles of Sociology or
HIST	2763	The United States to 1876 or
HIST	2773	The United States since 1876

Sociology
History
History

WELDING TECHNOLOGY CORE—42 HOURS

Requirements—42 HOURS

WELD	1003	Shielded Metal Arc Welding
WELD	1103	Gas Metal Arc Welding
WELD	1203	Gas Tungsten Arc Welding
WELD	1303	Metal Fabrication
WELD	1013	Visual Inspection (new course)
WELD	2013	Advanced Visual Inspection (new course)
WELD	2023	Fluxcore (new course)
WELD	2003	Advanced Shielded Metal Arc Welding
WELD	2203	Advanced Gas Tungsten Arc Welding
WELD	2113	Pipe Welding
WELD	2303	Advanced Metal Fabrication
WELD	2103	Advanced Gas Metal Arc Welding
WELD	2123	Technical Blueprint Reading
CMT	2113	Industrial Environment

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Welding Technology
Computerized Mach

TECHNICAL RELATED ELECTIVES—3 HOURS



Welding Technology—TC

The Technical Certificate in Welding Technology prepares the individual to obtain marketable welding skills and the opportunity to earn various welder certifications as defined by the American Welding Society. Courses completed in this program may be applied toward the Associate of Applied Science degree in Welding Technology.

TECHNICAL CERTIFICATE WELDING TECHNOLOGY

Total Program = 33 Credit Hours

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

Requirements—6 HOURS

COM	1003	Career Communications or
ENG	1003	Freshman English I
MATH	1013	Technical Mathematics (or higher)

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Career Communications

Mathematics

Welding Technology Core—21 HOURS

WELD	1003	Shielded Metal Arc Welding
WELD	1103	Gas Metal Arc Welding
WELD	1203	Gas Tungsten Arc Welding
WELD	1303	Metal Fabrication
WELD	1013	Visual Inspection
WELD	2123	Technical Blue Print Reading
CMT	2113	Industrial Environment

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Advanced Welding Technology Core—6 HOURS

Choose two from below:

WELD	2003	Advanced Shielded Metal Arc Welding
WELD	2103	Advanced Gas Metal Arc Welding
WELD	2113	Pipe Welding
WELD	2203	Advanced Gas Tungsten Welding

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Welding Technology



Welding Technology—CP

The Certificate of Proficiency in Welding Technology prepares the student for entry-level employment as a structural welder. Courses completed in this program may be applied toward the Technical Certificate and the Associate of Applied Science degree in Welding Technology.

CERTIFICATE OF PROFICIENCY WELDING TECHNOLOGY

Total Program = 12 Credit Hours

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

Requirements—12 HOURS

Choose any of the following courses:

WELD	1003	Shielded Metal Arc Welding
WELD	1103	Gas Metal Arc Welding
WELD	1203	Gas Tungsten Arc Welding
WELD	2123	Technical Blueprint Reading

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