Welding Technology
Associate of Applied Science Degree

Career and Technical Program
The Welding Technology program is designed to prepare students for entry-level employment. The program complies with national standards established by the American Welding Society (AWS). It combines theory and applied shop practice designed to develop welding skills. Students receive instruction on welding processes including OAC (oxy-acetylene cutting), SMAW (shielded metal arc welding), GMAW (gas metal arc welding), and GTAW (gas tungsten arc welding), as well as blueprint reading, layout procedures, metallurgy, and safety.

Successful completion of each semester and/or permission of the instructor is required for acceptance into the next semester. Placement in specific English and math courses is determined by the college assessment test. Due to the complexity of the second year welding courses a prerequisite requiring the completion of MCTE-106 or higher is required to gain admission to the second year. Prospective students who do not meet the initial eligibility requirements for a career and technical limited enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

Note: Current industry professionals may enroll in individual courses on a space-available basis and with the instructor’s permission.

Program Requirements

First Semester
Course No. Title Credits
WELD-105 Welding Theory 2
WELD-112 Safety and Leadership 2
WELD-121 Blueprint Reading for Welders 2
WELD-187L SMAW Practical 4
WELD-188L Advanced SMAW Practical 1
WELD-197L Oxy/Fuel Cutting Lab 1
________ A.A.S. Mathematical Ways of Knowing 1 3-5
Semester Total 15-17

Second Semester
ENGL-101 English Composition 2 3
WELD-100B Welding Theory 2
WELD-131 Advanced Blueprint Reading 3
WELD-182L Welding Lab II 6
Semester Total 14

Third Semester
COMM-101 Introduction to Speech Communication 2 3
WELD-225 Advanced Welding Theory 3
WELD-226 Layout/Mechanical Drawing 2
WELD-281L Shielded Metal Arc Welding 7
________ A.A.S. Institutionally Designated 1 3
Semester Total 17

Fourth Semester
WELD-227 Advanced Welding Theory II 3
WELD-228 Advanced Mechanical Drawing 3
WELD-291L Gas Tungsten Arc Welding Lab 6
________ A.A.S. Social and Behavioral Ways of Knowing 3 3
Semester Total 15
Program Total 61-63

Notes:
1. Mathematics requirement includes any math course that is MATH 123 or higher and meets the A.A.S. degree requirements listed on page 50.
2. Satisfies A.A.S. degree requirement.
3. Select from A.A.S. degree general education requirements listed on page 50.