

# WELDING TECHNOLOGY



A.A.S. Degree

Minimum 62 hours

Career & Technical Education • Associate in Applied Science Degree • Minimum 2.0 OGPA • Major Code: DWT



**American Welding Society**

Educational Institution Member

## FIRST YEAR

## SECOND YEAR

Fall Semester		Credit Hrs
ENG 121	Rhetoric & Composition I	3
MATH 151	Occupational Math	4
WELD 112	Metallurgy/Blueprint Reading	4
WELD 131*	Arc Welding I	3
WELD 132*	Gas Welding & Cutting	3
Total Hours		17

Fall Semester		Credit Hrs
HYG 121	Science of Personal Health	3
WELD 137*	Pipe Welding	3
WELD 151*	MIG Welding	3
ELECTIVE**		3
ELECTIVE**		3
Total Hours		15

Spring Semester		Credit Hrs
ENG 122 or COM 146	Rhetoric & Composition II Business & Professional Communication	3
WELD 133*	Low Hydrogen I	3
WELD 134*	Low Hydrogen II	3
WELD 135*	Advanced Gas Welding	3
WELD 139*	TIG Welding	3
Total Hours		15

Spring Semester		Credit Hrs
PSYC 131 or PSYC 121	Human Relations Intro Psychology	3
WELD 138	Industrial Welding	6
WELD 192	Extended Welding Certificate	3
GENERAL ELECTIVE		3
Total Hours		15

\*These courses are taught in eight week units.

\*\*SUGGESTED ELECTIVES (choose two): DRA 130-3 Intro to Computer Aided Design, DSL 130-3 Basic Mechanical Skills, DSL 157-3 Basic Internal Combustion Engines, DSL 158-3 Hydraulics I, WELD 111-3 Basic Welding, GRAP 121-3 Engineering Graphics I.

SUGGESTED GENERAL ELECTIVES (choose one): PHYS 121-4 Physics, BUS 191-3 Financial Accounting, BUS 297-3 Business Law I. If no prior computer experience, IT 119-3 Basic Software Applications is recommended.

**SPECIAL FACILITIES:** The Welding Lab is located in the Robert I. Gregg Technology Center. The well-equipped lab is updated and maintained for quality training and instruction.

**SPECIAL REQUIREMENTS:** Students will need the following items: ear plugs, welding goggles, welding gloves, a welding helmet, and appropriate welding clothing and shoes that will provide protection from rays, sparks and hot metal fragments. Protective clothing and safety glasses must be worn at all times while in the Welding Lab.

**THIS WELDING TECHNOLOGY PROGRAM is recognized by the American Welders Society.** Southeastern Illinois College is an education institutional member of the American Welders Society. Students who complete this coursework are eligible to take the industry standard certification exams for AWS certification.

**Also, students may credit the A.A.S. Degree in Welding Technology** toward the Bachelor of Science Degree in Workforce Education & Development through the unique Capstone Program at Southern Illinois University at Carbondale, Illinois. See the Workforce Education & Development Curriculum Guide for courses students can take at Southeastern in addition to the A.A.S. Degree for SIUC. See a Counselor for professional guidance.

**Occupational information** about this program is available at O\*NET online [www.onetonline.org](http://www.onetonline.org). Once at that website enter the SOC Code that is listed for this program. O\*NET – SOC Code: 51-4121.00, 51-4121.06, 51-4121.07, 51-4122.00

### Career Opportunities:

Welding Technician, Welding Specialist, Welding Supervisor, Welding Instructor, Inspector.

### Major Employers:

Metal Product and Transportation Equipment Manufacturers, Construction Firms, Fabrication Industries, Machine Shops, Mining Companies, Colleges & Universities, Vocational & Technical Schools, Training Institutes.

05/18