

# INDUSTRIAL WELDING TECHNOLOGY

**IMPORTANT NOTE:** The American Welding Society Level 1 Certificate may be of interest to you. Industrial Welding Technology is currently under review. Please contact the Welcome Center (309.345.3500 or welcomecenter@sandburg.edu) or your advisor for more information.

## Industrial Welding Technology AAS

The Welding program is designed to provide the graduate with skills needed to enter employment in local industry as an entry-level welding supervisor for construction firms, agricultural enterprises, and heavy machine fabrication. This certificate program is designed to provide students a hands-on welding certificate that emphasizes training and the mastery of welding techniques. The welding program emphasizes welding skill proficiency through lab activities and projects as learning activities. All the courses contain essential components required for success in the industry today such as mathematics, communication, attendance, and productivity.

### Long-term Benefits:

- Increased labor pool to replace retiring workers
- Increased selection for new hires
- Overall increased quality of work force
- Overall increased quality of manufacturing in western Illinois
- Increased technical expertise of existing work force

### Admission to the Program: Open

#### First-Time Enrollees

1. Complete an application for admission and, if desired, apply for financial aid.
2. Send an official high school transcript or GED score report to the Admissions and Records Office.
3. Complete the placement exam.
4. Meet with an advisor/counselor to select classes and complete the registration process.

### DEPARTMENT OF CAREER & TECHNICAL EDUCATION

2400 Tom L. Wilson Blvd.  
Galesburg, IL 61401  
Phone: 309.341.3501

### For Additional Information Contact:

The Welcome Center  
Phone: 309.345.3500  
welcomecenter@sandburg.edu

### For Graduation Requirements:

See the graduation policies and procedures page for details.

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Course	Title	Semester Hours
<b>First Year</b>		
<b>Fall Semester</b>		
MAT.101	Technical Mathematics 1	3
MET.100	Metallurgy Fundamentals	2
MFG.100	Introduction to Welding	3
WEL.125	Welding Blueprints	2
WEL.160	Oxyacetylene Welding & Metal Preparation	3
WEL.162	Arc Welding Basics	3
<b>Spring Semester</b>		
MAT.102	Technical Mathematics 2	3
MFG.125	Industrial Blueprints	3
MFG.130	Industrial Safety	2
WEL.164	Arc Welding Advanced	3
WEL.166	Gas Shielded Arc Tig	3
<b>Second Year</b>		
<b>Fall Semester</b>		
ELT.100	Electrical Fundamentals	3
MTL.103	Manufacturing Processes	2
TQM.101	Total Quality Management	2
WEL.168	Gas Shielded Arc Mig	3
WEL.170	Applications of GMAW & FCAW	3
SPE.110	Interpersonal Communication	3
	or SPE.120 or Introduction to Public Speaking	
<b>Spring Semester</b>		
PHY.110	Applied Physics	3
WEL.126	Weld Test Evaluation	3
WEL.149		2
WEL.172	Welding Applications	3
PSY.101	Introduction to Psychology	3
	or PSY.107 or Positive Psychology	
	or SOC.101 or Introduction to Sociology	
Total Semester Hours		60

### Bart Slye

Instructor, Welding

### Ellen Burns

Dean of Career and Technical Education

The Center for Manufacturing Excellence (CME) offers classroom space, a computer lab, and houses Carl Sandburg College's welding program. The College's weld lab offers 26 bay stations. The welding area offers two welding simulators, as well as state of the art multi process welding machines.