

The Welding program is designed to give students a solid foundation in the principles, practices, and usage of both gas and electric welding in the industrial setting. Students get ample practice in welding skills, brazing, and flame cutting. Instruction emphasizes production fabrication techniques, maintenance and repair procedures, blueprint reading, properties of metals, and inspection methods, among other aspects of the welding trade. SCC is an accredited American Welding Society (AWS) testing facility. Students will have the opportunity to obtain AWS Certifications.

There are several levels of welding certificates, a diploma, and an associates of applied science degree. See the links below for details.

The [Basic Welding Processes certificate](#) is awarded after successful completion of WEL-111, WEL-160, WEL-186 and WEL-192.

The [Advanced Welding Processes certificate](#) is awarded after earning the Basic Welding Processes certificate and successful completion of WEL-130, WEL-164, WEL-172, WEL-197 and MAT-702.

The [Welding diploma](#) is awarded after successful completion of the first two semesters. (This is equivalent to the Advanced Welding Processes certificate and successful completion of ENG-110.)

The [Advanced Manufacturing Welding Processes certificate](#) is awarded after earning both Welding Processes certificates and successful completion of WEL-182, WEL-198, WEL-292, WEL-235 and WEL-720.

The [Welding AAS degree](#) is awarded after successful completion of all five semesters.

#### **Where will this take me?**

Construction Welder  
Industrial Welder  
Maintenance Welder  
Pipe Welder

#### **Instructor and Staff**

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*Southeastern Community College values diversity in all its forms. Please visit [http://www.scciowa.edu/\\_resources/docs/scc-nondiscrimination-statement.pdf](http://www.scciowa.edu/_resources/docs/scc-nondiscrimination-statement.pdf) to view our nondiscrimination statement.*

*For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit SCC's financial aid website at <http://www.scciowa.edu/admissions/costaid/finaid/gainemp.aspx>*

## West Burlington Campus

### Program Requirements

Fall Semester I		Credit
MAT-702	INTRODUCTION TO MATH APPLICATIONS	3
WEL-111	WELDING BLUEPRINT READING	3
WEL-160	ARC WELDING I (SMAW)	5
WEL-186	GAS METAL ARC WELDING	4
WEL-192	GAS TUNGSTEN ARC WELDING	4
Spring Semester I		Credit
ENG-110	WRITING FOR THE WORKPLACE	3
WEL-130	OXYACETYLENE WELDING	2
WEL-164	ARC WELDING II (SMAW)	4
WEL-172	ADVANCED SHIELDED METAL ARC WELDING II	4
WEL-197	GAS TUNGSTEN ARC WELDING - TUBE	3
Summer Semester		Credit
SOC-115	SOCIAL PROBLEMS	3
Fall Semester II		Credit
DRF-113	FUNDAMENTALS OF TECHNICAL DRAFTING	3
SDV-125	WORKPLACE READINESS	1
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3
WEL-182	FLUX CORED ARC WELDING	2
WEL-198	ADVANCED GAS METAL ARC WELDING - ALUMINUM	2
WEL-292	PIPE WELDING/SMAW - UPHILL	4
Spring Semester II		Credit
MGT-130	PRINCIPLES OF SUPERVISION	3
PSY-102	HUMAN AND WORK RELATIONS	3
WEL-235	LAYOUT & FABRICATION	4
WEL-720	INTRODUCTION TO ROBOTIC ARC WELDING	2
Program Total.....		65-65