

WELDING TECHNOLOGY

Associate in Applied Science Degree (0062)

FIRST YEAR

Fall Semester			Semester Credits
CMT 244	Occupational Safety & Health I	3	
HES 151	Personal Health and Wellness	2	
WLDT 101	Introduction to Welding	6	
WLDT 106	Weld Fabrication Blueprint Reading	3	
GT 105	Introduction to Technical Mathematics OR		
MATH 112	College Algebra OR		
	Higher Level Math	4	
Total Semester Credits			18

Spring Semester			Semester Credits
ENG 101	Rhetoric & Composition I	3	
MGMT 213	Human Relations in the Workplace OR		
MGMT 214	Principles of Management OR		
MGMT 221	Fundamentals of Labor Relations	3	
WLDT 152	All Position Arc Welding	5	
WLDT 107	Adv. Blueprint Reading	2	
Humanities OR	Social Science Course	3	
Total Semester Credits			16

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SECOND YEAR

Fall Semester			Semester Credits
WLDT 201	Advanced Arc Welding	6	
Communications Courses OR		3	
ENG 103	Technical Communication		
Human Relations Course		3	
Technical Electives*		5	
Total Semester Credits			17

Spring Semester			Semester Credits
WLDT 252	Pipe Welding	4	
WLDT 253	GTAW/GMAW/FCAW/PAC	4	
WLDT 254	Testing and Inspection of Welds	3	
WLDT 255	Layout and Fitup for Welders	3	
Technical Electives*		5	
Total Semester Credits			19

Total Program Credits **70**

**Any course with a CAD, CMT, EET, HVAR, IDP, IML, PMT or WLDT prefix*

CERTIFICATES

Welding Technology Certificate (062A)

WLDT 101	Introduction to Welding	6
WLDT 106	Weld Fabrication Blueprint Reading	3
WLDT 152	All Position ARC Welding	5
Total Semester Credits		14

Welding Technology Advanced Certificate (062B)

WLDT 107	Advanced Blueprint Reading	2
WLDT 201	Advanced ARC Welding	6
WLDT 253	GTAW/GMAW/FCAW/PAC	4
Total Semester Credits		12

Welding Technology Specialized Certificate (062C)

WLDT 252	Pipe Welding	4
WLDT 254	Testing and Inspection of Welds	3
WLDT 255	Layout and Fitup for Welders	3
Total Semester Credits		10

Advanced Welding Manufacturing (062D)

WLDT 260	Welding Automation	5
WLDT 270	Robotic Welding & CNC Cutting	5
Total Semester Credits		10



For more information about
Welding Technology,
call: **866-942-SWIC (7942), ext. 5377 or 7423**
or visit the website at swic.edu/welding.

SWIC provides specific consumer, textbook and gainful employment information to current and prospective students through the college website and printed materials. For consumer information, visit swic.edu/consumer-information. For student and academic information, refer to swic.edu/catalog or visit Enrollment Services at any SWIC campus for a copy of the catalog. To view the Student Handbook, refer to swic.edu/student-handbook. For textbook information, go to swic.edu/bookstore or visit the Barnes & Noble bookstores at the Belleville or Sam Wolf Granite City campuses.

SWIC ensures that equal educational opportunities are offered to students regardless of race, color, religion, sex (including pregnancy, gender identity and sexual orientation), national origin, age (40 or older), disability or genetic information, or veteran status. All academic, extracurricular, research and other educational programs and activities are non-discriminatory.

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Belleville Campus, 2500 Carlyle Ave.
Sam Wolf Granite City Campus, 4950 Maryville Road
Red Bud Campus, 500 W. South Fourth St.

Welding Technology

**SOUTHWESTERN
ILLINOIS COLLEGE**



March 2020

ABOUT THE PROGRAM

The American Welding Society recognizes the Welding Technology program at Southwestern Illinois College as one of the best in the nation. The program provides expert training to beginning welders, as well as a chance for experienced welders to upgrade their skills. Students gain extensive hands-on experience and learn about employer-employee relationships in preparation for the job market.

The college’s welding shop has state-of-the-art equipment, and instructors offer students years of experience as well as knowledge of the latest trends in welding. Members of the faculty also are active in the American Welding Society, AWS St. Louis Section, and National AWS Committee.

The SWIC Welding Technology program frequently serves as a model for other schools, and its students do well in state and national competitions. The college is a member of SkillsUSA.

Students can earn Welding certificates in one or two semesters or stay in the two-year Associate in Applied Science degree program, which combines Welding and academic courses. Part-time, evening students can complete certificates in two to four semesters.

Students learn shielded metal arc welding; gas metal arc welding, including short circuit, globular and spray transfers; flux cored arc welding; plasma arc welding and cutting; acetylene welding and cutting; gas tungsten arc welding; blueprint reading; layout fitup; and weld inspection.

The laboratory is open six days per week, 70 hours per week to maximize hands-on experience. Day students attend classes four or five days per week; night students attend classes two or three nights per week. The program recycles the 30,000 pounds of filler metal and 50 tons of metal students use each year.

CAREER OPPORTUNITIES

Careers:

Welder, fitter, welding inspector, welding technician, layout position

Prospects:

The market for skilled welders is expanding as the industry’s use of technology advances. Welding is essential to manufacturing, construction, computers, electronics, and automobile and aircraft production. Welders also are needed for X-ray repair on pressure vessels and for repairing or rebuilding farm and manufacturing equipment. SWIC works with several corporations and trade unions to train welders.

Salary:

The median salary for cutters, solderers and brazers is \$39,390 or \$18.94 per hour.

Source: [bls.gov](https://www.bls.gov).

ADMISSION PROCEDURES

The Welding Technology program at SWIC is open to high school graduates, high school equivalency recipients and students transferring from an accredited college or university. Students who want to take WLDT 101 Introduction to Welding or WLDT 106 Welding Fabrication Blueprint Reading, may enroll without contacting the program coordinator. Students who wish to enroll in any other Welding course should call the program coordinator at 618-235-2700, ext. 5377 or 7476, or try ext. 5252.

Placement Testing

Computer-based placement tests are available at each SWIC campus. Once students have completed the New Student Information Form and received their SWIC Student ID Number, they may go to any SWIC Testing Center and take this test.

Visit swic.edu/testing-center for locations and hours. This test identifies skill levels in math, reading and language usage. Since results of the placement test may determine future coursework, it is important to prepare well and take it seriously. Please see the SWIC website for additional tips for taking placement tests.

For more information about the Welding Technology program or the computerized placement test, contact an advisor at the Belleville Campus, 618-235-2700, ext. 5206; the Sam Wolf Granite City Campus, 618-931-0600, ext. 7333; or the Red Bud Campus, 618-282-6682, ext. 8114.



TUITION AND FINANCIAL AID

SWIC tuition and fees are subject to change at any time. For the current tuition rate, contact the SWIC Business office at 618-235-2700, ext. 5367 or visit swic.edu/business-office.

Information about student scholarships, grants, loans and employment is available from the Office of Financial Aid and Student Employment by calling 618-235-2700, ext. 5288 or visiting swic.edu/financial-aid. Workforce Investment and Opportunity Act funding also may be available to qualified students. For WIOA information, contact 618-235-2700, ext. 5466.

For details about scholarships available specifically to SWIC students, visit the SWIC Foundation website at swic.edu/foundation.

GRADUATION REQUIREMENTS

Students in the Welding certificate program receive 800 hours of lecture and laboratory instruction. Those who earn an Associate in Applied Science degree are

required to enroll in academic and Welding courses. Students must complete 70 semester credits to earn an Associate in Applied Science degree in Welding.

The program is divided into four semesters that full-time students can complete in two years.

Those earning the Welding Technology Certificate must complete 14 semester credits, 12 semester credits for the Welding Technology Advanced Certificate, 10 semester credits each for the Welding Technology Specialized Certificate and the Advanced Welding Technology Certificate.

Day students will complete this program in nine months; part-time night students will complete it in two years.

Hands-on work will be graded pass/fail on the basis of code standards. Lecture work will be graded on the college grading system.