JALC
www.jalc.edu

Associate in Applied Science
Toward a Degree in
Welding Technology

Career Curriculum WEL2010
Minimum Hours: 62
Major Code: 1.2 480508
Effective Date: Fall 2025

FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	
MAT	113	OR MAT 100 Mathematics for Applied Technologies OR BUS 111	3	
WEL	115	Metallurgy	2	
WEL	120	OXYFUEL Welding, Cutting & Brazing	3	
WEL	121	SMAW (STICK) Plate Welding I	3	
WEL	122	GMAW(MIG) Plate Welding	3	
			15	

FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ENG	101	English Composition I[1] OR ENG 113 Professional Technical Writing[1]	3	
MAC	180	Blueprint Reading	3	
WEL	123	SMAW(STICK) Plate Welding II	3	
WEL	124	GTAW(TIG) Plate Welding I	3	
WEL	125	Weld Testing and Inspection	3	
CMG	112	Construction OHSA 30 Safety for Applied Tech	2	
			17	

SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
WEL	130	GMAW (MIG) Plate Welding II	3	
COM	115	Speech OR COM 116 Interpersonal Communications	3	
CMG	218	CADD for Applied Technology	3	
WEL	126	SMAW(STICK) Welding III	3	
WEL	127	Welding & Metal Fabrication	3	
			15	

SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CMG 107 Construction Document Interpretation			3	
IAI Physical/Life Science OR IAI Humanities/ Fine Arts Elective			3-5	
IAI Social and Behavioral Science Elective			3	
WEL	128	Pipe Welding	3	
WEL	129	GTAW(TIG) Welding II	3	
			15-17	

NOTES AND INFORMATION

Fall Only Courses:
WEL 115 WEL 126
WEL 120 WEL 127
WEL 121 WEL 130
WEL 122

Spring Only Courses:
MAC 180 WEL 125
WEL 123 WEL 128
WEL 124 WEL 129

[1] Requires a grade of "C" or higher.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

Career Opportunities: Upon successful completion of the AAS degree, the student will have the opportunity to enter the workforce as a welding technician. The program will prepare graduates for entry into union trades positions including boilermakers, plumbers & pipefitters, structural steel workers, rail car repair and general maintenance; small and medium job shops.

JALC Welding Program is an educational member of:

American Welding Society
8669 NW 36 Street
Suite 130
Doral, FL 33166

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.