

Associate in Applied Science (AAS)

Welding

Prepare for the state commercial welding examination or qualify for welding jobs in manufacturing, maintenance, or instruction through LCC's welding program. Students must successfully complete the Washington Association of Building Officials (WABO) Qualification Test before earning a degree in Welding.

Degree Requirements

- **Communications:**
5 credits – ENGL 110 Industrial Communications recommended.
- **Quantitative / Symbolic Reasoning Skills:**
5 credits – MATH 106 Industrial Mathematics recommended.
- **Human Relations / Social Science / Diversity:**
5 credits – BUS 144 Management of Human Relations:DIV meets all three requirements and is recommended.
- **Humanities / Natural Science:**
5 credits – DHET 240 Fluid Power/Electrical Theory & Design OR TECH 100 Advanced Principles of Technology OR MFG 130 Materials Science OR choose from the Distribution List.

Program Requirements

BLPT 160	Blueprint Reading for Welders	5
CS 110	Intro to Microcomputer Applications	3
HLTH 105	First Aid, CPR and Bloodborne Pathogens	1
MFG 100	Foundational Skills for the Trades	3
MFG 105	Industrial Safety	3
WELD 125	OFW-A - Oxy/Acetylene Welding with RG45	6
WELD 131	SMAW - Stick Welding with E7018	10
WELD 132	SMAW - Stick Welding with E6010	10
WELD 133	Advanced SMAW and Other Stick Welding Electrodes - WABO	10
WELD 158	Welding Theory and Fabrication	5
WELD 241	FCAW-G - Dual Shield Wire Feed Welding w/ E71T-1	10
WELD 242	Advanced FCAW-G & Other Wire Feed Welding Processes - WABO	6
WELD 255	GTAW - Tig Welding with ER70S-6 and other Electrode/Rods	6-10
WELD 070/075	Welding Certification (WABO)	0

Diversity and Distribution Lists are available in the Lower Columbia College Academic Catalog and at lowercolumbia.edu/catalog.

Total credits required to earn this degree: minimum 98 with a cumulative grade point average (GPA) of at least 2.0 in the program requirements.

Students completing this program should acquire the following skills and abilities:

- Communicate professionally in writing and speaking as appropriate to an industrial technology work environment. (GS Communication)

- Apply objective, valid methods of inquiry and problem solving to draw rational, ethical, and coherent conclusions. (GS Critical Thinking)
- Apply mathematical information to perform tasks in industrial technology. (GS Numeracy/Quantitative Literacy)
- Interact effectively with individuals and groups. (GS Interpersonal Relations)
- Display work appropriate behavior including positive attitude, timeliness, and teamwork.
- Apply industry standard safety and hazardous material handling guidelines.
- Apply knowledge of computer programs to create professional, academic, or business documents following current industry standards.
- Safely operate equipment and tools used in welding, cutting, and fabricating.
- Demonstrate competency in advanced level welding and cutting processes.
- Perform welding activities following written and verbal instructions.
- Demonstrate competency interpreting prints, drawings, and symbols for welding and fabricating.
- Communicate work performed using trade specific language.
- Complete tasks accurately, safely, and within a given timeframe.

Revised May 2019 (Effective Summer 2019)

Planner

The distribution lists are in the LCC Catalog. If you are online, click on the links below:

Diversity Course List

Distribution List

Advisors:

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Fall Quarter		Winter Quarter		Spring Quarter		Summer Quarter	
✓	Courses Crs	✓	Courses Crs	✓	Courses Crs	✓	Courses Crs
	MATH 106 (A) 5		BUS 144 (A) 5		CS 110 (A) 3		
	MFG 100 (A) 3		MFG 105 (A) 3		ENGL 110 (F, Sp) 5		
	WELD 125 (A) 6		WELD 131 (A) 10		WELD 132 (A) 10		
	Total: 14		Total: 18		Total: 18		Total:

Fall Quarter		Winter Quarter		Spring Quarter		Summer Quarter	
✓	Courses Crs	✓	Courses Crs	✓	Courses Crs	✓	Courses Crs
	MFG 130 (F) 5		BLPT 160 (W) 5		WELD 158 (Sp) 5		
	WELD 133 (A) 10		HLTH 105 (A) 1		WELD 242 (A) 6		

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
				WELD 241 (A)	10		WELD 255 (A)	6-10			
							WELD 070 or 075 (A)	0			
Total:		15	Total:		16	Total:		17-21	Total:		

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Notes:

Program planning is based on information available at the time of preparation. It is the student's responsibility to meet with their LCC advisor. Consult the LCC catalog for LCC graduation requirements.

6-credits of WELD 105 is the equivalent: 2-credits of WELD 125, 2-credits of WELD 131, and 2-credits of WELD 241.

Legend:

- A - Course usually offered all quarters.
- F - Course usually offered Fall Quarter.
- W - Course usually offered Winter Quarter.
- Sp - Course usually offered Spring Quarter.
- S - Course usually offered Summer Quarter.

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