

## Associate in Applied Science - Transfer (AAS-T)

# Welding

## for LCC BAS-OLTM

The Welding AAS-T degree prepares students for the state commercial welding examination or welding jobs in manufacturing, maintenance, or fabrication. Students must successfully complete the Washington Association of Building Officials (WABO) Qualification Test before earning a degree in Welding. This program also meets the academic requirements to apply for admittance into Lower Columbia's Bachelor of Applied Science degree in Organizational Leadership and Technical Management (BAS-OLTM) which prepares industry professionals for positions in leadership, management and supervision.

### Degree Requirements

- **Communications:**  
5 credits – ENGL& 101 English Composition I
- **Quantitative Skills:**  
5 credits – MATH& 107 Math in Society or higher (excluding MATH& 131)
- **Natural Sciences:**  
5 credits – Natural Science with lab from the Distribution List
- **Diversity / Human Relations:**  
5 credits – BUS 144 Management of Human Relations: DIV

### Program Requirements

BLPT 160	Blueprint Reading for Welders	5
COLL 289	Employment Portfolio Seminar	1
CS 110	Introduction to Microcomputer Applications	3
HLTH 105	First Aid, CPR and Bloodborne Pathogens	1
MFG 105	Industrial Safety	3
MASP 107	Machining for Related Occupations	6
WELD 141	SMAW - Stick Welding with E7018	10
WELD 142	Advanced SMAW - WABO	10
WELD 143	SMAW - Stick Welding with E6010	10

WELD 158	Welding Theory and Fabrication	5
WELD 241	FCAW-G - Dual Shield Wire Feed Welding with E71T-1	10
WELD 242	Advanced FCAW-G - WABO	6
WELD 243	GMAW - Solid Wire Feed Welding with ER70S-6 and ER5356	6
WELD 255	GTAW - Tig Welding with ER70S-6 and ER5356	6-10
WELD 288	Cooperative Work Experience	2
WELD 70/75	Welding Certification (WABO)	0

WELD 288 may be substituted for 2 credits of WELD 299 Independent Study or any Elective with program advisor permission.

**Diversity and Distribution Lists ( [lowercolumbia.edu/publications/catalog/distribution-lists](http://lowercolumbia.edu/publications/catalog/distribution-lists) )** are available in the Lower Columbia College Catalog located at [lowercolumbia.edu/catalog](http://lowercolumbia.edu/catalog).

*Total credits required to earn this degree: minimum 104-108 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 2023 (Effective Summer 2023)***

### **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.