

WELDING TECHNOLOGY ACADEMIC CURRICULUM MAP

An academic map is a suggested two-year schedule of courses based on degree requirements. This sample schedule serves as a general guideline to help build a full schedule each term. Milestones, courses, and special requirements necessary for timely progress to complete a major are designated to keep you on track to graduate in two years.

This map is not a substitute for academic advisement—contact your advisor if you have any questions about scheduling or about your degree requirements. Also see the current academic catalog for a complete list of requirements and electives. Note: Requirements are continually under revision, and there is no guarantee they will not be changed or revoked; contact an advisor, the department and/or program area for current information.

First Year					
First Semester			Second Semester		
Course	Credit Hours	Notes	Course	Credit Hours	Notes
English 010 ENGL 101 or ENGL 103	3		English 010 ENGL 102	3	
Communication 020	3		Arts & Humanities 060	3	
INDU 155 OSHA Safety 10	1		Social and Behavior Science 050	3	
WELD 120 Oxy Acetylene and Safety	3		WELD 160 Gas Metal Arc Welding	3	
WELD 130 Gas Tungsten Arc Welding	3		WELD 180 Pipe Layout and Blueprint Reading	3	
WELD 140 Shielded Metal Arc Welding	3				
Total Hours	16		Total Hours	15	
Second Year					
First Semester			Second Semester		
Course	Credit Hours	Notes	Course	Credit Hours	Notes
Arts & Humanities 060	3		Personal & Professional Behavior 070	3	
Personal & Professional Behavior 070	3		INDU 131 Engineering Graphics or INDU 210 Computer Aided Drafting/Design	3	
Math & Statistics 030	3		WELD 220 Adv. Gas Metal Arc Welding	4	
WELD 210 Adv. Gas Tungsten Arc Welding	4		WELD 260 Specialized Welding	4	
WELD 240 Adv. Shielded and Metal Arc Welding	4				
Total Hours	17		Total Hours	14	

You may choose to attend a summer term to reduce your load during fall or spring terms but still stay on track to graduate in two years. NOTE: Learning Support courses will alter the sequences on this map.

Systemwide General Education Key:

010 English 020 Communication 030 Math & Statistics 040 Natural & Physical Sciences
050 Social & Behavioral Sciences 060 Arts & Humanities 070 Personal & Professional Behavior

General Electives can be found on page 53
Statewide General Education Requirements can be found on page 56

WELDING TECHNOLOGY

ASSOCIATE IN APPLIED SCIENCE

Labette Community College's Welding Technology program is in alignment with the National Center for Education Statistics (NCES) CIP Code 48.0508: Welding Technology/Welder. A program that prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

The Welding Technology program allows students the opportunity to complete certificates at two levels and to transfer these certificates toward an Associate of Applied Science degree in Welding. The Level I Welding certificate is for students who intend to seek entry-level employment after completing a one-year program of study. The Level II certificate is for students interested in advancing their skill level beyond Level I. Students interested in completing an Associate of Applied Science degree in Welding should visit with an advisor to determine general education and additional technical education requirements.

Credits Required: 62

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Recommended Course Sequence

SEM 1: INDU 131 or INDU 210, INDU 155, WELD 120, WELD 130, WELD 140,
SEM 2: WELD 160, WELD 180
SEM 3: WELD 210, WELD 220
SEM 4: WELD 240, WELD 260

After Graduation

Career areas in welding include welding, cutting, soldering, and brazing in the construction, manufacturing and utilities industries. Specific job titles include welding technician, supervisors, inspectors, instructors, and shop owners. The job outlook for welders in the construction, manufacturing, and utilities industries is increasing. Median earnings are \$15.10/hour.

<u>Concentration Requirements</u>			<u>35</u>
<input type="checkbox"/>	INDU 131	Engineering Graphics	or
	INDU 210	Computer Aided Drafting/Design	3
<input type="checkbox"/>	INDU 155	OSHA Safety 10	1
<input type="checkbox"/>	WELD 120	Oxy Acetylene and Safety	3
<input type="checkbox"/>	WELD 130	Gas Tungsten Arc Welding	3
<input type="checkbox"/>	WELD 140	Shielded Metal Arc Welding	3
<input type="checkbox"/>	WELD 160	Gas Metal Arc Welding	3
<input type="checkbox"/>	WELD 180	Pipe Layout and Blueprint Reading	3
<input type="checkbox"/>	WELD 210	Adv. Gas Tungsten Arc Welding	4
<input type="checkbox"/>	WELD 220	Adv. Gas Metal Arc Welding	4
<input type="checkbox"/>	WELD 240	Adv. Shielded and Metal Arc Welding	4
<input type="checkbox"/>	WELD 260	Specialized Welding	4
 <u>General Education Requirement</u>			 <u>27</u>
English			
<input type="checkbox"/>	ENGL 101	English Composition I	or
	ENGL 103	English Composition I with Review	3
<input type="checkbox"/>	ENGL 102	English Composition II	3
Communication			
Choose one class			
<input type="checkbox"/>	_____		3
Math & Statistics			
<input type="checkbox"/>	_____		3
Social & Behavioral Sciences			
Choose one class			
<input type="checkbox"/>	_____		3
Arts & Humanities			
Choose two classes from different subject areas			
<input type="checkbox"/>	_____		3
<input type="checkbox"/>	_____		3
Personal & Professional Behavior			
Choose two classes			
<input type="checkbox"/>	_____		3
<input type="checkbox"/>	_____		3

General Electives can be found on page 53
 Statewide General Education Requirements can be found on page 56