

AS Welding - Sample Pathway

Welding touches every aspect of our modern life from the shoes we wear to the food we eat. The Welder or Welding Technician is concerned with all of the activities related to the manufacturing, production, performance, and maintenance of welded products. Interest is primarily in the manufactured or fabricated product, including process selection, power sources, base and filler materials, manufacturing methods, hands-on skills training, inspection, quality control, performance evaluation, and equipment service. The broad range of welded products with which welders and welding technicians deal includes structures, such as bridges, buildings, utility equipment, wind turbines, and communication towers; pressure vessels and heat exchangers, such as nuclear systems, boilers, solar thermal systems, oil and natural gas exploration, chemical processing equipment, storage vessels, and transmission and distribution piping; transportation vehicles for water, land, air, and space travel; and production and processing machines of all types. Completion of the certificate/AS degree requirements prepares students to take certification tests in a workplace environment. This sample pathway does not replace a meeting with a counselor to determine the correct path or set courses. Pathways are subject to change.

SEMESTER 1 - FALL

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
WLDT 61A (Beginning Arc, Flux-Core Welding, and Blueprint Reading Theory)	1	WLDT 61AL or WLDT 61BL (Co-Requisite)	Fall
WLDT 61AL (Beginning Arc, Flux-Core Welding Skills)	2	WLDT 61A or WLDT 61B (Co-Requisite)	Fall & Spring
WLDT 62A (Beginning TIG, MIG Welding and Blueprint Reading Theory)	1	WLDT 62AL or WLDT 62BL (Co-Requisite)	Fall
WLDT 62AL (Beginning TIG, MIG Welding and Blueprint Reading Skills)	2	WLDT 62A or WLDT 62B (Co-Requisite)	Fall & Spring
INDT 61 (Manufacturing Processes)	2		TBA
INDT 74 (Measurements and Calculations) OR	3		TBA
MATH 71 (Applied Mathematics for Technicians)		TBA	
General Education Course (Kinesiology)	1		Fall, Spring & Summer
SEMESTER TOTAL	12		

SEMESTER 2 - SPRING

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
ENG 1A (Critical Reading and Composition)	3	ENG 104 or ENG 105 with a "Pass" or ESL 25 or equiv course or appropriate skill level demonstrated through the Eng assessment process (Pre-Requisite)	Fall, Spring & Summer
WLDT 61B (Advanced Stick, Flux-Core Welding, and Blueprint Reading Theory)	1	WLDT 61A (Pre-Requisite) and WLDT 61AL or WLDT 61BL (Co-Requisite)	Spring
WLDT 61BL (Advanced Stick, Flux-Core and Blueprint Reading Skills)	2	WLDT 61AL (Pre-Requisite) and WLDT 61A or WLDT 61B (Co-Requisite)	Fall & Spring
WLDT 62B (Advanced TIG, MIG Welding and Blueprint Reading Theory)	1	WLDT 62AL or WLDT 62BL (Co-Requisite)	Spring
WLDT 62BL (Advanced TIG, MIG Welding and Blueprint Reading Skills)	2	WLDT 62AL (Pre-Requisite) and WLDT 62A or WLDT 62B (Co-Requisite)	Fall & Spring
WLDT 67A (Welding Skills Laboratory)	2	WLDT 61AL (Pre-Requisite)	Fall & Spring
DNST 55 (Blueprint Reading and Sketching)	2		TBA
SEMESTER TOTAL	13		

SEMESTER 3 - SUMMER

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
SPCH 1 (Fundamentals of Public Speaking)	3	Eligibility for ENG 1A (Strongly Recommended)	Fall, Spring & Summer
General Education Course (Social and Behavioral Science)	3		Fall, Spring & Summer
SEMESTER TOTAL	6		

SEMESTER 4 - FALL

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
WLDT 67B (Advanced Welding Skills Laboratory)	2	WLDT 67A (Pre-Requisite)	Fall & Spring
WLDT 69A (Fabrication and Installing Piping Systems)	3	WLDT 61BL or WLDT 62BL (Pre-Requisite)	Fall & Spring
MATH 55 (Intermediate Algebra)	5	MATH 65 or MATH 65B (Pre-Requisite)	Fall, Spring & Summer
General Education Course (Humanities and American Cultures)	3		Fall, Spring & Summer
SEMESTER TOTAL	13		

SEMESTER 5 - SPRING

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
WLDT 66 (Welding Inspection and Testing)	2	WLDT 62 BL (Pre-Requisite)	Spring
WLDT 63 (Welding Layout and Fitting)	2	WLDT 62BL (Pre-Requisite)	Spring
WLDT 69B (Advanced Pipe Welding)	3	WLDT 69A (Pre-Requisite)	Fall & Spring
General Education Course (Natural Science)	3		Fall, Spring & Summer
Elective Course (AA-Degree Applicable)	3		Fall, Spring & Summer
Elective Course (AA-Degree Applicable)	3		Fall, Spring & Summer
SEMESTER TOTAL	16		
Total Major Coursework	34		
Total Units Required (Minimum)	60		

NOTE: Completion of LPC's General Education Pattern for Associate in Science Degree is required.

NOTE: The AS Degree in Welding at LPC is NOT intended for students seeking transfer.

Last Updated: 03/15/2017