



## Welding Technology

curriculum code: 1643 | HEGIS code: 5308

minimum credit hours required: 61

This degree program is for students desiring employment in the expanding field of welding and welding technology engineering. Graduates will have the opportunity to pursue careers such as welding technician, welding supervisor, inspector, and sales engineer, qualifying for technician level positions involved in testing and improving welding processes, procedures, and equipment. Graduates also have the option of transferring to four-year institutions offering a bachelor's degree in welding engineering technology.

REQUIRED COURSES	CR	JCC	SUNY	LAS
INT 1555: Inquire	2	Inquiry- Critical & Integrative Reasoning		X
ENG 1510: English Composition I	3	College Composition	HUMN	H
ENG 1530: English Composition II	3	College Comp & Oral Communication	COMW & COMO	H
MAT 1590: College Algebra/Trigonometry (or higher)	4	SUNY Mathematics & Quantitative Reasoning	MATH	N
CHE 1500: Introduction to Chemistry	3	SUNY Natural Science & Scientific Reasoning	NSCI	N
Social Sciences Elective - SUNY Gen Ed	3	SUNY Social Science	SOSC	S
WLD 2450: Capstone Project	2	Applied Learning		
MCT 1240: Engineering Drawing with AutoCAD	4			
PHY 1500: Foundational Physics	4		NSCI	N
WLD 1200: Safety and Cutting Processes	3			
WLD 1350: Shielded Metal Arc Welding	3			
WLD 1360: Gas Metal Arc Welding	3			
WLD 1370: Gas Tungsten Arc Welding	3			
WLD 2250: Advanced SMAW	3			
WLD 2260: Advanced GMAW	3			
WLD 2270: Advanced GTAW	3			
WLD 2350: Fabrication	3			
WLD 2360: Alternate Processes	3			
WLD 2370: Metallurgy	3			
Open Electives up to 3 credits may need to be SUNY Gen ed- category specific and may need to fill JCC Essentials Global Perspective, Cultural Understanding, and Diversity requirements.	3	(Cultural Understanding; Global Perspectives, Diversity)	(DIVE)	
<b>TOTAL CREDITS: 61</b>			20	24

**IMPORTANT POINTS:**

- To complete the program in two years, students must begin in a fall semester.
- With the appropriate background, students may elect to take MAT 1600 or MAT 1710; PHY 1610 and PHY 1620; or PHY 1710 and PHY 2710; or CHE 1550 as Mathematics and Sciences courses. Student should discuss course selection with their advisor.