



Welding Technology

Two-Year Academy



Who We Are:

The Welding Academy prepares students for rewarding careers in metal fabrication, with a strong emphasis on welding techniques. Students gain hands-on experience while mastering a combination of craftsmanship, creativity, and technical expertise. The program builds confidence, problem-solving skills, and professional pride, giving students the foundation to succeed in high-demand skilled trades.

What We Do:

- Partner with educational and industrial institutions for advanced learning and employment opportunities
- Integrate skills needed in the work place into classroom and laboratory instruction
- AWS SENSE Entry Level Welder I Certification Program
- Classroom and Hands-on training of the various metal fabrication processes
- Certification attainable upon successful completion of rigorous testing both written and hands-on
- Will have the opportunity to earn College Now credit from Johnson County Community College



Electronic file located in Xello - "Course Planner"
 Located at OPS Innovation Campus | X: @OlathePathways
 Learn more: olatheschools.org/careerpathways



Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	POTENTIAL CAREERS
English (x4 credits)	English 9 <i>OR</i> Honors English 9	1	English 10 <i>OR</i> Honors English 10	1	English 11 <i>OR</i> AP English Language	1	English 12 <i>OR</i> College Prep English <i>OR</i> AP English Literature	1	Construction Welder Manufacturing Welder
Math (x3 credits)	Must take 1.0 math 9th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 10th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 11th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 12th gr year as recommended by facilitator & math teacher	1	Sheet Metal Welder Boilermaker
Science (x3 credits) (1 Life; 1 Physical; 1 Elective)	Biology <i>OR</i> Honors Biology	1	Chemistry <i>OR</i> Honors Chemistry	1	AP <i>OR</i> College Chemistry AP <i>OR</i> College Biology Physics <i>OR</i> AP/College Physics I/II AP Environmental Science	1	AP <i>OR</i> College Chemistry AP <i>OR</i> College Biology Physics <i>OR</i> AP/College Physics I/II AP Environmental Science	1	Industrial Maintenance Welder Pipe Welder/Pipefitter
Social Studies (x3 credits) (1 World; 1 US; 0.5 Govt; 0.5 elective)	World History <i>OR</i> Honors World History	1	Highly recommended: World Geography <i>OR</i> Honors World Geography	.5	US History <i>OR</i> AP US History	1	US Govt <i>OR</i> AP US Govt	.5	Structural Welder (Ironworker)
Communications (0.5 credit)	Student choice - any year(s) (.5)								Aerospace Welder
Financial Literacy: (0.5 credit)	Financial Literacy - can be taken any year grades 10-12 (.5)								Welding Inspector
Fine/Performing Arts (1 credit)	Student choice - any year(s) (1.0)								Welding Engineer
Health: (0.5 credit)	Health Education - can be taken in grade 9 or 10 Optional: Health may be taken online through eAcademy if space is needed in student's schedule.			.5					Welding Instructor
Language Applications: (1.0 credit)	Using the PPG - Identify courses that fulfill this requirement (1.0)								Sales Representative
Life Studies: (0.5 credit)	Using the PPG - Identify courses that fulfill this requirement (.5)								
Physical Education (0.5 credit)	PE Concepts <i>OR</i> Cheer/Dance <i>OR</i> Strength & Conditioning Optional: P.E. Concepts may be taken online through eAcademy if space is needed in student's schedule. This can be scheduled during the summer - grades 10-12 only. Other online classes are available at eacademy.olatheschools.com								Y 13 / Y 14
STEM (1.0 credit)	Students fulfill STEM graduation requirement through Two-Year Academy Courses (1.0)								
Individual Focus (5.5 credits) Two-Year Academy Coursework					Hand & Power Tools Production Print Reading I Welding Processes I & II	3	Production Print Reading II Production Methods I Work Experience in Welding I & II	3	
Total Credits: (24 total needed for graduation)	9th grade total:	7	10th grade total:	7	11th grade total:	7	12th grade total:	3+	

NOTE: Credits beyond requirements in any category will fall under individual focus.