

KELLOGG COMMUNITY COLLEGE
INDUSTRIAL WELDING
COURSE OPTIONS

FALL 2023

Certificate: 25 credits

Associate in Applied Science: 60 credits (combination of industrial welding, technical electives, and general education credit requirements)

All costs are subject to change without notice. Please call 269-965-4137 to verify.

Module Subject Code and Number	Module Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
<input type="checkbox"/> INWE C910-2201	WELDING ORIENTATION The orientation must be completed at the EAC in Albion prior to registration. Please call 517-630-8169 to verify available orientation times.		2	0.00	0.00	0.00
UNIT 05 BASICS OF WELDING						
<input type="checkbox"/> INWE 05010-2201	WELDING SHOP SAFETY RULES	0.17	4	4.00	45.82	49.82
<input type="checkbox"/> INWE 05020-2201	JOINTS WELDS POSITIONS	0.13	3	9.00	35.04	44.04
<input type="checkbox"/> INWE 05030-2201	RULES AND SQUARES	0.13	3	9.00	35.04	44.04
UNIT TOTAL		0.43	10	22.00	115.90	137.90
UNIT 10 OXYACETYLENE WELDING						
<input type="checkbox"/> INWE 10010-2201	OXY-FUEL WELDING TERMS	0.17	4	9.00	45.82	54.82
<input type="checkbox"/> INWE 10020-2201	SET UP OXY-FUEL WELD STAT	0.08	2	9.00	21.56	30.56
<input type="checkbox"/> INWE 10030-2201	RUN BEADS W/WO FILL	0.29	7	28.00	78.16	106.16
<input type="checkbox"/> INWE 10040-2201	WELD JOINTS FLAT POSITION	1.00	24	45.00	269.50	314.50
UNIT TOTAL		1.54	37	91.00	415.04	506.04
UNIT 15 CUTTING PROCESSES						
<input type="checkbox"/> INWE 15010-2201	BASIC CUTTING PRACTICES	0.13	3	9.00	35.04	44.04
<input type="checkbox"/> INWE 15020-2201	CUT FERROUS MET W OXY FUEL	0.33	8	31.00	88.94	119.94
<input type="checkbox"/> INWE 15030-2201	CUTTING METALS W PLASMA	0.33	8	33.00	88.94	121.94
UNIT TOTAL		0.79	19	73.00	212.92	285.92
UNIT 20 BRAZING AND SOLDERING						
<input type="checkbox"/> INWE 20010-2201	BRAZ JOINTS FLAT POSITION	0.33	8	41.00	88.94	129.94
<input type="checkbox"/> INWE 20020-2201	BRAZ V-GROOVE JOINTS	0.21	5	34.00	56.60	90.60
<input type="checkbox"/> INWE 20030-2201	SILVER BRAZ DISSIMILAR METALS	0.13	3	35.00	35.04	70.04
<input type="checkbox"/> INWE 20040-2201	LEAD SOLDERING SEAMS	0.25	6	35.00	67.38	102.38
UNIT TOTAL		0.92	22	145.00	247.96	392.96
UNIT 25 SHIELDED METAL ARC WELDING						
<input type="checkbox"/> INWE 25010-2201	SMAW TERMS DEFINITIONS	0.17	4	9.00	45.82	54.82
<input type="checkbox"/> INWE 25020-2201	ELECTRODES FOR SMAW	0.21	5	14.00	56.60	70.60
<input type="checkbox"/> INWE 25030-2201	STRIKE ARC RUN BEADS	0.67	16	45.00	180.57	225.57
<input type="checkbox"/> INWE 25040-2201	ANALYZE WELD CHARACTERISTICS	0.13	3	9.00	35.04	44.04
<input type="checkbox"/> INWE 25050-2201	MULTIPASS FILLET WELDS	0.50	12	45.00	134.75	179.75
<input type="checkbox"/> INWE 25060-2201	WELD SIZE WEAVE TECHNIQUE	0.50	12	29.00	134.75	163.75
<input type="checkbox"/> INWE 25070-2201	CORNER JOINT FLAT POSITION	0.67	16	29.00	180.57	209.57
<input type="checkbox"/> INWE 25080-2201	V-GROOVE BUTT W BACKING	0.50	12	64.00	134.75	198.75
<input type="checkbox"/> INWE 25090-2201	V-GROOVE BUTT WO BACKING	0.67	16	63.00	180.57	243.57
UNIT TOTAL		4.02	96	307.00	1,083.42	1,390.42
UNIT 30 ADVANCED ARC WELDING						
<input type="checkbox"/> INWE 30010-2201	TEE JOINTS VERTICAL UP	0.58	14	45.00	156.31	201.31
<input type="checkbox"/> INWE 30020-2201	BUTT W BACK VERTICAL UP	0.46	11	64.00	123.97	187.97
<input type="checkbox"/> INWE 30030-2201	BUTT WO BACK VERTICAL UP	0.75	18	63.00	202.13	265.13
<input type="checkbox"/> INWE 30040-2201	TEE JOINTS VERTICAL DOWN	0.29	7	29.00	78.16	107.16
<input type="checkbox"/> INWE 30050-2201	BUTT W BACK VERTICAL DOWN	0.42	10	64.00	113.19	177.19
<input type="checkbox"/> INWE 30060-2201	BUT WO BACK VERTICAL DOWN	0.33	8	63.00	88.94	151.94

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UNIT 30 ADVANCED ARC WELDING (CONTINUED)						
<input type="checkbox"/> INWE 30070-2201	BUTT W BACK HORIZONTAL	0.50	12	64.00	134.75	198.75
<input type="checkbox"/> INWE 30080-2201	BUTT WO BACK HORIZONTAL	0.50	12	63.00	134.75	197.75
<input type="checkbox"/> INWE 30090-2201	TEE JOINTS OVERHEAD	0.50	12	29.00	134.75	163.75
<input type="checkbox"/> INWE 30100-2201	BUTT W BACK OVERHEAD	0.58	14	64.00	156.31	220.31
<input type="checkbox"/> INWE 30110-2201	BUTT WO BACK OVERHEAD	0.83	20	63.00	223.69	286.69
UNIT TOTAL		5.74	138	611.00	1,546.95	2,157.95
<input type="checkbox"/> *INWE C410-2201	SMAW CERTIFICATION		6	250.00	0.00	250.00
UNIT 35 WELDING METALLURGY						
<input type="checkbox"/> INWE 35010-2201	INTRO TO METALLURGY	0.46	11	9.00	123.97	132.97
<input type="checkbox"/> INWE 35020-2201	EXAMINE IDENTIFY METALS	0.13	3	14.00	35.04	49.04
<input type="checkbox"/> INWE 35030-2201	METALLURGY FUND CAST IRON	0.13	3	9.00	35.04	44.04
<input type="checkbox"/> INWE 35040-2201	METALLURGY FUND STAINLESS	0.13	3	9.00	35.04	44.04
<input type="checkbox"/> INWE 35050-2201	TESTING METALS	0.42	10	9.00	113.19	122.19
UNIT TOTAL		1.27	30	50.00	342.28	392.28
UNIT 40 GAS METAL ARC WELDING						
<input type="checkbox"/> INWE 40010-2201	EXPLAINING GMAW	0.29	7	34.00	78.16	112.16
<input type="checkbox"/> INWE 40020-2201	START ARC RUN BEADS GMAW	0.17	4	29.00	45.82	74.82
<input type="checkbox"/> INWE 40030-2201	GMAW FCAW WELD ALL POSITIONS	1.67	40	93.00	450.07	543.07
<input type="checkbox"/> INWE 40040-2201	GMAW OF ALUMINUM	0.67	16	73.00	180.57	253.57
UNIT TOTAL		2.80	67	229.00	754.62	983.62
<input type="checkbox"/> *INWE C420-2201	GMAW CERTIFICATION		6	270.00	0.00	270.00
UNIT 45 GAS TUNGSTEN ARC WELDING						
<input type="checkbox"/> INWE 45010-2201	EXPLAINING GTAW	0.42	10	30.00	113.19	143.19
<input type="checkbox"/> INWE 45020-2201	START ARC RUN BEADS GTAW	0.42	10	29.00	113.19	142.19
<input type="checkbox"/> INWE 45030-2201	GTAW ALUMINUM FLAT POSITION	1.25	30	73.00	336.88	409.88
<input type="checkbox"/> INWE 45040-2201	BASIC JOINTS STAINLESS	1.25	30	57.00	336.88	393.88
<input type="checkbox"/> INWE 45050-2201	GTAW ALUMINUM OUT POSITION	1.67	40	83.00	450.07	533.07
UNIT TOTAL		5.01	120	272.00	1,350.21	1,622.21
<input type="checkbox"/> *INWE C430-2201	GTAW CERTIFICATION		8	364.00	0.00	364.00
UNIT 50 PIPE WELDING						
<input type="checkbox"/> INWE 50010-2201	IDENTIFYING PIPE WELDING	0.21	5	14.00	56.60	70.60
<input type="checkbox"/> INWE 50020-2201	2G FIXED POSITION	0.83	20	71.00	223.69	294.69
<input type="checkbox"/> INWE 50030-2201	5G FIXED VERTICAL UP	1.25	30	66.00	336.88	402.88
<input type="checkbox"/> INWE 50040-2201	5G FIXED VERTICAL DOWN	1.04	25	71.00	280.28	351.28
<input type="checkbox"/> INWE 50050-2201	6G FIXED POSITION	1.04	25	73.00	280.28	353.28
UNIT TOTAL		4.37	105	295.00	1,177.73	1,472.73
UNIT 55 SPECIAL APPLICATIONS						
<input type="checkbox"/> INWE 55010-2201	WELDING BLUEPRINT READING	0.17	4	9.00	45.82	54.82
<input type="checkbox"/> INWE 55020-2201	FABRICATING A PROJECT	0.50	12	60.00	134.75	194.75

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UNIT 55		SPECIAL APPLICATIONS (CONTINUED)				
<input type="checkbox"/> INWE 55030-2201	CAST IRON REPAIR	0.17	4	28.00	45.82	73.82
<input type="checkbox"/> INWE 55040-2201	HARDSURFACING	0.17	4	28.00	45.82	73.82
<input type="checkbox"/> INWE 55050-2201	TOOL AND DIE WELDING	0.67	16	53.00	180.57	233.57
UNIT TOTAL		1.68	40	178.00	452.78	630.78
TOTAL		28.57	718	3,157.00	7,699.81	10,856.81

SPECIAL PROJECT MODULES

(These modules cannot be articulated. Students must have instructor approval to register.)

<input type="checkbox"/> *INWE C710-2201	BASIC WELDING PROJECT		2	70.00	0.00	70.00
<input type="checkbox"/> *INWE C720-2201	INTERMEDIATE WELDING PROJECT		4	140.00	0.00	140.00
<input type="checkbox"/> *INWE C730-2201	ADVANCED WELDING PROJECT		6	210.00	0.00	210.00

*Module(s) cannot be paid for using certain types of financial aid. Please direct all inquiries to the staff at the EAC registration desk.

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____
 Total Credit _____ Total Contact _____ Total Cost _____