

KELLOGG COMMUNITY COLLEGE
INDUSTRIAL WELDING
COURSE OPTIONS

SPRING 2024

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
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
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
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
<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

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TOTAL		28.57	698	2,273.00	7,699.81	9,972.81

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 _____