

MODULES OFFERED AT THE REGIONAL MANUFACTURING TECHNOLOGY CENTER

**KELLOGG COMMUNITY COLLEGE**

**INDUSTRIAL WELDING**

**FALL 2021**

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

Please note: Some modules have online availability. Please ask for more information.

Module Subject Code and Number	Module Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
<input type="checkbox"/> INWE C910-7201	WELDING ORIENTATION		2	0.00	0.00	0.00

The orientation must be completed at the RMTC in Battle Creek prior to registration. Please call 269.965.4137 to verify available orientation times.

**UNIT 05 BASICS OF WELDING**

<input type="checkbox"/> INWE 05010-7201	WELDING SHOP SAFETY RULES	0.17	4	4.00	43.86	47.86
<input type="checkbox"/> INWE 05020-7201	JOINTS WELDS POSITIONS	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 05030-7201	RULES AND SQUARES	0.13	3	9.00	33.54	42.54
<b>UNIT TOTAL</b>		<b>0.43</b>	<b>10</b>	<b>22.00</b>	<b>110.94</b>	<b>132.94</b>

**UNIT 10 OXYACETYLENE WELDING**

<input type="checkbox"/> INWE 10010-7201	OXY-FUEL WELDING TERMS	0.17	4	9.00	43.86	52.86
<input type="checkbox"/> INWE 10020-7201	SET UP OXY-FUEL WELD STAT	0.08	2	9.00	20.64	29.64
<input type="checkbox"/> INWE 10030-7201	RUN BEADS W/WO FILL	0.29	7	28.00	74.82	102.82
<input type="checkbox"/> INWE 10040-7201	WELD JOINTS FLAT POSITION	1.00	24	45.00	258.00	303.00
<b>UNIT TOTAL</b>		<b>1.54</b>	<b>37</b>	<b>91.00</b>	<b>397.32</b>	<b>488.32</b>

**UNIT 15 CUTTING PROCESSES**

<input type="checkbox"/> INWE 15010-7201	BASIC CUTTING PRACTICES	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 15020-7201	CUT FERROUS MET W OXY FUEL	0.33	8	31.00	85.14	116.14
<input type="checkbox"/> INWE 15030-7201	CUTTING METALS W PLASMA	0.33	8	33.00	85.14	118.14
<b>UNIT TOTAL</b>		<b>0.79</b>	<b>19</b>	<b>73.00</b>	<b>203.82</b>	<b>276.82</b>

**UNIT 20 BRAZING AND SOLDERING**

<input type="checkbox"/> INWE 20010-7201	BRAZ JOINTS FLAT POSITION	0.33	8	41.00	85.14	126.14
<input type="checkbox"/> INWE 20020-7201	BRAZ V-GROOVE JOINTS	0.21	5	34.00	54.18	88.18
<input type="checkbox"/> INWE 20030-7201	SILVER BRAZ DISSIMILAR METALS	0.13	3	35.00	33.54	68.54
<input type="checkbox"/> INWE 20040-7201	LEAD SOLDERING SEAMS	0.25	6	35.00	64.50	99.50
<b>UNIT TOTAL</b>		<b>0.92</b>	<b>22</b>	<b>145.00</b>	<b>237.36</b>	<b>382.36</b>

**UNIT 25 SHIELDED METAL ARC WELDING**

<input type="checkbox"/> INWE 25010-7201	SMAW TERMS DEFINITIONS	0.17	4	9.00	43.86	52.86
<input type="checkbox"/> INWE 25020-7201	ELECTRODES FOR SMAW	0.21	5	14.00	54.18	68.18
<input type="checkbox"/> INWE 25030-7201	STRIKE ARC RUN BEADS	0.67	16	45.00	172.86	217.86
<input type="checkbox"/> INWE 25040-7201	ANALYZE WELD CHARACTERISTICS	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 25050-7201	MULTIPASS FILLET WELDS	0.50	12	45.00	129.00	174.00
<input type="checkbox"/> INWE 25060-7201	WELD SIZE WEAVE TECHNIQUE	0.50	12	29.00	129.00	158.00
<input type="checkbox"/> INWE 25070-7201	CORNER JOINT FLAT POSITION	0.67	16	29.00	172.86	201.86
<input type="checkbox"/> INWE 25080-7201	V-GROOVE BUTT W BACKING	0.50	12	64.00	129.00	193.00
<input type="checkbox"/> INWE 25090-7201	V-GROOVE BUTT WO BACKING	0.67	16	63.00	172.86	235.86
<b>UNIT TOTAL</b>		<b>4.02</b>	<b>96</b>	<b>307.00</b>	<b>1037.16</b>	<b>1344.16</b>

**UNIT 30 ADVANCED ARC WELDING**

<input type="checkbox"/> INWE 30010-7201	TEE JOINTS VERTICAL UP	0.58	14	45.00	149.64	194.64
<input type="checkbox"/> INWE 30020-7201	BUTT W BACK VERTICAL UP	0.46	11	64.00	118.68	182.68
<input type="checkbox"/> INWE 30030-7201	BUTT WO BACK VERTICAL UP	0.75	18	63.00	193.50	256.50

continued

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<b>UNIT 30      ADVANCED ARC WELDING (continued)</b>						
<input type="checkbox"/> INWE 30040-7201	TEE JOINTS VERTICAL DOWN	0.29	7	29.00	74.82	103.82
<input type="checkbox"/> INWE 30050-7201	BUTT W BACK VERTICAL DOWN	0.42	10	64.00	108.36	172.36
<input type="checkbox"/> INWE 30060-7201	BUT WO BACK VERTICAL DOWN	0.33	8	63.00	85.14	148.14
<input type="checkbox"/> INWE 30070-7201	BUTT W BACK HORIZONTAL	0.50	12	64.00	129.00	193.00
<input type="checkbox"/> INWE 30080-7201	BUTT WO BACK HORIZONTAL	0.50	12	63.00	129.00	192.00
<input type="checkbox"/> INWE 30090-7201	TEE JOINTS OVERHEAD	0.50	12	29.00	129.00	158.00
<input type="checkbox"/> INWE 30100-7201	BUTT W BACK OVERHEAD	0.58	14	64.00	149.64	213.64
<input type="checkbox"/> INWE 30110-7201	BUTT WO BACK OVERHEAD	0.83	20	63.00	214.14	277.14
<b>UNIT TOTAL</b>		<b>5.74</b>	<b>138</b>	<b>611.00</b>	<b>1480.92</b>	<b>2091.92</b>
<input type="checkbox"/> *INWE C410-7201	SMAW CERTIFICATION		6	250.00	0.00	250.00
<b>UNIT 35      WELDING METALLURGY</b>						
<input type="checkbox"/> INWE 35010-7201	INTRO TO METALLURGY	0.46	11	9.00	118.68	127.68
<input type="checkbox"/> INWE 35020-7201	EXAMINE IDENTIFY METALS	0.13	3	14.00	33.54	47.54
<input type="checkbox"/> INWE 35030-7201	METALLURGY FUND CAST IRON	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 35040-7201	METALLURGY FUND STAINLESS	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 35050-7201	TESTING METALS	0.42	10	9.00	108.36	117.36
<b>UNIT TOTAL</b>		<b>1.27</b>	<b>30</b>	<b>50.00</b>	<b>327.66</b>	<b>377.66</b>
<b>UNIT 40      GAS METAL ARC WELDING</b>						
<input type="checkbox"/> INWE 40010-7201	EXPLAINING GMAW	0.29	7	34.00	74.82	108.82
<input type="checkbox"/> INWE 40020-7201	START ARC RUN BEADS GMAW	0.17	4	29.00	43.86	72.86
<input type="checkbox"/> INWE 40030-7201	GMAW FCAW WELD ALL POSITIONS	1.67	40	93.00	430.86	523.86
<input type="checkbox"/> INWE 40040-7201	GMAW OF ALUMINUM	0.67	16	73.00	172.86	245.86
<b>UNIT TOTAL</b>		<b>2.80</b>	<b>67</b>	<b>229.00</b>	<b>722.40</b>	<b>951.40</b>
<input type="checkbox"/> *INWE C420-7201	GMAW CERTIFICATION		6	270.00	0.00	270.00
<b>UNIT 45      GAS TUNGSTEN ARC WELDING</b>						
<input type="checkbox"/> INWE 45010-7201	EXPLAINING GTAW	0.42	10	30.00	108.36	138.36
<input type="checkbox"/> INWE 45020-7201	START ARC RUN BEADS GTAW	0.42	10	29.00	108.36	137.36
<input type="checkbox"/> INWE 45030-7201	GTAW ALUMINUM FLAT POSITION	1.25	30	73.00	322.50	395.50
<input type="checkbox"/> INWE 45040-7201	BASIC JOINTS STAINLESS	1.25	30	57.00	322.50	379.50
<input type="checkbox"/> INWE 45050-7201	GTAW ALUMINUM OUT POSITION	1.67	40	83.00	430.86	513.86
<b>UNIT TOTAL</b>		<b>5.01</b>	<b>120</b>	<b>272.00</b>	<b>1292.58</b>	<b>1564.58</b>
<input type="checkbox"/> *INWE C430-7201	GTAW CERTIFICATION		8	364.00	0.00	364.00
<b>UNIT 50      PIPE WELDING</b>						
<input type="checkbox"/> INWE 50010-7201	IDENTIFYING PIPE WELDING	0.21	5	14.00	54.18	68.18
<input type="checkbox"/> INWE 50020-7201	2G FIXED POSITION	0.83	20	71.00	214.14	285.14
<input type="checkbox"/> INWE 50030-7201	5G FIXED VERTICAL UP	1.25	30	66.00	322.50	388.50
<input type="checkbox"/> INWE 50040-7201	5G FIXED VERTICAL DOWN	1.04	25	71.00	268.32	339.32

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<input type="checkbox"/> INWE 50050-7201	6G FIXED POSITION	1.04	25	73.00	268.32	341.32
<b>UNIT TOTAL</b>		<b>4.37</b>	<b>105</b>	<b>295.00</b>	<b>1127.46</b>	<b>1422.46</b>
<input type="checkbox"/> *INWE C440-7201	PIPE WELDING CERTIFICATION		12	440.00	0.00	440.00
<b>UNIT 55 SPECIAL APPLICATIONS</b>						
<input type="checkbox"/> INWE 55010-7201	WELDING BLUEPRINT READING	0.17	4	9.00	43.86	52.86
<input type="checkbox"/> INWE 55020-7201	FABRICATING A PROJECT	0.50	12	60.00	129.00	189.00
<input type="checkbox"/> INWE 55030-7201	CAST IRON REPAIR	0.17	4	28.00	43.86	71.86
<input type="checkbox"/> INWE 55040-7201	HARDSURFACING	0.17	4	28.00	43.86	71.86
<input type="checkbox"/> INWE 55050-7201	TOOL AND DIE WELDING	0.67	16	53.00	172.86	225.86
<b>UNIT TOTAL</b>		<b>1.68</b>	<b>40</b>	<b>178.00</b>	<b>433.44</b>	<b>611.44</b>
<b>PROGRAM TOTAL</b>		<b>28.57</b>	<b>730</b>	<b>4017.00</b>	<b>7371.06</b>	<b>11388.06</b>

**SPECIAL PROJECT MODULES**

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

<input type="checkbox"/> *INWE C710-7201	BASIC WELDING PROJECT		2	70.00	0.00	70.00
<input type="checkbox"/> *INWE C720-7201	INTERMEDIATE WELDING PROJECT		4	140.00	0.00	140.00
<input type="checkbox"/> *INWE C730-7201	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 RMTC registration desk.

**FOR OFFICE USE ONLY**

Instructor Approval \_\_\_\_\_ Date \_\_\_\_\_

Total Credit \_\_\_\_\_ Total Contact \_\_\_\_\_ Total Cost \_\_\_\_\_