

**KELLOGG COMMUNITY COLLEGE**  
**INDUSTRIAL MACHINING TECHNOLOGY**  
**COURSE OPTIONS**

**SPRING 2024**

Certificate: 30 credits

Associate in Applied Science: 60 credits (combination of industrial machining technology, 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"/> INMT C910-6250	MACHINING TECH ORIENTATION The orientation must be completed at the BACC in Coldwater prior to registration. Please call 517-279-5753 to verify available orientation times.		2	0.00	0.00	0.00
<b>UNIT 05 MACHINE TOOL BASICS</b>						
<input type="checkbox"/> INMT 05010-6250	MACHINERY'S HANDBOOK	0.17	4	18.00	45.82	63.82
<b>UNIT TOTAL</b>		<b>0.17</b>	<b>4</b>	<b>18.00</b>	<b>45.82</b>	<b>63.82</b>
<b>UNIT 10 MACHINE TOOL SAFETY</b>						
<input type="checkbox"/> INMT 10010-6250	MACHINE TOOL SAFETY	0.17	4	30.00	45.82	75.82
<b>UNIT TOTAL</b>		<b>0.17</b>	<b>4</b>	<b>30.00</b>	<b>45.82</b>	<b>75.82</b>
<b>UNIT 15 BLUEPRINT READING</b>						
<input type="checkbox"/> INMT 15010-6250	MACHINE TOOL BLUEPRINT READ	0.83	20	47.00	223.69	270.69
<input type="checkbox"/> INMT 15020-6250	GEOMETRIC DIMENSION TOLERANCE	0.33	8	44.00	88.94	132.94
<b>UNIT TOTAL</b>		<b>1.16</b>	<b>28</b>	<b>91.00</b>	<b>312.63</b>	<b>403.63</b>
<b>UNIT 20 FUNDAMENTAL SKILLS</b>						
<input type="checkbox"/> INMT 20010-6250	BASIC SHOP MATH	0.67	16	47.00	180.57	227.57
<input type="checkbox"/> INMT 20020-6250	MACHINE TOOL MATH	0.75	18	56.00	202.13	258.13
<input type="checkbox"/> INMT 20030-6250	MACHINIST SCALE	0.08	2	23.00	21.56	44.56
<input type="checkbox"/> INMT 20040-6250	DIVIDERS	0.08	2	16.00	21.56	37.56
<input type="checkbox"/> INMT 20050-6250	SPRING CALIPERS	0.08	2	18.00	21.56	39.56
<input type="checkbox"/> INMT 20060-6250	COMBINATION SQUARE	0.08	2	24.00	21.56	45.56
<input type="checkbox"/> INMT 20070-6250	HERMAPHRODITE CALIPERS	0.08	2	18.00	21.56	39.56
<input type="checkbox"/> INMT 20080-6250	SURFACE GAGE	0.08	2	18.00	21.56	39.56
<input type="checkbox"/> INMT 20090-6250	IDENTIFY SURFACE FINISHES	0.08	2	13.00	21.56	39.56
<b>UNIT TOTAL</b>		<b>1.98</b>	<b>48</b>	<b>233.00</b>	<b>533.62</b>	<b>766.62</b>
<b>UNIT 25 PRECISION MEASUREMENT</b>						
<input type="checkbox"/> INMT 25010-6250	MICROMETER	0.13	3	17.00	35.04	52.04
<input type="checkbox"/> INMT 25020-6250	CALIPER DIGITAL VERN DIAL	0.17	4	12.00	45.82	57.82
<input type="checkbox"/> INMT 25030-6250	TELESCOPING GAGES	0.13	3	14.00	35.04	49.04
<input type="checkbox"/> INMT 25040-6250	DEPTH MICROMETER	0.13	3	10.00	35.04	45.04
<input type="checkbox"/> INMT 25050-6250	DIAL INDICATORS	0.13	3	12.00	35.04	47.04
<input type="checkbox"/> INMT 25060-6250	GAGE BLOCKS	0.13	3	21.00	35.04	56.04
<input type="checkbox"/> INMT 25070-6250	MACHINE SHOP TRIGONOMETRY	0.67	16	35.00	180.57	215.57
<input type="checkbox"/> INMT 25080-6250	HEIGHT GAGE	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INMT 25090-6250	SINE BAR	0.17	4	12.00	45.82	57.82
<b>UNIT TOTAL</b>		<b>1.83</b>	<b>43</b>	<b>143.00</b>	<b>493.23</b>	<b>636.23</b>
<b>UNIT 30 DRILL PRESS AND BAND SAW</b>						
<input type="checkbox"/> INMT 30010-6250	SHOP MATH SPEEDS AND FEEDS	0.21	5	35.00	56.60	91.60
<input type="checkbox"/> INMT 30020-6250	SHARPENING DRILL BITS	0.25	6	15.00	67.38	82.38
<input type="checkbox"/> INMT 30030-6250	DRILLING ON THE DRILL PRESS	0.17	4	14.00	45.82	59.82
<input type="checkbox"/> INMT 30040-6250	REAMING ON THE DRILL PRESS	0.13	3	11.00	35.04	46.04
<input type="checkbox"/> INMT 30050-6250	COUNTERBORE SPOTFACE COUNTERSI	0.21	5	11.00	56.60	67.60
<input type="checkbox"/> INMT 30060-6250	HAND TAP ON THE DRILL PRESS	0.21	5	14.00	56.60	70.60
<input type="checkbox"/> INMT 30070-6250	POWER TAP ON THE DRILL PRESS	0.25	6	11.00	67.38	78.38

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<b>UNIT 30 DRILL PRESS AND BAND SAW (CONTINUED)</b>						
<input type="checkbox"/> INMT 30080-6250	DRILL PRESS PROJECT	0.58	14	35.00	156.31	191.31
<input type="checkbox"/> INMT 30090-6250	BAND SAW BLADE WELDING	0.25	6	31.00	67.38	98.38
<input type="checkbox"/> INMT 30100-6250	VERTICAL BAND SAW PROJECT	0.25	6	21.00	67.38	88.38
<b>UNIT TOTAL</b>		<b>2.51</b>	<b>60</b>	<b>198.00</b>	<b>676.49</b>	<b>874.49</b>
<b>UNIT 35 TURNING ON LATHE</b>						
<input type="checkbox"/> INMT 35010-6250	MAINTAINING THE LATHE	0.17	4	18.00	45.82	63.82
<input type="checkbox"/> INMT 35020-6250	GRINDING LATHE TOOLS	0.25	6	32.00	67.38	99.38
<input type="checkbox"/> INMT 35030-6250	FACING ON THE LATHE	0.21	5	23.00	56.60	79.60
<input type="checkbox"/> INMT 35040-6250	ALIGNING LATHE CENTERS	0.17	4	18.00	45.82	63.82
<input type="checkbox"/> INMT 35050-6250	PARALLEL TURNING ON THE LATHE	0.21	5	17.00	56.60	73.60
<input type="checkbox"/> INMT 35060-6250	GROOVE AND PART ON THE LATHE	0.13	3	16.00	35.04	51.04
<input type="checkbox"/> INMT 35070-6250	CUT RADII AND EXTERNAL TAPERS	0.50	12	14.00	134.75	148.75
<input type="checkbox"/> INMT 35080-6250	KNURLING ON THE LATHE	0.13	3	12.00	35.04	47.04
<input type="checkbox"/> INMT 35090-6250	BORING INTERNAL TAPERS	0.67	16	15.00	180.57	195.57
<input type="checkbox"/> INMT 35100-6250	CUTTING EXTERNAL THREADS	0.50	12	29.00	134.75	163.75
<input type="checkbox"/> INMT 35110-6250	CUTTING INTERNAL THREADS	0.42	10	14.00	113.19	127.19
<input type="checkbox"/> INMT 35120-6250	LATHE PROJECT	1.25	30	32.00	336.88	368.88
<b>UNIT TOTAL</b>		<b>4.61</b>	<b>110</b>	<b>240.00</b>	<b>1,242.44</b>	<b>1,482.44</b>
<b>UNIT 45 VERTICAL/HORIZONTAL MILLING</b>						
<input type="checkbox"/> INMT 45010-6250	DIAL IN VISE TRAM IN HEAD	0.21	5	18.00	56.60	74.60
<input type="checkbox"/> INMT 45020-6250	FLY CUTTER END MILL SQ BLOCK	0.21	5	19.00	56.60	75.60
<input type="checkbox"/> INMT 45030-6250	TILT HEAD TURN VISE CUT V	0.50	12	20.00	134.75	154.75
<input type="checkbox"/> INMT 45040-6250	DIGITAL READ DRILL TAP REAM	0.25	6	20.00	67.38	87.38
<input type="checkbox"/> INMT 45050-6250	TURNTABLE CUT RADII	0.33	8	20.00	88.94	108.94
<input type="checkbox"/> INMT 45060-6250	HORIZONTAL MILLING SAW SLOT	0.17	4	13.00	45.82	58.82
<input type="checkbox"/> INMT 45070-6250	SINE PLATE CUT ANGLES	0.33	8	17.00	88.94	105.94
<input type="checkbox"/> INMT 45080-6250	BORING HEAD BORE 4 HOLES	0.33	8	21.00	88.94	109.94
<input type="checkbox"/> INMT 45090-6250	INDEXING HEAD TO CUT KEYWAYS	0.17	4	17.00	45.82	62.82
<input type="checkbox"/> INMT 45100-6250	MATH FOR DIVIDING HEAD	0.17	4	11.00	45.82	56.82
<input type="checkbox"/> INMT 45110-6250	DIVIDING HEAD TO CUT GEARS	0.42	10	15.00	113.19	128.19
<input type="checkbox"/> INMT 45120-6250	UNIVERSAL INDEXING HEAD	0.50	12	13.00	134.75	147.75
<input type="checkbox"/> INMT 45130-6250	5C COLLET TO CUT SQUARE HEX	0.33	8	13.00	88.94	101.94
<input type="checkbox"/> INMT 45140-6250	MAKE DOVE TAILS	0.67	16	34.00	180.57	214.57
<input type="checkbox"/> INMT 45150-6250	MILL PROJECT	1.25	30	32.00	336.88	368.88
<b>UNIT TOTAL</b>		<b>5.84</b>	<b>140</b>	<b>283.00</b>	<b>1,573.94</b>	<b>1,856.94</b>
<b>UNIT 50 SURFACE GRINDING</b>						
<input type="checkbox"/> INMT 50010-6250	SQUARE A BLOCK (6 SIDES)	0.25	6	30.00	67.38	97.38
<input type="checkbox"/> INMT 50020-6250	GRIND ANGLES AND RADII	0.50	12	27.00	134.75	161.75
<input type="checkbox"/> INMT 50030-6250	OPERATE THE AUTOMATIC GRINDER	0.42	10	17.00	113.19	130.19
<input type="checkbox"/> INMT 50040-6250	COMPLETE TWO PROJECTS TO PRINT	1.58	38	21.00	425.81	446.81
<b>UNIT TOTAL</b>		<b>2.75</b>	<b>66</b>	<b>95.00</b>	<b>741.13</b>	<b>836.13</b>
<b>UNIT 70 MACHINE TOOL PROJECTS</b>						
<input type="checkbox"/> INMT 70010-6250	SINE BAR	0.83	20	22.00	223.69	245.69
<input type="checkbox"/> INMT 70020-6250	PRECISION VISE	2.08	50	32.00	560.56	592.56
<input type="checkbox"/> INMT 70030-6250	1-2-3 BLOCKS	1.00	24	22.00	269.50	291.50
<input type="checkbox"/> INMT 70040-6250	TOOL MAKERS V-BLOCKS	1.67	40	24.00	450.07	474.07

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<b>UNIT 70                    MACHINE TOOL PROJECTS (CONTINUED)</b>						
<b>UNIT TOTAL</b>		<b>5.58</b>	<b>134</b>	<b>100.00</b>	<b>1,503.82</b>	<b>1,603.82</b>
<b>TOTAL</b>		<b>26.60</b>	<b>637</b>	<b>1,431.00</b>	<b>7,168.94</b>	<b>8,599.94</b>

**SPECIAL PROJECT MODULES**

(Students must have instructor approval to register.)

<input type="checkbox"/> *INMT C710	BASIC MACHINING PROJECT		2	70.00	0.00	70.00
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\*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 \_\_\_\_\_