

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 C910-7201	MACHINING TECH ORIENTATION The orientation must be completed at the RMTC in Battle Creek prior to registration. please call 269.965.4137 to verify available orientation times.		2	0.00	0.00	0.00
UNIT 05 MACHINE TOOL BASICS						
<input type="checkbox"/> INMT 05010-7201	MACHINERY'S HANDBOOK	0.17	4	18.00	45.82	63.82
UNIT TOTAL		0.17	4	18.00	45.82	63.82
UNIT 10 MACHINE TOOL SAFETY						
<input type="checkbox"/> INMT 10010-7201	MACHINE TOOL SAFETY	0.17	4	30.00	45.82	75.82
UNIT TOTAL		0.17	4	30.00	45.82	75.82
UNIT 15 BLUEPRINT READING						
<input type="checkbox"/> INMT 15010-7201	MACHINE TOOL BLUEPRINT READ	0.83	20	47.00	223.69	270.69
<input type="checkbox"/> INMT 15020-7201	GEOMETRIC DIMENSION TOLERANCE	0.33	8	44.00	88.94	132.94
UNIT TOTAL		1.16	28	91.00	312.63	403.63
UNIT 20 FUNDAMENTAL SKILLS						
<input type="checkbox"/> INMT 20010-7201	BASIC SHOP MATH	0.67	16	47.00	180.57	227.57
<input type="checkbox"/> INMT 20020-7201	MACHINE TOOL MATH	0.75	18	56.00	202.13	258.13
<input type="checkbox"/> INMT 20030-7201	MACHINIST SCALE	0.08	2	23.00	21.56	44.56
<input type="checkbox"/> INMT 20040-7201	DIVIDERS	0.08	2	16.00	21.56	37.56
<input type="checkbox"/> INMT 20050-7201	SPRING CALIPERS	0.08	2	18.00	21.56	39.56
<input type="checkbox"/> INMT 20060-7201	COMBINATION SQUARE	0.08	2	24.00	21.56	45.56
<input type="checkbox"/> INMT 20070-7201	HERMAPHRODITE CALIPERS	0.08	2	18.00	21.56	39.56
<input type="checkbox"/> INMT 20080-7201	SURFACE GAGE	0.08	2	18.00	21.56	39.56
<input type="checkbox"/> INMT 20090-7201	IDENTIFY SURFACE FINISHES	0.08	2	13.00	21.56	39.56
UNIT TOTAL		1.98	48	233.00	533.62	766.62
UNIT 25 PRECISION MEASUREMENT						
<input type="checkbox"/> INMT 25010-7201	MICROMETER	0.13	3	17.00	35.04	52.04
<input type="checkbox"/> INMT 25020-7201	CALIPER DIGITAL VERN DIAL	0.17	4	12.00	45.82	57.82
<input type="checkbox"/> INMT 25030-7201	TELESCOPING GAGES	0.13	3	14.00	35.04	49.04
<input type="checkbox"/> INMT 25040-7201	DEPTH MICROMETER	0.13	3	10.00	35.04	45.04
<input type="checkbox"/> INMT 25050-7201	DIAL INDICATORS	0.13	3	12.00	35.04	47.04
<input type="checkbox"/> INMT 25060-7201	GAGE BLOCKS	0.13	3	21.00	35.04	56.04
<input type="checkbox"/> INMT 25070-7201	MACHINE SHOP TRIGONOMETRY	0.67	16	35.00	180.57	215.57
<input type="checkbox"/> INMT 25080-7201	HEIGHT GAGE	0.17	4	10.00	45.82	55.82
<input type="checkbox"/> INMT 25090-7201	SINE BAR	0.17	4	12.00	45.82	57.82
<input type="checkbox"/> INMT 25100-7201	CMM FUNDAMENTALS	0.25	6	22.00	67.38	89.38
<input type="checkbox"/> INMT 25110-7201	CMM PART INSPECTION	0.67	16	27.00	180.57	207.57
UNIT TOTAL		2.75	65	192.00	741.18	933.18
UNIT 30 DRILL PRESS AND BAND SAW						
<input type="checkbox"/> INMT 30010-7201	SHOP MATH SPEEDS AND FEEDS	0.21	5	35.00	56.60	91.60
<input type="checkbox"/> INMT 30020-7201	SHARPENING DRILL BITS	0.25	6	15.00	67.38	82.38
<input type="checkbox"/> INMT 30030-7201	DRILLING ON THE DRILL PRESS	0.17	4	14.00	45.82	59.82
<input type="checkbox"/> INMT 30040-7201	REAMING ON THE DRILL PRESS	0.13	3	11.00	35.04	46.04
<input type="checkbox"/> INMT 30050-7201	COUNTERBORE SPOTFACE COUNTERSI	0.21	5	11.00	56.60	67.60

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UNIT 30 DRILL PRESS AND BAND SAW (CONTINUED)						
<input type="checkbox"/> INMT 30060-7201	HAND TAP ON THE DRILL PRESS	0.21	5	14.00	56.60	70.60
<input type="checkbox"/> INMT 30070-7201	POWER TAP ON THE DRILL PRESS	0.25	6	11.00	67.38	78.38
<input type="checkbox"/> INMT 30080-7201	DRILL PRESS PROJECT	0.58	14	35.00	156.31	191.31
<input type="checkbox"/> INMT 30090-7201	BAND SAW BLADE WELDING	0.25	6	31.00	67.38	98.38
<input type="checkbox"/> INMT 30100-7201	VERTICAL BAND SAW PROJECT	0.25	6	21.00	67.38	88.38
UNIT TOTAL		2.51	60	198.00	676.49	874.49
UNIT 35 TURNING ON LATHE						
<input type="checkbox"/> INMT 35010-7201	MAINTAINING THE LATHE	0.17	4	18.00	45.82	63.82
<input type="checkbox"/> INMT 35020-7201	GRINDING LATHE TOOLS	0.25	6	32.00	67.38	99.38
<input type="checkbox"/> INMT 35030-7201	FACING ON THE LATHE	0.21	5	23.00	56.60	79.60
<input type="checkbox"/> INMT 35040-7201	ALIGNING LATHE CENTERS	0.17	4	18.00	45.82	63.82
<input type="checkbox"/> INMT 35050-7201	PARALLEL TURNING ON THE LATHE	0.21	5	17.00	56.60	73.60
<input type="checkbox"/> INMT 35060-7201	GROOVE AND PART ON THE LATHE	0.13	3	16.00	35.04	51.04
<input type="checkbox"/> INMT 35070-7201	CUT RADII AND EXTERNAL TAPERS	0.50	12	14.00	134.75	148.75
<input type="checkbox"/> INMT 35080-7201	KNURLING ON THE LATHE	0.13	3	12.00	35.04	47.04
<input type="checkbox"/> INMT 35090-7201	BORING INTERNAL TAPERS	0.67	16	15.00	180.57	195.57
<input type="checkbox"/> INMT 35100-7201	CUTTING EXTERNAL THREADS	0.50	12	29.00	134.75	163.75
<input type="checkbox"/> INMT 35110-7201	CUTTING INTERNAL THREADS	0.42	10	14.00	113.19	127.19
<input type="checkbox"/> INMT 35120-7201	LATHE PROJECT	1.25	30	32.00	336.88	368.88
UNIT TOTAL		4.61	110	240.00	1242.44	1482.44
UNIT 40 ELECTRONIC DISCHARGE MACHINING						
<input type="checkbox"/> INMT 40010-7201	EDM FUNDAMENTALS	0.29	7	16.00	78.16	94.16
<input type="checkbox"/> INMT 40020-7201	EDM PROJECT	0.50	12	22.00	134.75	156.75
UNIT TOTAL		0.79	19	38.00	212.91	250.91
UNIT 45 VERTICAL/HORIZONTAL MILLING						
<input type="checkbox"/> INMT 45010-7201	DIAL IN VISE TRAM IN HEAD	0.21	5	18.00	56.60	74.60
<input type="checkbox"/> INMT 45020-7201	FLY CUTTER END MILL SQ BLOCK	0.21	5	19.00	56.60	75.60
<input type="checkbox"/> INMT 45030-7201	TILT HEAD TURN VISE CUT V	0.50	12	20.00	134.75	154.75
<input type="checkbox"/> INMT 45040-7201	DIGITAL READ DRILL TAP REAM	0.25	6	20.00	67.38	87.38
<input type="checkbox"/> INMT 45050-7201	TURNTABLE CUT RADII	0.33	8	20.00	88.94	108.94
<input type="checkbox"/> INMT 45060-7201	HORIZONTAL MILLING SAW SLOT	0.17	4	13.00	45.82	58.82
<input type="checkbox"/> INMT 45070-7201	SINE PLATE CUT ANGLES	0.33	8	17.00	88.94	105.94
<input type="checkbox"/> INMT 45080-7201	BORING HEAD BORE 4 HOLES	0.33	8	21.00	88.94	109.94
<input type="checkbox"/> INMT 45090-7201	INDEXING HEAD TO CUT KEYWAYS	0.17	4	17.00	45.82	62.82
<input type="checkbox"/> INMT 45100-7201	MATH FOR DIVIDING HEAD	0.17	4	11.00	45.82	56.82
<input type="checkbox"/> INMT 45110-7201	DIVIDING HEAD TO CUT GEARS	0.42	10	15.00	113.19	128.19
<input type="checkbox"/> INMT 45120-7201	UNIVERSAL INDEXING HEAD	0.50	12	13.00	134.75	147.75
<input type="checkbox"/> INMT 45130-7201	5C COLLET TO CUT SQUARE HEX	0.33	8	13.00	88.94	101.94
<input type="checkbox"/> INMT 45140-7201	MAKE DOVE TAILS	0.67	16	34.00	180.57	214.57
<input type="checkbox"/> INMT 45150-7201	MILL PROJECT	1.25	30	32.00	336.88	368.88
UNIT TOTAL		5.84	140	283.00	1573.94	1856.94
UNIT 50 SURFACE GRINDING						
<input type="checkbox"/> INMT 50010-7201	SQUARE A BLOCK (6 SIDES)	0.25	6	30.00	67.38	97.38
<input type="checkbox"/> INMT 50020-7201	GRIND ANGLES AND RADII	0.50	12	27.00	134.75	161.75
<input type="checkbox"/> INMT 50030-7201	OPERATE THE AUTOMATIC GRINDER	0.42	10	17.00	113.19	130.19
<input type="checkbox"/> INMT 50040-7201	COMPLETE TWO PROJECTS TO PRINT	1.58	38	21.00	425.81	446.81

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UNIT 50 SURFACE GRINDING (CONTINUED)						
UNIT TOTAL		2.75	66	95.00	741.13	836.13
UNIT 55 CYLINDRICAL GRINDING						
<input type="checkbox"/> INMT 55010-7201	PARALLEL GRIND TO PRINT	1.00	24	25.00	269.50	294.50
<input type="checkbox"/> INMT 55020-7201	EXTERNAL AND INTERNAL TAPERS	0.50	12	18.00	134.75	152.75
UNIT TOTAL		1.50	36	43.00	404.25	447.25
UNIT 65 CNC PROGRAMMING AND MACHINING						
<input type="checkbox"/> INMT 65010-7201	CNC FUNDAMENTALS	0.83	20	93.00	223.69	316.69
<input type="checkbox"/> INMT 65020-7201	CNC TURNING	1.67	40	119.00	450.07	569.07
<input type="checkbox"/> INMT 65030-7201	CNC MILLING	1.67	40	112.00	450.07	562.07
<input type="checkbox"/> INMT 65040-7201	CNC ADVANCED PROGRAMMING	2.08	50	95.00	560.56	655.56
UNIT TOTAL		6.25	150	419.00	1684.39	2103.39
UNIT 70 MACHINE TOOL PROJECTS						
<input type="checkbox"/> INMT 70010-7201	SINE BAR	0.83	20	22.00	223.69	245.69
<input type="checkbox"/> INMT 70020-7201	PRECISION VISE	2.08	50	32.00	560.56	592.56
<input type="checkbox"/> INMT 70030-7201	1-2-3 BLOCKS	1.00	24	22.00	269.50	291.50
<input type="checkbox"/> INMT 70040-7201	TOOL MAKERS V-BLOCKS	1.67	40	24.00	450.07	474.07
UNIT TOTAL		5.58	134	100.00	1503.82	1603.82
UNIT 75 MASTERCAM						
<input type="checkbox"/> INMT 75010-7201	MASTERCAM LEVEL 1 MILL	1.50	36	88.00	404.25	492.25
<input type="checkbox"/> INMT 75020-7201	MASTERCAM LEVEL 3 MILL	2.00	48	82.00	539.00	621.00
<input type="checkbox"/> INMT 75030-7201	MASTERCAM LATHE DESIGN	1.00	24	59.00	269.50	328.50
UNIT TOTAL		4.50	108	229.00	1212.75	1441.75
TOTAL		40.56	974	2,209.00	10,931.19	13,140.19

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
<input type="checkbox"/> *INMT C720	INTERMEDIATE MACHINING PROJECT		4	140.00	0.00	140.00
<input type="checkbox"/> *INMT C730	ADVANCED MACHINING 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 _____