MODULES OFFERED AT THE REGIONAL MANUFACTURING TECHNOLOGY CENTER

KELLOGG COMMUNITY COLLEGE

INDUSTRIAL MACHINING TECHNOLOGY

FALL 2023

COURSE OPTIONS

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
☐ INMT C910-7201	MACHINING TECH 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	**MACHINE TOOL BASICS**					
☐ 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**					
☐ 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**					
☐ INMT 15010-7201	MACHINE TOOL BLUEPRINT READ	0.83	20	47.00	223.69	270.69
☐ 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**					
☐ INMT 20010-7201	BASIC SHOP MATH	0.67	16	47.00	180.57	227.57
☐ INMT 20020-7201	MACHINE TOOL MATH	0.75	18	56.00	202.13	258.13
☐ INMT 20030-7201	MACHINIST SCALE	0.08	2	23.00	21.56	44.56
☐ INMT 20040-7201	DIVIDERS	0.08	2	16.00	21.56	37.56
☐ INMT 20050-7201	SPRING CALIPERS	0.08	2	18.00	21.56	39.56
☐ INMT 20060-7201	COMBINATION SQUARE	0.08	2	24.00	21.56	45.56
☐ INMT 20070-7201	HERMAPHRODITE CALIPERS	0.08	2	18.00	21.56	39.56
☐ INMT 20080-7201	SURFACE GAGE	0.08	2	18.00	21.56	39.56
☐ 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**					
☐ INMT 25010-7201	MICROMETER	0.13	3	17.00	35.04	52.04
☐ INMT 25020-7201	CALIPER DIGITAL VERN DIAL	0.17	4	12.00	45.82	57.82
☐ INMT 25030-7201	TELESCOPING GAGES	0.13	3	14.00	35.04	49.04
☐ INMT 25040-7201	DEPTH MICROMETER	0.13	3	10.00	35.04	45.04
☐ INMT 25050-7201	DIAL INDICATORS	0.13	3	12.00	35.04	47.04
☐ INMT 25060-7201	GAGE BLOCKS	0.13	3	21.00	35.04	56.04
☐ INMT 25070-7201	MACHINE SHOP TRIGONOMETRY	0.67	16	35.00	180.57	215.57
☐ INMT 25080-7201	HEIGHT GAGE	0.17	4	10.00	45.82	55.82
☐ INMT 25090-7201	SINE BAR	0.17	4	12.00	45.82	57.82
☐ INMT 25100-7201	CMM FUNDAMENTALS	0.25	6	22.00	67.38	89.38
☐ 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**					
☐ INMT 30010-7201	SHOP MATH SPEEDS AND FEEDS	0.21	5	35.00	56.60	91.60
☐ INMT 30020-7201	SHARPENING DRILL BITS	0.25	6	15.00	67.38	82.38
☐ INMT 30030-7201	DRILLING ON THE DRILL PRESS	0.17	4	14.00	45.82	59.82
☐ INMT 30040-7201	REAMING ON THE DRILL PRESS	0.13	3	11.00	35.04	46.04
☐ INMT 30050-7201	COUNTERBORE SPOTFACE COUNTERSI	0.21	5	11.00	56.60	67.60

KELLOGG COMMUNITY COLLEGE

INDUSTRIAL MACHINING TECHNOLOGY

FALL 2023

COURSE OPTIONS

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

MODULES OFFERED AT THE REGIONAL MANUFACTURING TECHNOLOGY CENTER

KELLOGG COMMUNITY COLLEGE

INDUSTRIAL MACHINING TECHNOLOGY

FALL 2023

COURSE OPTIONS

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
UNIT 50	**SURFACE GRINDING (CONTINUED)**					
	UNIT TOTAL	***2.75***	***66***	***95.00***	***741.13***	***836.13***
UNIT 55	**CYLINDRICAL GRINDING**					
☐ INMT 55010-7201	PARALLEL GRIND TO PRINT	1.00	24	25.00	269.50	294.50
☐ 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**					
☐ INMT 65010-7201	CNC FUNDAMENTALS	0.83	20	93.00	223.69	316.69
☐ INMT 65020-7201	CNC TURNING	1.67	40	119.00	450.07	569.07
☐ INMT 65030-7201	CNC MILLING	1.67	40	112.00	450.07	562.07
☐ 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**					
☐ INMT 70010-7201	SINE BAR	0.83	20	22.00	223.69	245.69
☐ INMT 70020-7201	PRECISION VISE	2.08	50	32.00	560.56	592.56
☐ INMT 70030-7201	1-2-3 BLOCKS	1.00	24	22.00	269.50	291.50
☐ 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**					
☐ INMT 75010-7201	MASTERCAM LEVEL 1 MILL	1.50	36	88.00	404.25	492.25
☐ INMT 75020-7201	MASTERCAM LEVEL 3 MILL	2.00	48	82.00	539.00	621.00
☐ 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.)

☐ *INMT C710	BASIC MACHINING PROJECT	2	70.00	0.00	70.00
☐ *INMT C720	INTERMEDIATE MACHINING PROJECT	4	140.00	0.00	140.00
☐ *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 _____