

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

**SPRING 2022**

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<br>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          |
| <b>UNIT 05 MACHINE TOOL BASICS</b>       |  |             |               |               |               |               |
| <input type="checkbox"/> INMT 05010-7201 | MACHINERY'S HANDBOOK   | 0.17        | 4             | 18.00         | 43.86         | 61.86         |
| <b>UNIT TOTAL</b>                        |  | <b>0.17</b> | <b>4</b>      | <b>18.00</b>  | <b>43.86</b>  | <b>61.86</b>  |
| <b>UNIT 10 MACHINE TOOL SAFETY</b>       |  |             |               |               |               |               |
| <input type="checkbox"/> INMT 10010-7201 | MACHINE TOOL SAFETY  | 0.17        | 4             | 30.00         | 43.86         | 73.86         |
| <b>UNIT TOTAL</b>                        |  | <b>0.17</b> | <b>4</b>      | <b>30.00</b>  | <b>43.86</b>  | <b>73.86</b>  |
| <b>UNIT 15 BLUEPRINT READING</b>         |  |             |               |               |               |               |
| <input type="checkbox"/> INMT 15010-7201 | MACHINE TOOL BLUEPRINT READ  | 0.83        | 20            | 47.00         | 214.14        | 261.14        |
| <input type="checkbox"/> INMT 15020-7201 | GEOMETRIC DIMENSION TOLERANCE  | 0.33        | 8             | 44.00         | 85.14         | 129.14        |
| <b>UNIT TOTAL</b>                        |  | <b>1.16</b> | <b>28</b>     | <b>91.00</b>  | <b>299.28</b> | <b>390.28</b> |
| <b>UNIT 20 FUNDAMENTAL SKILLS</b>        |  |             |               |               |               |               |
| <input type="checkbox"/> INMT 20010-7201 | BASIC SHOP MATH  | 0.67        | 16            | 47.00         | 172.86        | 219.86        |
| <input type="checkbox"/> INMT 20020-7201 | MACHINE TOOL MATH  | 0.75        | 18            | 56.00         | 193.50        | 249.50        |
| <input type="checkbox"/> INMT 20030-7201 | MACHINIST SCALE  | 0.08        | 2             | 23.00         | 20.64         | 43.64         |
| <input type="checkbox"/> INMT 20040-7201 | DIVIDERS   | 0.08        | 2             | 16.00         | 20.64         | 36.64         |
| <input type="checkbox"/> INMT 20050-7201 | SPRING CALIPERS  | 0.08        | 2             | 18.00         | 20.64         | 38.64         |
| <input type="checkbox"/> INMT 20060-7201 | COMBINATION SQUARE   | 0.08        | 2             | 24.00         | 20.64         | 44.64         |
| <input type="checkbox"/> INMT 20070-7201 | HERMAPHRODITE CALIPERS   | 0.08        | 2             | 18.00         | 20.64         | 38.64         |
| <input type="checkbox"/> INMT 20080-7201 | SURFACE GAGE   | 0.08        | 2             | 18.00         | 20.64         | 38.64         |
| <input type="checkbox"/> INMT 20090-7201 | IDENTIFY SURFACE FINISHES  | 0.08        | 2             | 13.00         | 20.64         | 33.64         |
| <b>UNIT TOTAL</b>                        |  | <b>1.98</b> | <b>48</b>     | <b>233.00</b> | <b>510.84</b> | <b>743.84</b> |
| <b>UNIT 25 PRECISION MEASUREMENT</b>     |  |             |               |               |               |               |
| <input type="checkbox"/> INMT 25010-7201 | MICROMETER   | 0.13        | 3             | 17.00         | 33.54         | 50.54         |
| <input type="checkbox"/> INMT 25020-7201 | CALIPER DIGITAL VERN DIAL  | 0.17        | 4             | 12.00         | 43.86         | 55.86         |
| <input type="checkbox"/> INMT 25030-7201 | TELESCOPING GAGES  | 0.13        | 3             | 14.00         | 33.54         | 47.54         |
| <input type="checkbox"/> INMT 25040-7201 | DEPTH MICROMETER   | 0.13        | 3             | 10.00         | 33.54         | 43.54         |
| <input type="checkbox"/> INMT 25050-7201 | DIAL INDICATORS  | 0.13        | 3             | 12.00         | 33.54         | 45.54         |
| <input type="checkbox"/> INMT 25060-7201 | GAGE BLOCKS  | 0.13        | 3             | 21.00         | 33.54         | 54.54         |
| <input type="checkbox"/> INMT 25070-7201 | MACHINE SHOP TRIGONOMETRY  | 0.67        | 16            | 35.00         | 172.86        | 207.86        |
| <input type="checkbox"/> INMT 25080-7201 | HEIGHT GAGE  | 0.17        | 4             | 10.00         | 43.86         | 53.86         |
| <input type="checkbox"/> INMT 25090-7201 | SINE BAR   | 0.17        | 4             | 12.00         | 43.86         | 55.86         |
| <input type="checkbox"/> INMT 25100-7201 | CMM FUNDAMENTALS   | 0.25        | 6             | 22.00         | 64.50         | 86.50         |
| <input type="checkbox"/> INMT 25110-7201 | CMM PART INSPECTION  | 0.67        | 16            | 27.00         | 172.86        | 199.86        |
| <b>UNIT TOTAL</b>                        |  | <b>2.75</b> | <b>65</b>     | <b>192.00</b> | <b>709.50</b> | <b>901.50</b> |
| <b>UNIT 30 DRILL PRESS AND BAND SAW</b>  |  |             |               |               |               |               |
| <input type="checkbox"/> INMT 30010-7201 | SHOP MATH SPEEDS AND FEEDS   | 0.21        | 5             | 35.00         | 54.18         | 89.18         |
| <input type="checkbox"/> INMT 30020-7201 | SHARPENING DRILL BITS  | 0.25        | 6             | 15.00         | 64.50         | 79.50         |
| <input type="checkbox"/> INMT 30030-7201 | DRILLING ON THE DRILL PRESS  | 0.17        | 4             | 14.00         | 43.86         | 57.86         |
| <input type="checkbox"/> INMT 30040-7201 | REAMING ON THE DRILL PRESS   | 0.13        | 3             | 11.00         | 33.54         | 44.54         |
| <input type="checkbox"/> INMT 30050-7201 | COUNTERBORE SPOTFACE COUNTERSI   | 0.21        | 5             | 11.00         | 54.18         | 65.18         |

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| <b>UNIT 30 DRILL PRESS AND BAND SAW (CONTINUED)</b> |                                |             |               |               |                |                |
| <input type="checkbox"/> INMT 30060-7201            | HAND TAP ON THE DRILL PRESS    | 0.21        | 5             | 14.00         | 54.18          | 68.18          |
| <input type="checkbox"/> INMT 30070-7201            | POWER TAP ON THE DRILL PRESS   | 0.25        | 6             | 11.00         | 64.50          | 75.50          |
| <input type="checkbox"/> INMT 30080-7201            | DRILL PRESS PROJECT            | 0.58        | 14            | 35.00         | 149.64         | 184.64         |
| <input type="checkbox"/> INMT 30090-7201            | BAND SAW BLADE WELDING         | 0.25        | 6             | 31.00         | 64.50          | 95.50          |
| <input type="checkbox"/> INMT 30100-7201            | VERTICAL BAND SAW PROJECT      | 0.25        | 6             | 21.00         | 64.50          | 85.50          |
| <b>UNIT TOTAL</b>                                   |                                | <b>2.51</b> | <b>60</b>     | <b>198.00</b> | <b>647.58</b>  | <b>845.58</b>  |
| <b>UNIT 35 TURNING ON LATHE</b>                     |                                |             |               |               |                |                |
| <input type="checkbox"/> INMT 35010-7201            | MAINTAINING THE LATHE          | 0.17        | 4             | 18.00         | 43.86          | 61.86          |
| <input type="checkbox"/> INMT 35020-7201            | GRINDING LATHE TOOLS           | 0.25        | 6             | 32.00         | 64.50          | 96.50          |
| <input type="checkbox"/> INMT 35030-7201            | FACING ON THE LATHE            | 0.21        | 5             | 23.00         | 54.18          | 77.18          |
| <input type="checkbox"/> INMT 35040-7201            | ALIGNING LATHE CENTERS         | 0.17        | 4             | 18.00         | 43.86          | 61.86          |
| <input type="checkbox"/> INMT 35050-7201            | PARALLEL TURNING ON THE LATHE  | 0.21        | 5             | 17.00         | 54.18          | 71.18          |
| <input type="checkbox"/> INMT 35060-7201            | GROOVE AND PART ON THE LATHE   | 0.13        | 3             | 16.00         | 33.54          | 49.54          |
| <input type="checkbox"/> INMT 35070-7201            | CUT RADII AND EXTERNAL TAPERS  | 0.50        | 12            | 14.00         | 129.00         | 143.00         |
| <input type="checkbox"/> INMT 35080-7201            | KNURLING ON THE LATHE          | 0.13        | 3             | 12.00         | 33.54          | 45.54          |
| <input type="checkbox"/> INMT 35090-7201            | BORING INTERNAL TAPERS         | 0.67        | 16            | 15.00         | 172.86         | 187.86         |
| <input type="checkbox"/> INMT 35100-7201            | CUTTING EXTERNAL THREADS       | 0.50        | 12            | 29.00         | 129.00         | 158.00         |
| <input type="checkbox"/> INMT 35110-7201            | CUTTING INTERNAL THREADS       | 0.42        | 10            | 14.00         | 108.36         | 122.36         |
| <input type="checkbox"/> INMT 35120-7201            | LATHE PROJECT                  | 1.25        | 30            | 32.00         | 322.50         | 354.50         |
| <b>UNIT TOTAL</b>                                   |                                | <b>4.61</b> | <b>110</b>    | <b>240.00</b> | <b>1189.38</b> | <b>1429.38</b> |
| <b>UNIT 40 ELECTRONIC DISCHARGE MACHINING</b>       |                                |             |               |               |                |                |
| <input type="checkbox"/> INMT 40010-7201            | EDM FUNDAMENTALS               | 0.29        | 7             | 16.00         | 74.82          | 90.82          |
| <input type="checkbox"/> INMT 40020-7201            | EDM PROJECT                    | 0.50        | 12            | 22.00         | 129.00         | 151.00         |
| <b>UNIT TOTAL</b>                                   |                                | <b>0.79</b> | <b>19</b>     | <b>38.00</b>  | <b>203.82</b>  | <b>241.82</b>  |
| <b>UNIT 45 VERTICAL/HORIZONTAL MILLING</b>          |                                |             |               |               |                |                |
| <input type="checkbox"/> INMT 45010-7201            | DIAL IN VISE TRAM IN HEAD      | 0.21        | 5             | 18.00         | 54.18          | 72.18          |
| <input type="checkbox"/> INMT 45020-7201            | FLY CUTTER END MILL SQ BLOCK   | 0.21        | 5             | 19.00         | 54.18          | 73.18          |
| <input type="checkbox"/> INMT 45030-7201            | TILT HEAD TURN VISE CUT V      | 0.50        | 12            | 20.00         | 129.00         | 149.00         |
| <input type="checkbox"/> INMT 45040-7201            | DIGITAL READ DRILL TAP REAM    | 0.25        | 6             | 20.00         | 64.50          | 84.50          |
| <input type="checkbox"/> INMT 45050-7201            | TURNTABLE CUT RADII            | 0.33        | 8             | 20.00         | 85.14          | 105.14         |
| <input type="checkbox"/> INMT 45060-7201            | HORIZONTAL MILLING SAW SLOT    | 0.17        | 4             | 13.00         | 43.86          | 56.86          |
| <input type="checkbox"/> INMT 45070-7201            | SINE PLATE CUT ANGLES          | 0.33        | 8             | 17.00         | 85.14          | 102.14         |
| <input type="checkbox"/> INMT 45080-7201            | BORING HEAD BORE 4 HOLES       | 0.33        | 8             | 21.00         | 85.14          | 106.14         |
| <input type="checkbox"/> INMT 45090-7201            | INDEXING HEAD TO CUT KEYWAYS   | 0.17        | 4             | 17.00         | 43.86          | 60.86          |
| <input type="checkbox"/> INMT 45100-7201            | MATH FOR DIVIDING HEAD         | 0.17        | 4             | 11.00         | 43.86          | 54.86          |
| <input type="checkbox"/> INMT 45110-7201            | DIVIDING HEAD TO CUT GEARS     | 0.42        | 10            | 15.00         | 108.36         | 123.36         |
| <input type="checkbox"/> INMT 45120-7201            | UNIVERSAL INDEXING HEAD        | 0.50        | 12            | 13.00         | 129.00         | 142.00         |
| <input type="checkbox"/> INMT 45130-7201            | 5C COLLET TO CUT SQUARE HEX    | 0.33        | 8             | 13.00         | 85.14          | 98.14          |
| <input type="checkbox"/> INMT 45140-7201            | MAKE DOVE TAILS                | 0.67        | 16            | 34.00         | 172.86         | 206.86         |
| <input type="checkbox"/> INMT 45150-7201            | MILL PROJECT                   | 1.25        | 30            | 32.00         | 322.50         | 354.50         |
| <b>UNIT TOTAL</b>                                   |                                | <b>5.84</b> | <b>140</b>    | <b>283.00</b> | <b>1506.72</b> | <b>1789.72</b> |
| <b>UNIT 50 SURFACE GRINDING</b>                     |                                |             |               |               |                |                |
| <input type="checkbox"/> INMT 50010-7201            | SQUARE A BLOCK (6 SIDES)       | 0.25        | 6             | 30.00         | 64.50          | 94.50          |
| <input type="checkbox"/> INMT 50020-7201            | GRIND ANGLES AND RADII         | 0.50        | 12            | 27.00         | 129.00         | 156.00         |
| <input type="checkbox"/> INMT 50030-7201            | OPERATE THE AUTOMATIC GRINDER  | 0.42        | 10            | 17.00         | 108.36         | 125.36         |
| <input type="checkbox"/> INMT 50040-7201            | COMPLETE TWO PROJECTS TO PRINT | 1.58        | 38            | 21.00         | 407.64         | 428.64         |

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| <b>UNIT 50 SURFACE GRINDING (CONTINUED)</b>  |                              |              |               |                 |                  |                  |
| <b>UNIT TOTAL</b>                            |                              | <b>2.75</b>  | <b>66</b>     | <b>95.00</b>    | <b>709.50</b>    | <b>804.50</b>    |
| <b>UNIT 55 CYLINDRICAL GRINDING</b>          |                              |              |               |                 |                  |                  |
| <input type="checkbox"/> INMT 55010-7201     | PARALLEL GRIND TO PRINT      | 1.00         | 24            | 25.00           | 258.00           | 283.00           |
| <input type="checkbox"/> INMT 55020-7201     | EXTERNAL AND INTERNAL TAPERS | 0.50         | 12            | 18.00           | 129.00           | 147.00           |
| <b>UNIT TOTAL</b>                            |                              | <b>1.50</b>  | <b>36</b>     | <b>43.00</b>    | <b>387.00</b>    | <b>430.00</b>    |
| <b>UNIT 65 CNC PROGRAMMING AND MACHINING</b> |                              |              |               |                 |                  |                  |
| <input type="checkbox"/> INMT 65010-7201     | CNC FUNDAMENTALS             | 0.83         | 20            | 93.00           | 214.14           | 307.14           |
| <input type="checkbox"/> INMT 65020-7201     | CNC TURNING                  | 1.67         | 40            | 119.00          | 430.86           | 549.86           |
| <input type="checkbox"/> INMT 65030-7201     | CNC MILLING                  | 1.67         | 40            | 112.00          | 430.86           | 542.86           |
| <input type="checkbox"/> INMT 65040-7201     | CNC ADVANCED PROGRAMMING     | 2.08         | 50            | 95.00           | 536.64           | 631.64           |
| <b>UNIT TOTAL</b>                            |                              | <b>6.25</b>  | <b>150</b>    | <b>419.00</b>   | <b>1612.50</b>   | <b>2031.50</b>   |
| <b>UNIT 70 MACHINE TOOL PROJECTS</b>         |                              |              |               |                 |                  |                  |
| <input type="checkbox"/> INMT 70010-7201     | SINE BAR                     | 0.83         | 20            | 22.00           | 214.14           | 236.14           |
| <input type="checkbox"/> INMT 70020-7201     | PRECISION VISE               | 2.08         | 50            | 32.00           | 536.64           | 568.64           |
| <input type="checkbox"/> INMT 70030-7201     | 1-2-3 BLOCKS                 | 1.00         | 24            | 22.00           | 258.00           | 280.00           |
| <input type="checkbox"/> INMT 70040-7201     | TOOL MAKERS V-BLOCKS         | 1.67         | 40            | 24.00           | 430.86           | 454.86           |
| <b>UNIT TOTAL</b>                            |                              | <b>5.58</b>  | <b>134</b>    | <b>100.00</b>   | <b>1439.64</b>   | <b>1539.64</b>   |
| <b>UNIT 75 MASTERCAM</b>                     |                              |              |               |                 |                  |                  |
| <input type="checkbox"/> INMT 75010-7201     | MASTERCAM LEVEL 1 MILL       | 1.50         | 36            | 88.00           | 387.00           | 475.00           |
| <input type="checkbox"/> INMT 75020-7201     | MASTERCAM LEVEL 3 MILL       | 2.00         | 48            | 82.00           | 516.00           | 598.00           |
| <input type="checkbox"/> INMT 75030-7201     | MASTERCAM LATHE DESIGN       | 1.00         | 24            | 59.00           | 258.00           | 317.00           |
| <b>UNIT TOTAL</b>                            |                              | <b>4.50</b>  | <b>108</b>    | <b>229.00</b>   | <b>1161.00</b>   | <b>1390.00</b>   |
| <b>TOTAL</b>                                 |                              | <b>40.56</b> | <b>974</b>    | <b>2,209.00</b> | <b>10,464.48</b> | <b>12,673.48</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  |
| <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 \_\_\_\_\_