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**Computerized Manufacturing and Machining – CNC Machinist**

**Diploma**

**Program Coordinator: Danny Roberts E-mail:** [**danny.roberts@kctcs.edu**](mailto:danny.roberts@kctcs.edu) **Phone: 859-246-6773**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/computerized-manufacturing-machining.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/computerized-manufacturing-machining.aspx)

**Student Name: Student ID:**

***Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.***

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| **New students must start CMM classes in the Fall semester.** | | | | | |
| **First Semester** | **Credit Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CMM 114 Fundamentals of Machine Tools | 6 |  |  |  | Fall only |
| CMM 118 Metrology/Control Charts | 2 |  |  |  | Fall only |
| BRX 112 Blueprint Reading for Machinist | 4 |  |  |  | Fall only |
| **Total Semester Credit Hours** | **12** |  |  |  |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | | **Notes** | |
| CMM 124 Applied Machining | 6 |  |  | CMM 114 | | Spring only | |
| CMM 134 Manual Programming CAD/CAM/CNC ORCMM 138 Introduction to Programming and CNC Machines | 6 |  |  | CMM 114 | | Spring only | |
| Written Communication, Oral Communication, OR Heritage/Humanities course | 3 |  |  |  | |  | |
| **Total Semester Credit Hours** | **15** |  |  | |  | |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CMM 214 Industrial Machining | 6 |  |  | CMM 124 | Fall only |
| CMM 234 CNC Machines and Coding Practices | 6 |  |  | CMM 134 or CMM 138 | Fall only |
| Social/Behavioral Sciences, Natural Sciences, OR Quantitative Reasoning course | 3 |  |  |  |  |
| Digital Literacy | 0 – 3 |  |  |  | Digital literacy course or competency exam |
| **Total Semester Credit Hours** | **15 – 18** |  |  |  |

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| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CMM 224 Advanced Industrial Machining | 6 |  |  | CMM 134 and CMM 214 | Spring only |
| CMM 244 Advanced Programming/Setup Practices | 6 |  |  | CMM 134 and CMM 214 | Spring only |
| CMM 298 Practicum OR  CMM 299 Cooperative Education | 1 |  |  |  |  |
| **Total Semester Credit Hours** | **13** |  |  |  |
| **Total Diploma Credit Hours** | **55 – 58** |  |  |  |

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| * **25% or more of Total Diploma Credit Hours must be earned at BCTC** * **Cumulative GPA must be 2.0 or higher** |

**Graduation Requirements:**

**Advisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Additional Information** |
| New students must start CMM classes in the Fall semester.  Students must earn a grade of C or better in each CMM and BRX course. |

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| **Embedded Credentials** | | | |
| Credential | Title | Requirements | Total Credit Hours |
| Certificate | Exploratory Machining I | CMM 114, 5 hours of electives | 11 |

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| * **25% or more of Total Certificate Credit Hours must be earned at BCTC** * **Grade of C or higher in each course required for certificate** |

**Certificate Requirements:**