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**Computerized Manufacturing and Machining – CNC Operator**

 **Certificate**

**Associate in Applied Science degree**

**Program Coordinator: Danny Roberts E-mail:** **danny.roberts@kctcs.edu** **Phone: 859-246-6773**

[**Program Website**](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 |
| MAT 116 Technical Mathematics or MAT 126 Technical Algebra and Trigonometry or Higher | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **15** |  |  |  |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CMM 134 Manual Programming CAD/CAM/CNC ORCMM 138 Intro to Programming and CNC Machines | 6 |  |  | CMM 114 | Spring only |
| Digital Literacy | 0-3 |  |  |  | Digital literacy course or competency exam |
| **Total Semester Credit Hours** | **6 – 9** |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CMM 230 Conversational Programming ORCMM 234 CNC Machines and Coding Practices | 6 |  |  | Instructor Consent RequiredCMM 134 or CMM 138  | Fall only |
| **Total Semester Credit Hours** | **6** |  |  |  |
| **Total Certificate Credit Hours** | **27 – 30** |  |  |  |

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| **Additional Information** |
| New students must start CMM classes in the Fall semester.General Education courses (math, natural sciences, writing, social and behavioral sciences, and heritage or humanities) can be taken in any order. It is recommended that math be taken in the first semester if possible. Students must earn a grade of C or better in each CMM and BRX course.Alternate course numbers that are equivalent to courses listed in the above plan:CMM 110 and CMM 112 = CMM 114BRX 110 and BRX 201 = BRX 112CMM 120 and CMM 122 = CMM 124CMM 130 and CMM 134 = CMM 134CMM 2301 and CMM 2302 = CMM 230 |

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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 the certificate**
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**Graduation Requirements:**

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