[Computerized Manufacturing and Machining – CNC Operator](https://bluegrass.kctcs.edu/education-training/program-finder/computerized-manufacturing-machining.aspx)

Certificate

Coordinator: Danny Roberts ([danny.roberts@kctcs.edu](mailto:danny.roberts@kctcs.edu)) 859-246-6773

Student Name: Student ID:

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

NOTE: New students must start CMM classes in the Fall semester.

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | 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 Tech Algebra and Trig. or Higher | 3 |  |  |  |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 2

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

Semester 3

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

**Graduation Requirements:**

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

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

**Additional Information**

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 114

BRX 110 and BRX 201 = BRX 112

CMM 120 and CMM 122 = CMM 124

CMM 130 and CMM 134 = CMM 134

CMM 210 and CMM 212 = CMM 214

CMM 2301 and CMM 2302 = CMM 230

CMM 220 and CMM222 = CMM 224

CMM 2401 and CMM 2402 = CMM 240

*Reviewed by: Danny Roberts Effective Term: Fall 2021*

*Review Date: 2-10-2021*