[Computerized Manufacturing and Machining - Tool & Die Apprentice](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 Spring semester.

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CMM 150 Shop Theory OR  CMM 110 Fundamentals of Machine Tools A | 2  (3) |  |  |  |  |
| CMM 118 Metrology/Control Charts | 2 |  |  |  |  |
| BRX 110 Basic Blueprint Reading for Machinist | 2 |  |  |  |  |
| CMM 132 CAD/CAM/CNC | 3 |  |  |  |  |
| MAT 116 Technical Mathematics | 3 |  |  |  |  |
| Total Semester Credit Hours | 12 – 13 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CMM 150 Shop Theory OR  CMM 110 Fundamentals of Machine Tools A | 2  (3) |  |  |  |  |
| CMM 118 Metrology/Control Charts | 2 |  |  |  |  |
| BRX 110 Blueprint Reading for Machinist | 2 |  |  |  |  |
| CMM 132 CAD/CAM/CNC | 3 |  |  |  |  |
| MAT 116 Technical Mathematics | 3 |  |  |  |  |
| Total Semester Credit Hours | 11 – 15 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CMM 152 Jigs, Fixtures and Gaging OR  CMM 120 Applied Machining I | 3  (3) |  |  |  |  |
| CMM 130 Manual Programming | 3 |  |  |  |  |
| Total Semester Credit Hours | 6 |  |  |  |  |
| Total Certificate Credit Hours | 29 – 34 |  |  |  |  |

**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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

*Review Date: 2-10-2021*