**FALL 2011** **Machine Tool Technology Diplomas**

**___ Machinist 41-47 credit hours** **___CNC Machinist 56-59 credit hours**

Student Name: _____ Empl ID# _____

***Students enrolled in Machine Tool Technology program must achieve a minimum grade of "C" in each technical course***

## ___Machinist (41-47 credits)

| General Education & Technical Core Courses Required | Hrs | Grade | Semester |
|---|---|---|---|
| Area I = Writing or Oral Communications or Humanities/Heritage/Foreign Language | 3 | | |
| Area 2 = MAT 116 Technical Mathematics or MAT 126 Technical Algebra and Trig. or higher level mathematics course | 3 | | |
| Area 3 = Computer Literacy course or skill demonstrated by competency exam | 0-3 | | |
| Electives (Co-op or Practicum) | 1 | | |
| MTT 110 Fundamentals of Machine Tools A and MTT 112 Fundamentals of Machine Tools B OR MTT 114 Fundamentals of Machine Tools | 7 | | |
| MTT 118 Metrology/Control Charts | 2 | | |
| MTT 120 Applied Machining I and MTT 122 Applied Machining II OR MTT 124 Applied Machining | 6 | | |
| MTT 130 Manual Programming OR MTT 134 Manual Programming/CAD/CAM/CNC OR MTT 138 Introduction to Programming & CNC Machines | 3-6 | | |
| MTT 210 Industrial Machining I and MTT 212 Industrial Machining II OR MTT 214 Industrial Machining | 6 | | |
| MTT 220 Advanced Industrial Machining I and MTT 222 Advanced Industrial Machining II OR MTT 224 Advanced Industrial Machining | 6 | | |
| BRX 110 Basic Blueprint Reading for Machinist and BRX 210 Mechanical Blueprint Reading OR BRX 112 Blueprint Reading for Machinist | 4 | | |

## ___CNC Machinist (56-59 credits)

| General Education & Technical Core Courses Required | Hrs | Grade | Semester |
|---|---|---|---|
| Area I = Writing or Oral Communications or Humanities/Heritage/Foreign Language | 3 | | |
| Area 2 = MAT 116 Technical Mathematics or MAT 126 Technical Algebra and Trig or higher level mathematics course | 3 | | |
| Area 3 = Computer Literacy course or skill demonstrated by competency exam | 0-3 | | |
| Electives (Co-op or Practicum) | 1 | | |
| MTT 110 Fundamentals of Machine Tools A and MTT 112 Fundamentals of Machine Tools B OR MTT 114 Fundamentals of Machine Tools | 7 | | |
| MTT 118 Metrology/Control Charts | 2 | | |
| MTT 120 Applied Machining I and MTT 122 Applied Machining II OR MTT 124 Applied Machining | 6 | | |
| MTT 130 Manual Programming and MTT 132 CAD/CAM/CNC OR MTT 134 Manual Programming/CAD/CAM/CNC OR MTT 138 Introduction to Programming & CNC Machines | 6 | | |
| MTT 210 Industrial Machining I and MTT 212 Industrial Machining II OR MTT 214 Industrial Machining | 6 | | |
| MTT 220 Advanced Industrial Machining I and MTT 222 Advanced Industrial Machining II OR MTT 224 Advanced Industrial Machining | 6 | | |
| MTT 2301 Introduction to Conversational Programming and MTT 2302 Conversational Editing and Subroutines OR MTT 230 Conversational Programming OR MTT 234 CNC Machines & Coding Practices | 6 | | |
| MTT 2401 Introduction to 3-D Code Sequencing & Tool Path Product and MTT 2402 Advanced 3-D Code Sequencing and Macro Systems OR MTT 240 Introduction to 3-D Programming OR MTT 244 Advanced Programming/Setup Practices | 6 | | |
| BRX 110 Basic Blueprint Reading for Machinist and BRX 210 Mechanical Blueprint Reading OR BRX 112 Blueprint Reading for Machinist | 4 | | |

**Program Coordinator: Ronnie Birdsong**

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Madisonville

HIGHER EDUCATION BEGINS HERE

# Machine Tool Technology Diplomas

## ____ Machinist Option (41-47 credits) ___CNC Machinist Option (56-59 credits)

| ***SAMPLE SCHEDULING PLAN - MACHINIST OPTION (41-46 credits) | |
|---|---|
| First Fall Semester Total: 12-15 credits<br><br>MTT 110 & MTT 112<br>Mathematics course BRX 110<br>Computer Literacy (0-3 credits) | Second Fall Semester Total: 16 credits<br><br>MTT 214 MTT 224<br>Writing or Oral Communications or Humanities or Heritage or Foreign Language<br>Cooperative Education or Practicum (1 credit) |
| First Spring Semester Total: 13-16 credits<br><br>MTT 124 MTT 130 or MTT 134 or MTT 138<br>BRX 210 MTT 118 | |
| ***SAMPLE SCHEDULING PLAN - CNC MACHINIST OPTION (56-59 credits) | |
| First Fall Semester Total: 12-15 credits<br><br>MTT 110 & MTT 112<br>Mathematics course BRX 110<br>Computer Literacy (0-3 credits) | Second Fall Semester Total: 15 credits<br><br>MTT 214 MTT 224<br>Writing or Oral Communications or Humanities or Heritage or Foreign Language |
| First Spring Semester Total: 16 credits<br><br>MTT 124 MTT 118<br>MTT 130 & MTT 132 or MTT 134 or MTT 138<br>BRX 210 | Second Spring Semester Total: 13 credits<br><br>MTT 230 MTT 240<br>Cooperative Education or Practicum (1 credit) |

**Program Coordinator's Notes:**

*** Sample schedule only. Student's schedule each semester may vary depending upon the selection of courses to meet technical requirements.

Students may take BRX 110, MTT 114, MTT 118, MTT 124, MTT 130 & MTT 132 or MTT 134 with RDG 030 placement. These classes may be taken concurrently.