

## ***Machine Tool Technology Technical Diploma***

This program prepares individuals to shape metal parts on machines such as lathes, grinders, drip presses, and milling machines. Computer numerical controlled (CNC) machines are also introduced. The program includes making computations for dimensions and cutting feeds and speeds, using precision measuring instruments, laying out parts, and heat treatment of metals.

To receive this diploma, the student must:

- Have a cumulative GPA of 2.00 or better in all credit hours to be used towards the degree.
- Earn a "C" or better in all coursework.
- Complete the coursework listed below.

### **PROGRAM OF STUDY**

#### **First Semester**

	<b>Credit Hours</b>
MTTC 2110    Blueprint Reading	4
MTTC 2120    Introduction to Machine Tools	4
MTTC 2210    Benchwork	4
MTTC 2230    Drill Press	4
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Total Semester Credit Hours	16

#### **Second Semester**

	<b>Credit Hours</b>
MTTC 2310    Basic Lathe	4
MTTC 2320    Intermediate Lathe	3
MTTC 2331    Advanced Lathe	4
MTTC 2410    Basic Mill	4
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Total Semester Credit Hours	15

#### **Third Semester**

	<b>Credit Hours</b>
MTTC 2420    Intermediate Mill	3
MTTC 2431    Advanced Mill	4
MTTC 2510    Precision Grinding	3
MTTC 2710    Computer Numerical Control	4
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Total Semester Credit Hours	14
TD: Industrial Machine Shop Technician (Total Hours)	45

#### **Credentials Included:**

MTTC 2110    Blueprint Reading	4
MTTC 2120    Introduction to Machine Tools	4
MTTC 2230    Drill Press	4
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TCA: Drill Press Operator	12
MTTC 2110    Blueprint Reading	4
MTTC 2120    Introduction to Machine Tools	4
MTTC 2310    Basic Lathe	4
MTTC 2320    Intermediate Lathe	3
MTTC 2331    Advanced Lathe	4
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CTS: Lathe Operator	19

MTTC 2110	Blueprint Reading	4
MTTC 2120	Introduction to Machine Tools	4
MTTC 2410	Basic Mill	4
MTTC 2420	Intermediate Mill	3
MTTC 2431	Advanced Mill	4
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	CTS: Mill Operator	19
MTTC 2110	Blueprint Reading	4
MTTC 2120	Introduction to Machine Tools	4
MTTC 2310	Basic Lathe	4
MTTC 2410	Basic Mill	4
MTTC 2710	Computer Numerical Control	4
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	CTS: CNC Operator	20

For more information, contact the Division of Technical Education at (225) 359-9201.

Course descriptions can be found in the BRCC College Catalog at [www.mybrcc.edu](http://www.mybrcc.edu)