

2018-2019 TTC Catalog - Machine Tool Technology (MTT)

MTT 001 - Machine Tool Technology Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** 0

Indicates credit given for machine tool technology course work transferred from another college for which there is no equivalent course at TTC.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 101 - Introduction to Machine Tool

Lec: 0.5 **Lab:** 4.5 **Credit:** 2.0

This course covers the basics in measuring tools, layout tools and bench tools; and basic operations of lathes, mills and drill presses.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 111 - Machine Tool Theory and Practice I

Lec: 1.0 **Lab:** 12.0 **Credit:** 5.0

This course is an introduction to the basic operation of machine shop equipment.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 112 - Machine Tool Theory and Practice II

Lec: 1.0 **Lab:** 12.0 **Credit:** 5.0

This course is a combination of the basic theory and operation of machine shop equipment.

Prerequisite

MTT 111

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 143 - Precision Measurements

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

This course is a study of precision measuring instruments.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 145 - Machining of Metals

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course covers theoretical and practical training in the physical properties of metals, their required stock removal/speeds/feeds and depths of cut, and finish requirements.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 250 - Principles of CNC

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course is an introduction to the coding used in CNC programming.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 251 - CNC Operations

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

This course is a study of CNC machine controls, setting tools, and machine limits and capabilities.

Corequisite

MTT 250

and

MTT 253

or

Departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 253 - CNC Programming and Operations

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course is a study of the planning, programming, selecting, tooling, determining speeds and feeds, setting, operating and testing of CNC programs on CNC machines.

Corequisite

MTT 250

or

Advisor approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance
