

Piedmont Technical College Course Syllabus

COURSE INFORMATION

Course Prefix/Number: MTT 122

Title: Machine Tool Technology Practice I

Responsible Division: Industrial/Engineering

Last Day to Withdraw from this Course: For the last date to withdraw from this course, consult the current *Student Calendar*.

Course Description:

For course, credit hour, pre-requisite(s) and co-requisite(s) information, visit the Detailed Course Information page: www.ptc.edu/courses/mtt122.

Textbook and Other Materials:

For textbook information and additional required and/or supplemental materials, visit the [college bookstore](http://www.ptc.edu/bookstore) (www.ptc.edu/bookstore).

Proctored Examinations:

Proctored examinations for distance learning courses taken at non-PTC campuses may require a proctoring fee for each exam taken.

COURSE POLICIES

Course policies are available online through the *Academic Catalog* and *Student Handbook*. Visit the [Course Policies page](http://www.ptc.edu/syllabus/policies) (www.ptc.edu/syllabus/policies) for a detailed list of important policies and more information.

GRADE POLICY

Detailed grading policy information can be found on the [Grading Policy webpage](http://www.ptc.edu/grading-policy) (http://www.ptc.edu/grading-policy). Final grade appeal information is available in the [Academic Catalog](http://www.ptc.edu/catalog/) (http://www.ptc.edu/catalog/).

ACCOMMODATIONS

Accommodations for ADA:

Information is available on the [Student Disability Services webpage](http://www.ptc.edu/ada) (<http://www.ptc.edu/ada>).

RATIONALE

Why do I need this course?

All manufacturing processes depend upon machinists/tool and die makers to build or repair machinery or tooling. The quality of the final manufactured items will be determined by the precision and care given to the equipment or machinery that is used to produce them. This requires the machinist/tool and die maker to do the job professionally and skillfully with personal pride in the job they are tasked to perform.

PROGRAM INFORMATION

For program information including required courses, program learning outcomes, gainful employment information and advisement information, refer to the Academic Program webpage. Go to [Academics](http://www.ptc.edu/academics) (<http://www.ptc.edu/academics>), select your program, and then select Credentials Offered.

COURSE STUDENT LEARNING OUTCOMES

Upon successful completion of this course and/or clinical, each student will be able to:

- Operate engine lathe, drill press, cut-off saws and tooling associated with these machines.
- Follow written and oral directions while using basic blueprints and sketches.
- Work safely and follow correct procedures during the operation of machine tools.
- Demonstrate the use non-precision and precision measuring tools during the production of hands-on projects.
- Demonstrate the proper use of hand-tools.

GENERAL EDUCATION COMPETENCIES

Piedmont Technical College General Education Competencies for All Graduates:

This course may address one or more of the following General Education Competencies (assessment will be stated when applicable):

Communicate effectively.

Assessment:

Explain the process used to complete assigned project tasks.

Apply mathematical skills appropriate to an occupation.

Assessment:

Select proper speeds and feeds using machine based formulas to correctly set up machinery.

Employ effective processes for resolving problems and making decisions.

Assessment:

Analyze the best practices to complete assigned projects.

Demonstrate the basic computer skills necessary to function in a technological world.

Assessment:

N/A

To validate proficiency in the general education competencies, students in some programs will be tested using Work Keys.