

MTTN122N : Machine Tool Processes and Theory II

This course is a continuation of [MTTN111N](#) with an emphasis on advanced lathe and mill operations on more complex parts and assemblies. Conversational programming on CNC machines is introduced on both lathe and mill. Basic Geometric Dimensioning and Tolerancing is taught as part of expanding the understanding and interpretation of modern blueprints. Projects will include assemblies of milled and turned parts as well as heat treated and surface ground parts. Instruction will be given in proper wheel selection and grinding techniques. Students will complete several individual projects that utilize all these machining methods. Mechanical concepts such as gears, simple machines, and machine components will be discussed. A student must earn a grade of 'C' or better to achieve a passing grade in this course.

Class Hours 3

Lab Hours 9 **Credits** 6

Prerequisites

[MTTN111N](#), A grade of 'C' or better is required in MTTN111N.