

**NORTHEASTERN TECHNICAL COLLEGE  
COURSE OUTLINE**

<b>COURSE:</b> MTT	<b>PREFIX NO.</b> 122	<b>EFFECTIVE DATE</b> SPRING 2007	<b>NEXT REVIEW DATE</b> SPRING 2008		
<b>TITLE:</b> MACHINE TOOL PRACTICE I		<b>CREDITS</b> 4	<b>CONTACTS</b>		
			<b>CLASS</b>	<b>LAB</b>	<b>TOTAL</b>
			0	12	4

**PREREQUISITE:** MTT 121

**DESCRIPTION:** LEVEL 1: This course covers practical experiences using the principles in Machine Tool Theory I.

LEVEL II: In this course, the student will use basic hand tools, drill presses, sharpen drills and lathe tool bits, saw, file, drill and tap. The student will make parts using lathes, mills, surface grinders, layout work, and precision measuring tools.

**TEXTBOOK(S) OR ALTERNATIVE:** Machining Fundamentals, John R. Walker

**MATERIALS (specifying those to be purchased by student):**

Safety Glasses and Refer to tool list

**COLLATERAL READING:** Machinist Ready Reference Machinery's Handbook 27th Edition

**CLASS MANAGEMENT ACTIVITIES (Attendance, tardies, testing, etc.):**

**Academic Dishonesty:** Students are expected to do their own work. Please refer to the NETC Student Code and Grievance Procedure for a definition of academic dishonesty and an outline of the disciplinary action that may result therefrom.

**Attendance:** The student must attend 90% of classes.

**Tardies:** Three tardies will constitute one absence.

**Disabilities Statement:** Students with disabilities are encouraged to contact the Vice President for Student Services to discuss needs or concerns as they pursue an academic program and participate in campus life. The Vice President for Student Services will provide guidance regarding official documentation of disabilities and/or accommodation of needs. (See College Catalog).

**Projects:** All projects are to be completed by a date given each semester by the instructor. Projects are to be completed at Northeastern Technical College during allocated lab times only. There is a total of eleven projects required in MTT-122; (1) Turning and Threading project; (2) Punch Set; (3) Machine Shop Problem; (4) Centerdrill Block; (5) Reamed and Counterbored Block; (6) Squared Tap Wrench; (7) Die Stock; (8) Hammer; and (9) Depth Gage.

**RESOURCES (Audio-visual materials, tools/equipment):**

**COURSE TOPICAL OUTLINE** (List topics and sub-topics of course) and  
**Calendar or approximate length of time devoted to topic.**

The student will perform the sequence of operations required for each project based on the availability of machines.

**OBJECTIVES OF COURSE:** To successfully complete this course the student will make projects to the Blue Print specifications.

**INSTRUCTIONAL METHODS TO COMPLETE OBJECTIVES:**  
Demonstrations on machine tools

**EVALUATIVE METHODS TO APPRAISE OBJECTIVES:**

1. Inspection of parts
2. Observation of work and safety habits
3. Observation of care of machines and tools

**GRADING:** For each 0.001" inaccuracy - one (1) point will be deducted from the project grade.

100 - 93	=	A
92 - 85	=	B
84 - 77	=	C
76 - 69	=	D
68 - BELOW	=	F

**DEPARTMENT RULES:**

1. The student must attend 90% of classes. The student will be dropped from the class after 10% has been reached. Three tardies constitutes one absence. If you are late more than 15 minutes it will be counted as one absence.
2. The instructor will announce lab clean-up date each semester. All students have to attend or receive an "I" grade.
3. Daily lab clean-up and machine tool repair are course requirements.
4. There is no extra credit given for lab clean-up or machine tool repair or additional work.
5. Cheating is not permitted; if caught you will be dropped from the course.
6. Dress must be appropriate for machine tool work and not for sports events. If dress is not appropriate the student will not be allowed to work in the lab and will be marked absent. (**No Shorts, open toed shoes or baggy clothing!**)
7. Eye safety glasses are to be worn at all times in the lab. The student will be warned twice about the wearing of the glasses on the 3<sup>rd</sup> time will be asked to leave the class and will be marked absent that day and every day that he or she is told about the glasses.
8. Students must wear Student ID at all times when on campus.