COURSE: MTT
PREFIX NO. 122
EFFECTIVE DATE SPRING 2014
NEXT REVIEW DATE SPRING 2016

TITLE: MACHINE TOOL PRACTICE I
CREDITS 4
CONTACTS CLASS - LAB - TOTAL 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: Precision Machining Technology, Second Edition By: Peter Hoffman

MATERIALS (specifying those to be purchased by student): Safety Glasses and Refer to tool list


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.

Student ID: It is mandatory that every student wear his/her student ID while on the Cheraw campus.

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)

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.
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; (8) Hammer; and (9) Depth Gage.

STUDENT LEARNING OUTCOMES: 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 (For example – Cleaning machines and putting tools back in their rightful place after use)
4. Class participation
5. Extra work (written or practical) may be assigned by the instructor and counted as a grade.

GRADING FOR PROJECTS: For each 0.001” inaccuracy – one (1) point will be deducted from the project grade.

GRADING SCALE:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>100 - 93</td>
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<tr>
<td>B</td>
<td>92 - 85</td>
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<td>C</td>
<td>84 - 77</td>
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<td>D</td>
<td>76 - 69</td>
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<td>F</td>
<td>68 - BELOW</td>
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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 3rd 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.

**PARTICIPATION:** Evaluation of your participation will be based on the following:

(100-80) Comes to class prepared; voluntarily and enthusiastically participates in classroom activities, presentations, and clean up. Stimulates creativity and demonstrates excellent completion on in-class assignments and has good attendance. Must demonstrate respect to instructor and fellow students.

(80-60) Comes to class prepared; usually participates in classroom activities, presentation, and clean up. Demonstrates satisfactory completion of in-class assignments. Must have above average attendance, a positive attitude, and demonstrate respect for instructor and fellow students.

(60-40) Usually comes to class prepared; occasionally participates in classroom activities, presentations, and clean up. Completes most in-class assignments. Has average attendance, positive attitude, and demonstrates lack of respect for instructor and fellow students.

(20-0) Seldom comes to class prepared. Uncooperative and disruptive to class discussions or other learning activities. Has poor attendance and shows disrespect for instructors and fellow students. Avoid class clean up and/or has negative attitude.