

North Central Michigan College

NCMC MASTER COURSE SYLLABUS FOR YEARS 2001-2003

DIVISION/AREA: Business and Technology

DEPARTMENT:

DIVISION DIRECTOR: Robert J. Marsh, Ph.D., P.E.

ORIGINATOR:

DEAN OF INSTRUCTION: Timothy Dykstra, Ph.D.

TOTAL HOURS OF INSTRUCTION: 0.75 LECTURE: 0.75 LAB: 0

TOTAL CONTACT HOURS: 13.2

COURSE NUMBER: TDT 119

CREDIT HOURS: 0.75

COURSE TITLE: Geometric Dimensioning & Tolerancing

TRANSFERABLE

YES:

NO: X

TO:

PREREQUISITE(S)/COREQUISITE(S)/ADVISORY: TDT 110, TDT 111.

CATALOG DESCRIPTION:

An introduction to the geometric dimensioning and tolerancing method of accurately describing parts. The symbols, rules, definitions, conventions, and design philosophy are topics covered. Sheet metal prints, threads, machining processes, callouts, gears, splines and serrations are also covered.

GENERAL EDUCATION OUTCOMES:

- Independently acquire knowledge
 - Select and use mathematical tools for problem solving and decision making
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COURSE OBJECTIVES & OUTCOMES:

- Gain an understanding of the terminology of GD&T
 - Be able to apply GD&T to a wide variety of applications
 - Gain an understanding of the linkages between GD&T and blueprint reading
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METHODS OF INSTRUCTION:

Lecture and hands on drawing/drafting exercises; homework assignments.

Review Tests & Exercises: The Review Test & Exercise at the end of each Unit has a combined possible score of 100 points per Unit. The scores will be used to represent the portion of the grade indicated above in the Evaluation Criteria section. You will turn a copy of the Review Tests & Exercises (provided by your instructor) at the beginning of the class it is due at. It must be turned in at that time. It is OK to send it with a friend if you cannot make it to a class. You might even catch the instructor prior to the class to turn it in if you cannot make it to a class.

Diagnostic Test: _____ This is like a final exam. Every effort must be made on your part to take the test during the scheduled time. In the event that it is not possible to do so, you will be expected to make an appointment to take the test prior to the scheduled time. If this is not done, you have forfeited the opportunity to take the test and will therefore fail the course.

METHODS OF EVALUATION:

Review Tests & Exercises.....40%
Diagnostic Test60%

REQUIRED TEXTS: Geometric Dimensioning & Tolerancing, Participant's Guide by Technicomp, 6th printing.

OPTIONAL SUPPLEMENTARY MATERIALS:

Reasonable accommodations may be provided for students with documented physical, sensory, cognitive, systemic, and/or psychiatric disabilities. Please contact the Education Opportunity Program (EOP) at (231) 348-6687 to arrange services for this course.

TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:

Week	Chapter/Units	Topic
1	1, 2	Introduction Projected figures
2	3	Line drawings Two dimensional layouts Projected figures

3	4	Projected figures Dimensioning details Adjusting tolerances
4	Review- all	Advanced tolerancing Interference fits Projected figures Exam

APPROVED FOR ADOPTION BY THE CRD/AP COMMITTEE ON _____