COURSE INFORMATION

COURSE PREFIX/NO: **EGT 128**
COURSE TITLE: **Machine Tool Print Layout**
LEC HRS/WK: 2.0
LAB HRS/WK: 0.0
CREDIT HRS/SEMESTER: 2.0

DL ATTENDANCE/VA STATEMENT
TEXTBOOK INFORMATION

COURSE DESCRIPTION:

This course covers print layout, projection, and dimensioning for the machine tool trades.

COURSE COMPETENCIES:

Upon successful completion of this course, the student should be competent to perform the following tasks:

- Identify lines, symbols, views, dimensions, and tolerances
- Translate title block information
- Apply mathematics to determine lengths, widths, heights, differences, products, and sums
- Make freehand sketches and orthographic drawings of objects, showing necessary views.

MINIMAL STANDARDS/PERFORMANCE OBJECTIVES:

A. Given a worksheet, the student will identify lines, symbols, and views with 70% accuracy
B. Given a sample title, the student will translate information provided on a question and answer sheet with 70% accuracy.
C. Given a blueprint of an object, the student will identify the views, via either oral or written tests, with 70% accuracy.
D. Given blueprints shown in the textbook, the student will identify unilateral and bilateral dimensions, via either oral or written tests, with 70% accuracy.
E. Given assigned exercises, the student will compute, with at least 70% accuracy, lengths, widths, heights, differences, products, and sums.
F. Given an object, the student will make a freehand orthographic sketch to meet given criteria with 70% accuracy.
G. Given an object, the student will make a pictorial drawing to meet given criteria with 70% accuracy.
H. Given a technical drawing, the student will determine the amounts of tolerance with a minimum of 70% accuracy on the worksheet.

COURSE REQUIREMENTS:

Students are responsible for attaining competencies through completion of the following course requirements:

ATTENDANCE

Students will be bound by the policies stated in the York Technical College Student Handbook. Students must attend 80% of the hours assigned the class for a semester to receive credit for the course.

In case a student does miss a class, the student is responsible for obtaining the material that was covered during the absence.

If a student is aware that a class will be missed, then the student should notify the instructor at the earliest possible date.

If a student misses a test because of illness or urgent emergency, it is the responsibility of the student:

Notify the instructor prior to the class period, or at the earliest possible date. At that time a new date for a make up test can be scheduled.

Students with unexcused absences during tests will be allowed to make up a test at the discretion of the instructor. The student has the burden to be sure that some arrangement was made with the instructor for taking a make up test.

PARTICIPATION IN CLASS DISCUSSION:

COMPLETING ASSIGNED HOMEWORK, DRAWINGS AND TESTS

ACADEMIC HONESTY:

"York Technical College adheres to the South Carolina TECH Student Code, approved by the State Board for Technical and Comprehensive Education March 13, 1974 (revised April 25, 1984). Copies of this code are available in the Library and from Student Services.

...Any student caught cheating or involved in any other academic dishonesty will be given a grade of zero and will be subject to further disciplinary action.

EVALUATION CRITERIA/GRADING:

The grading scale is as follows:

Grade Points

A 90 - 100
B 80 - 89
C 70 - 79
D 60 - 69
F 0 - 59

Evaluation Method:

Tests (minimum of 3) 100%

ENTRY LEVEL SKILLS:
It is recommended that the student entering this course have an appropriate understanding of shop math. Mechanical aptitude and an interest in industrial mechanics is desirable.

PREREQUISITES:
None

CO-REQUISITES:
None

TOPIC/CONTENT OUTLINE:

A. Principles of Blueprint Reading
B. Necessary Views
C. Dimensions and Notes
D. Metric System
E. Sections
F. Welding Drawings
G. Sketching Lines and Basic Forms

METHODS OF INSTRUCTION:

The instructor will discuss the principles introduced in each chapter. The instructor will demonstrate progressive skills in blueprint reading and sketching to the student using chalkboard examples, and slides shown on a screen.