

COURSE INFORMATION

COURSE PREFIX/NO: **EGT 115**

COURSE TITLE: **Engineering Graphics II**

LEC HRS/WK: 2.0

LAB HRS/WK: 6.0

CREDIT HRS/SEMESTER: 4.0

DL ATTENDANCE/VA STATEMENT
TEXTBOOK INFORMATION

COURSE DESCRIPTION:

This course in engineering graphics science includes additional drawing techniques for industrial applications

COURSE COMPETENCIES:

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

Module 1 – Auxiliary Views

- Identify drawings that require auxiliary views
- Demonstrate an understanding of primary and secondary auxiliary views

Module 2 – Section Views

- Identify drawings that require sections views
- Demonstrate an understanding of full, half, aligned, removed, revolved section views

Module 3 – Special Fields of Drafting

- Demonstrate an understanding of the various types of drawings encountered in engineering technology, such as piping drawings, welding symbols, and /or threaded fasteners

Module 4 – Detail and Assembly Drawings

- Demonstrate an understanding of the design drawing process
- Complete a set of design drawings including details and assembly drawings.

EVALUATION STRATEGIES/GRADING:

Given instructions on basic drawing procedures and AutoCAD commands the student will produce drawings involving auxiliary views using AutoCAD software. The average of these grades shall be no less than 60%.

Given instructions on basic drawing procedures and AutoCAD commands the student will produce drawings involving section views using AutoCAD software. The average of these grades shall be no less than 60%.

Given instructions on basic drawing procedures and AutoCAD commands the student will produce a variety of specialty drawings which may include piping schematics, American Welding Society standard symbols, and threaded fasteners. These drawings will be created using AutoCAD software. The average of these grades shall be no less than 60%.

Given instruction on basic drawing procedures and AutoCAD commands the student will demonstrate an understanding of these various procedures by completing a minimum of two written tests. The average of these grades shall be no less than 60%.

The student will demonstrate an understanding of all concepts presented in this course by completing details and assembly drawings with a minimum accuracy of 60%.

ATTENDANCE

The College attendance policy stated in the College handbook will be honored.

ACADEMIC HONESTY:

Students are expected to adhere to the College policy regarding student conduct as stated in the College handbook.

ASSIGNMENTS:

Students are expected to complete all assignments and any supplementary exercises designated by the instructor.

Text Book:

Students are expected to purchase the required textbook for this course.

EVALUATION CRITERIA/GRADING:

The grading scale will be the standard for York Technical College:

Grade Points

A 90 - 100

B 80 - 89

C 70 - 79

D 60 - 69

F 0 - 59

Evaluation Method

Module Test 25%

Class Assignments 50%

Working Drawings and Projects 25%

ENTRY LEVEL SKILLS:

Knowledge of the fundamental principles of drafting and a current release of AutoCAD is required. It is recommended that the student have a basic math skills background in arithmetic operations with decimals and fractions. Some background in geometry and trigonometry is very helpful but not required.

PREREQUISITES: EGT 110

CO-REQUISITES: None

TOPIC/CONTENT OUTLINE:

- I. Fundamental Drafting Practices
 - A. Auxiliary Views
 - B. Section Views

- II. Design and Working Drawings
 - A. Special Fields of Drafting
 - B. Detail and Assembly Drawings

METHODS OF INSTRUCTION:

This is a lab type course in which the student practices and develops techniques by completing drawings and study assignments. There are no regularly scheduled lecture hours. Adequate lab time will, however, be devoted to lecture to convey the required basic information.