

SYLLABUS

DIVISION: Business & Engineering Technologies

CURRICULA IN WHICH COURSE IS TAUGHT: Drafting and Design

COURSE NUMBER AND TITLE: DRF 114 Drafting I

CREDIT HOURS: 3 HOURS/WK LEC: 1 HOURS/WK LAB: 6 LEC/LAB COMB: 7

I. CATALOG DESCRIPTION: DRF 114 Drafting I (3 cr.) This course focuses on instruments, measurement, lettering and dimensioning, geometric construction, orthographic projection, basic sections and conventions.

II. RELATIONSHIP OF COURSE TO CURRICULA OBJECTIVES:

This course is a basic beginning course in drafting principles to be used throughout the student's course work in drafting and design. It will address the following program outcomes:

- Students will design, graphically represent, and fabricate a prototype of a design project using drafting equipment.

III. REQUIRED BACKGROUND/PREREQUISITES:

- MTE 2

IV. COURSE CONTENT:

- Equipment and its care and use
- Views and lines
- Lettering
- Measurement
- Projection
- Dimensioning
- Sections and conventions

V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE

<input checked="" type="checkbox"/> Communications	<input checked="" type="checkbox"/> Critical Thinking
<input type="checkbox"/> Cultural & Social Understanding	<input checked="" type="checkbox"/> Information Literacy
<input type="checkbox"/> Personal Development	<input checked="" type="checkbox"/> Quantitative Reasoning
<input type="checkbox"/> Scientific Reasoning	

VI. LEARNER OUTCOMES**VII. EVALUATION**

Learner outcome <ul style="list-style-type: none">• Demonstrate a basic knowledge of freehand sketching techniques.	Evaluation method Draw sketches
Learner outcome <ul style="list-style-type: none">• Demonstrate ability to letter neatly and properly.	Evaluation method In-class drawings including lettering
Learner outcome <ul style="list-style-type: none">• Demonstrate ability to measure accurately.	Evaluation method In-class drawings
Learner outcome <ul style="list-style-type: none">• Demonstrate the ability to place orthographic views in their proper place and define an object's shape by creating views using line projection.	Evaluation method In class drawings Written/performance test
Learner outcome <ul style="list-style-type: none">• Define an object's size with the proper placement and use of dimensions and notes	Evaluation method In-class drawings Written/performance test
Learner outcome <ul style="list-style-type: none">• Must be able to section machine parts to reveal internal detail and add appropriate cross hatch lines.	Evaluation method In-class drawings Written/performance test
Learner outcome <ul style="list-style-type: none">• Demonstrate proficiency in developing and graphically representing an original design using traditional drafting methods.	Evaluation method In-class design project In class assignments Written test

NOTE: The syllabus and course outline are subject to change at the discretion of the professor.