

Course Outline

Winter 2005

Division: Business, Engineering & Information Technology

Program/Dept: Architectural Engineering Drafting

Course Number: TDR 113 **Credits:** 5 **Variable:**

Course Title: Basic Drafting

Inst. Intent: 21 Vocational Preparatory **CIP:** 15.1304

Fee: No **Type:**

Degree/Certificate Requirement: Yes

Name of Degree/ Architectural Engineering Drafting

Certificate Requirements: Associate of Applied Science Degree

Distribution Requirement for AA/AAS: Yes

Transfer Status to 4-year institution: No

If yes, please describe:

Course Length: Based on 11 wks/qtr. **Class Size:** 24

Course Contact Hours: 55

Lecture: 55 **Lab:** **Clinical:** **Other:**

Prerequisite: No **If yes, please describe:**

Required Placement Tests: No **If yes, please describe:**

Comments:

Course Description:

Designed to acquaint students with fundamentals of hand drafting using architectural /engineering plans and details as projects. Focus will be placed on the use of equipment, linework, hand lettering, orthographic projections, isometrics and basic sheet layout. After introduction of basics, student may select discipline options including structures for construction/design or basic mechanical drawings. Open lab.

Course Outcomes/Learning Objectives:

1. To develop understanding in the use of traditional drafting equipment.
2. To develop basic hand drafting skills related to chosen disciplines.
3. To develop a comprehension of drawing projections.

NSCC General Education Outcomes and/or Related Instructional Outcomes (for technical courses) Met by Course: (list each outcome):

- Outcome 4E To recognize that accurate and complete information is the basis for intelligent decision making.
- Outcome 1A To develop the attitudes that support problem solving and the reasoning process.
- Outcome 9 Understand artistic expression as an essential human and cultural phenomenon.

Topical Outline and/or Major Divisions:

- I Introduction to TDR 113
 - A. Course context
 - B. Class procedure
 - C. Course objectives
- II Introduction to Basic Drafting Techniques
 - A. Use of drafting equipment
 - B. Lettering, linework
 - C. Scaling
- III Introduction to Drawing Projections
 - A. Orthographic relationships
 - B. Construction problems
 - C. Isometric constructions
- IV Introduction to Drawing Disciplines
 - A. Structural/architectural
 - B. Mechanical
- V. Evaluations

Course Requirements (Expectation of Student): To be determined by instructor.

Methods of Assessment/Evaluation: To be determined by instructor.

Required Text(s) and/or Materials: None

Supplemental Text(s) and/or Materials: Graphic Guide to Frame Construction, R. Thallon, the Taunton Press ISBN 0-942391-66-7

Outline Developed by: James Wall

Date: 2/97

Revised by: James Wall

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