Course Outline

Winter 2005

Division: Business, Engineering & Information Technology

Program/Dept: Architectural Engineering Drafting

Course Number: TDR 259 **Credits:** 5.0 **Variable:**

Course Title: **Contract Drawing Preparation II**

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

Fee: Yes **Type:** CL - Computer Lab Fee

Degree/Certificate Requirement: Yes
Name of Degree/ Certificate Requirements: Architectural Engineering Drafting
Associate of Applied Science Degree

Distribution Requirement for AA/AAS: Yes

Transfer Status to 4-year institution: No.

If yes, please describe: (May transfer to certain schools w/ special transfer agreements

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

Course Contact Hours: 55 hrs.
Lecture: 55 **Lab:** **Clinical:** **Other:**

Prerequisite: **If yes, please describe:** Second year standing or permission of instructor

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

Comments:

Course Description:
A course similar to TDR 258, Contract Drawing Preparation I, with emphasis on structural steel and concrete structures and the inclusion of site work. Drawings will be prepared using CAD.

Course Outcomes/Learning Objectives:

1. To familiarize the student with the procedures followed in the preparation of contract documents for a building.
2. To develop advanced skills in construction drafting.
3. A study of codes.
4. Study of specifications.
5. to improve an advance previously acquired drafting skills.
6. Various specific objectives based on class needs.

NSCC General Education Outcomes and/or Related Instructional Outcomes Met by Course:

Outcome 4. Demonstrate the ability to access, evaluate, and apply information from a variety of sources and a variety of contexts.

Outcome 5. Demonstrate computer competency appropriate to general education and occupational goals.

Outcome 6. Demonstrate ability work and communicate effectively in groups.

Topical Outline and/or Major Divisions:

I Introduction to TDR 259
- A. Course contents
- B. Class procedures

II Basic AutoCAD Review
- A. Drawing commands
- B. Scaling
- C. Layering
- D. Text and dimension styles
- E. File transfers
- F. Paper space
- G. Plotting

III. Presentation of Drawing Projects
- A. Structured vs. architectural
- B. Graphic conventions, material presentation
- C. Plan developments
- D. Sections and details
- E. Sheet Layout

IV. Material Assemblies
- A. Concrete construction
  1. Framing systems/plans
  2. Beam and slab schedules
  3. Column conditions
  4. Building sections and elevations
- B. Structural Steel Construction
  1. Framing plans
  2. Typical detail development
     a. Steel to steel
     b. Steel to concrete
  3. Lateral bracing systems

IV. Material Assemblies (continued)

C. Site work

1. Contour drawing
2. Retaining systems
3. Site drainage
4. Road layout

V. Evaluation

Course Requirements (Expectation of Students):
Performance on assignments, projects, and tests.

Methods of Assessment/Evaluation:
Grade will be based on accumulated points from assignments, projects, and tests.

Required Text(s) and/or Materials:
None

Supplemental Text(s) and/or Materials:
As selected by Instructor.

Outline Developed by: Mark V. Hillman **Date:** 4/89

Revised by: James Wall **Date:** 3/94, 2/02, 5/04