

Course Outline**Winter 2005**

Division: Business, Engineering & Information Technology			
Program/Dept: Architectural Engineering Drafting			
Course Number:	TDR 258	Credits:	5 Variable:
Course Title: Contract Drawing Preparation I			
Inst. Intent:	21 Vocational Preparatory	CIP:	15.1304
	Fee: Yes	Type:	CL - Computer Lab Fee

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:	(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:

Preparation of structural, architectural and civil drawings with emphasis on wood frame structures and light commercial buildings. Building codes, specifications and building department requirements for obtaining building permit will be discussed in the development of the drawings. Drawings to be prepared using CAD. Open lab.

Course Outcomes/Learning Objectives:

1. To familiarize students with the basic procedures followed in the preparation of contract documents for a building.
2. To develop the skills of conventional ink, graphite, and CAD systems while producing sets of working drawings from sketches, preliminaries and other instructions made by the architect or the engineer.
3. A preliminary study of specifications.
4. The ability to read and understand working drawings made by others.
5. To improve and advance previously acquired general drafting and lettering skills.

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 to work and communicate effectively in groups.

Topical Outline and/or Major Divisions:**I Introduction to TDR 258**

- A. Course content
- 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. Structural vs. architectural
- B. Graphic conventions, material presentation
- C. Plan developments
- D. Sections and details
- E. Sheet Layout

IV. Material Assemblies

- A. Wood frame construction
 1. Reinforced concrete foundations
 2. Floor, roof and wall framing
 3. Stair drawings
 4. Building sections and elevation
- B. Light commercial construction
 1. Reinforced concrete and masonry
 2. Miscellaneous steel items
 3. Roof framing options
 4. Building sections and elevation

V. Evaluations**Course Requirements (Expectation of Students):**

Attendance, assignments, and quizzes as specified by the instructor.

Methods of Assessment/Evaluation:

Point distribution; points for exams, attendance, etc.

Required Text(s) and/or Materials: Text as determined by instructor

AutoCAD 2002, No Experience Required, D. Frey, Sybex ISBN 0-7821-4016-5

Supplemental Text(s) and/or Materials:

As selected by Instructor.

Outline Developed by: Loren Kangas

Date: 3/94

Revised by: James Wall

Date: 2/97, 5/04