

COURSE OUTLINE

Revision: Loc Nguyen – March, 2009

DEPARTMENT:	Engineering & Engineering Technology
CURRICULUM:	Computer-Aided Drafting/Design Technology
COURSE TITLE:	Design Project 1
COURSE NUMBER:	TDR 237
TYPE OF COURSE:	Vocational Preparatory/
COURSE LENGTH:	1 quarter
CREDIT HOURS:	2
LECTURE HOURS:	11
LAB HOURS:	22
CLASS SIZE:	24
PREREQUISITES:	TDR 236 (Design Project Considerations)

COURSE DESCRIPTION:

Practical application course utilizing the student's previously acquired skills. Concentration on the aspects of a major design project.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Read and translate technical data relative to geometry, fabrication and assembly/installation requirements into a graphical form easily understood by others with similar technical understanding.
2. Computation - Use basic mathematical operations as required to define geometry and manufacture parameters.
3. Critical Thinking and Problem Solving - Organize and evaluate technical data. Select and apply appropriate spatial relationship principles to determine problem solution.

STUDENT LEARNING OUTCOMES ADDRESSED (cont.):

4. Technology - Select and use appropriate technological tools to create technical graphics.
5. Personal Responsibility - Value and take pride in one's own skills and work, and manage personal time to meet required schedules.
6. Information Literacy - Access, evaluate and apply information from a variety of technical resources.

PROGRAM OUTCOMES ADDRESSED

- 1 Ability to apply knowledge of mathematics and scientific principles to technical engineering/drafting problems.
- 2 Ability to analyze and interpret data.
- 3 Ability to think critically in evaluating information, solving problems, and making decisions.
- 4 Ability to function on diverse, multi-disciplinary teams.
- 5 Ability to access and evaluate information from a variety of sources, including the Internet.
- 6 Understand professional and ethical responsibility.
- 7 Ability to communicate effectively with written, oral, and visual means.
- 8 Recognize the need for and ability to engage in life-long learning.
- 9 Ability to use modern technical engineering techniques, skills, and technology, including computing tools necessary for technical engineering/drafting practice.

GENERAL COURSE OBJECTIVES:

Upon successful completion of this course the student will have satisfactorily completed the objectives negotiated in the course plan established at the beginning of the quarter. The plan will include written measurable objectives, proposed tasks, a schedule of activities, and measurement standards.

TOPICAL OUTLINE:

A topical outline of material to be covered is negotiated between the instructor and the student. The agreement is put into writing and is signed by both the student and the instructor. This signed agreement becomes a contract between the student and South Seattle Community College and is the basis for grading.

REVISED BY: Loc Nguyen
DATE: March 31, 2009