



DRFT 2972

Division: Career and Technical Education

Department: Drafting Technology

Course: DRFT 2972

Title: Special Commercial Architecture Projects

Catalog Description:

This is an advanced course in commercial architecture layout and design using AutoCAD with standard libraries. Students, with approval, may design and layout commercial floor plan projects of their choice.

General Education Requirements: N/A

Semesters Offered: TBA

Credit/Time Requirement: Credit: .5; Lecture: 1; Lab: 2

Clock/Hour Requirements: 45

Offered for Non-Credit: Yes

Credit/Clock Comments: This is a variable credit course (0.5-2:0-1:2-6).

Prerequisites: DRFT 2150 and either DRFT 1310 or DRFT 1312

Corequisites: None

Justification:

This course is approved by the program advisory committee and corresponds to UVSC course DT 2740 and SLCC course ARCH 2990.

Student Learning Outcomes:

Upon successful completion of this course, students will be able to:

- understand advanced commercial architecture design and layout techniques
- apply advanced AutoCAD techniques in completing a design
- understand advanced principles for completion of commercial design and cost specifications
- apply advanced design to complete approved sets of plans for commercial structures.

Content:

Course objectives will be achieved by providing students with instructional and hands-on experiences in the following areas:

- advanced commercial design and layout

- application of AutoCAD in design and listing of important construction information
- specifications for commercial structures
- coordination of designs and layouts for project construction
- completion of commercial layouts for final construction.

General Education Outcomes:

4) Retrieve, evaluate, interpret, and deliver information through a variety of traditional and electronic media.

Students will research information (i.e. styles, layouts, mechanical parts, connectors, fasteners, etc.) through the Internet, written manuals, journals, and other publications. This information is used to complete projects and assignments throughout the program.

6) Apply computational skills to a variety of contexts.

The field of drafting requires the combination of basic math, geometry, and algebra skills. Students will utilize these skills when producing drawings, cost estimates, and material lists.

8) Apply ethical reasoning to a variety of contexts.

The client-designer relationship requires an understanding of ethical behaviors in design and consultation. Draftsmen often work in teams where the individuals are each required to fulfill responsibilities under the direction of a team leader. This experience is modeled throughout the program.

9) Respond with informed sensitivity to an artistic work or experience.

In both mechanical and architectural drafting, the final product must be presented to the client. At this point in the process, students must recognize quality artistic efforts in order to be able to produce their own final presentation drawings.

Key Performance Indicators:

In class:

- Students will demonstrate mastery of course competencies by completing assignments/projects, tests, and quizzes. Assignments/projects are worth 75%, tests are worth 15%, and quizzes are worth 10% of the final grade.
- Percentages are approximate.

Following class:

- The knowledge and skills acquired in this course will be demonstrated by successful application in positions in the commercial architectural industry.

- Instructional materials as directed by instructor

Optimum Class Size: 12

Maximum Class Size: 20

Signatures:

I hereby submit this course syllabus:

Craig Conder, ,

I hereby find this course consistent with the goals and resources of the Drafting Technology Department:

Craig Conder, , , Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)