



DRFT 2150

Division: Career and Technical Education

Department: Drafting Technology

Course: DRFT 2150

Title: Architectural Drafting

Catalog Description:

This course involves preparing a full set of plans on a small commercial structure. It includes finish schedules, reflected ceiling plan, building sections, and existing and new contour drainage plans. It covers solving problems related to a small commercial structure. It also covers producing drawings employing traditional methods, as well as CAD systems.

General Education Requirements: N/A

Semesters Offered: TBA

Credit/Time Requirement: Credit: 4; Lecture: 2; Lab: 4

Clock/Hour Requirements: 90

Offered for Non-Credit: No

Prerequisites: DRFT 1400, DRFT 2100

Corequisites: None

Justification:

This course is approved by the program advisory committee and corresponds to SLCC course ARCH 2520, UVSC course DT 2100, and WSU course DG 2350.

Student Learning Outcomes:

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

- show competency in the procedures for drawing a solid masonry wall section, full building section, and connector details
- identify and draw the basic symbols used in various commercial plans
- show competency in the procedure for dimensioning of commercial plans
- show competency in the procedure for drawing plans used in compiling a full set of construction documents
- show competency in the development and application of Americans with Disabilities Act (ADA) requirements as they apply to commercial projects.

Content:

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

- discussion of different schedules used in documents

- discussion of special details required in said documents
- discussion and drawing assignments of symbols
- discussion of proper dimension techniques used in commercial architecture
- applying the required procedures to complete assignments and finish construction documents of assigned project
- discussion of ADA requirements.

General Education Outcomes:

2) Write clearly, informatively, and persuasively.

Students are required to complete descriptive term-sheets which provide information about the vocabulary and terminology used in this specific area. The descriptions are reviewed, graded, and returned to students for improvement.

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.

5) Apply a cultural and historical awareness to a variety of phenomena.

Students must understand the historical aspects of architectural styles and the methods utilized in the drafting field. This historical perspective is addressed in lecture and students are required to identify styles through exams and projects.

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.

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.

Following class:

- Employment skills will be enhanced because students will demonstrate the skills and procedures of completing commercial documents in the architectural field.

Representative Text and/or Supplies:

- *Architectural Working Drawings*, current edition, John Wiley and Sons.
- *Architectural Residential Drawing and Design*, current edition, Goodheart-Wilcox Company, Inc.

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)