



DRFT 2020

Division: Career and Technical Education

Department: Drafting Technology

Course: DRFT 2020

Title: Technical Illustration

Catalog Description:

This course is designed to broaden knowledge in the area of graphics illustration. It covers the illustration of pictorial drawings using pencil, ink, colored pencils, and a brief introduction to the air brush. It also includes different illustration techniques to produce pictorial drawings from isometric and oblique drawings and covers the procedures used in a one-point and two-point perspective drawing from a floor plan, using vanishing points and using a perspective graph or chart.

General Education Requirements: N/A

Semesters Offered: TBA

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

Clock/Hour Requirements: 45

Offered for Non-Credit: No

Prerequisites: DRFT 1030

Corequisites: None

Justification:

This course is approved by the program advisory committee and corresponds to UVSC course DT 2060 and SLCC course ARCH 2150.

Student Learning Outcomes:

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

- understand the basic principles of graphic illustration
- apply various types of shading while working with different shaped oblique and isometric objects
- know how to illustrate objects using pencils, ink, colors, and the air brush
- understand the basic principles of one-point perspectives
- understand the basic principles of two-point perspectives
- create perspective views of different objects and structure, and apply different illustration techniques to create presentation drawings.

Content:

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

- principles for creating illustrations

- practicing different methods of illustrating objects
- techniques used in illustrating different shapes
- using different media (pencil, colors, ink, and the air brush) to illustrate objects
- principles of one-point perspectives
- principles of two-point perspectives
- creating and illustrating different objects and structures in perspective.

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.

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.

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.

Following class:

- The knowledge and skills acquired in this course will be demonstrated in subsequent courses. Students will also be able to demonstrate the technical illustrating skills necessary in graphical presentation employment positions.

Representative Text and/or Supplies:

- 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)