

DRAFTING (DFTG)

DFTG 1313

Drafting for Specific Occupations

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is a discussion of theory and practice with drafting methods and the terminology required to prepare working drawings in specific or various occupational fields.

Prerequisite: DFTG 1325.

DFTG 1315

Architectural Blueprint Reading

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course examines the fundamentals of blueprint reading for the construction industry.

Prerequisite: Completion or Concurrent enrollment in DFTG 1409.

DFTG 1325

Blueprint Reading and Sketching

CRT HRS:3 LEC HRS:2 LAB HRS:3 OTH HRS:0

This course is an introduction to reading and interpreting the working drawings for fabrication processes and associated trades. Students will utilize sketching techniques to create pictorial and multiple-view drawings.

Prerequisite: None.

DFTG 1409

Basic Computer-Aided Drafting

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is an introduction to basic computer-aided drafting. Emphasis is placed on basic computer operating principles, hardware descriptions and requirements, drawing setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinating systems; as well as input and output devices.

Prerequisite: None.

DFTG 1430

Civil Drafting I

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course covers preparation of civil drawings including drafting methods and principles used in civil engineering.

Prerequisite: DFTG 1470.

DFTG 1441

Intermediate Technical Animation and Rendering

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course covers 3-D modeling and rendering techniques including lighting, staging, camera, and special effects. Emphasizes 3-D modeling building blocks using primitives to create simple and complex architectural/mechanical models.

Prerequisites: DFTG 2419.

DFTG 1470

Introduction to Civil Drafting

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course discusses basic concepts in civil drafting and utilization of CAD systems in the development of various civil engineering related projects.

Prerequisite: None.

DFTG 1480

Cooperative Education

CRT HRS:4 LEC HRS:1 LAB HRS:0 OTH HRS:21

In this course, career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the work experience.

Prerequisite: DFTG 2331 and completion of or concurrent enrollment in DFTG 2438.

DFTG 2331

Advanced Technologies in Architectural Design and Drafting

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course will focus on the use of architectural specific software to execute the elements required in designing standard architectural exhibits utilizing custom features to create walls, windows and specific design requirements for construction in residential/commercial and industrial architecture.

Prerequisite: DFTG 2428.

DFTG 2371

Civil Drafting Visualization

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course will focus on the use of civil-specific visualization technologies to present advanced concepts and drafting designs.

Prerequisite: DFTG 1430.

DFTG 2419

Intermediate Computer-Aided Drafting

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is a continuation of practices and techniques used in basic computer-aided drafting emphasizing advanced dimensioning techniques, the development and use of prototype drawings, construction of pictorial drawings, interfacing 2d and/or 3d environments and extracting data. A portfolio to be submitted for evaluation will be required.

Prerequisite: DFTG 1409.

DFTG 2428

Capstone: Architectural Drafting-Commercial

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course covers architectural drafting procedures, practices, and symbols including the preparation of detailed working drawings for a commercial building, with emphasis on commercial construction methods. Emphasis will be placed on developing drawings to show the functionality of structures using specified building materials and following current building codes. Building types to be covered will be residential, commercial, industrial and institutional.

Prerequisite: Completion of or concurrent enrollment in DFTG 2419.

DFTG 2438

Final Project - Advanced Drafting

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This is a drafting course in which students participate in a comprehensive project from conception to conclusion.

Prerequisite: Completion of DFTG 2419, DFTG 2331 and DFTG 2428.

DFTG 2470

Civil Drafting II

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This advanced course builds on the concepts and principles from previous civil drafting-related courses. Utilization of advanced civil technologies in the creation of various civil engineering-related projects is emphasized.

Prerequisite: DFTG 1430.