

# DRAFTING (DRFT)

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## **DRFT 1101 - Drafting Fundamentals (3 Credit Hours)**

Development of visual and spatial skills related to understand and communicating geometric designs through sketching and other drafting techniques.

Prerequisite(s): None  
(1/2/3)

## **DRFT 1102 - AutoCAD (3 Credit Hours)**

Creating computer drawings using AutoCAD tools, properties, functions, and operations to make drawing used across various drafting fields. This course examines the concepts found in the AutoCAD Certified Professional exam.

Prerequisite(s): None  
(1/2/3)

## **DRFT 1103 - Geometric Drafting (3 Credit Hours)**

The review and analysis of geometric drafting principles, such as geometric constructions, pictorial drawing, orthographic and auxiliary views.

Co-requisite(s): DRFT 1102, DRFT 1101  
(1/2/3)

## **DRFT 1104 - Technical Drafting (3 Credit Hours)**

The application of the principles and methods for creating machine and section drawing, dimensioning and mechanical components.

Co-requisite(s): DRFT 1101, DRFT 1102  
(1/2/3)

## **DRFT 1105 - Materials & Manufacturing Tech (3 Credit Hours)**

An exploration of the various manufacturing and construction materials, processes and technologies utilized in different drafting fields including additive manufacturing. Emphasis is placed on terminology and function.

Prerequisite(s): None  
(3/0/3)

## **DRFT 1201 - Architectural Drafting (3 Credit Hours)**

A study of the principles, methods and standards utilized in the design and construction of both residential and commercial buildings. The course also examines building codes (including ADA requirements) as well as environmental aspects related to the construction industry.

Prerequisite(s): DRFT 1102 and DRFT 1105  
(1/2/3)

## **DRFT 1202 - Mechanical Design (3 Credit Hours)**

A study of the principles, methods, and standards used in the design and manufacturing of mechanical parts and assemblies through working drawings, according to industry-based standards and current practices using AutoCAD.

Prerequisite(s): DRFT 1102 and DRFT 1105  
(1/2/3)

## **DRFT 1203 - Parametric Modeling (3 Credit Hours)**

A parametric modeling course utilizing AutoDesk Inventor software. The course progresses through part modeling, creating and documenting assemblies, drawing generation and client presentation based on industry standards. Project work flow, documentation and file management is also included. This course includes the concepts found in the AutoCAD CErtified Professional exam.

Prerequisite(s): DRFT 1102 and DRFT 1105  
(1/2/3)

## **DRFT 1204 - Pipe Drafting (3 Credit Hours)**

The application of various industry standards to drawings and schematics utilized in process manufacturing, including piping components, equipment, structural systems and industry codes and practices. 2D AutoCAD and AutoCAD Plant 3D will be utilized in this course. Course concepts based on the Society of Piping Engineers and Designers credentialing exam.

Prerequisite(s): DRFT 1102  
(1/2/3)

## **DRFT 1205 - Capstone Project (3 Credit Hours)**

A student-designed, independently-constructed group activity that enables students to further develop their knowledge/skill in a drafting field through the theoretical and practical development, planning, and management of a drafting project from start to finish. A comprehensive, formal group presentation is required at the conclusion of the project.

Prerequisite(s): None  
(1/2/3)

## **DRFT 2991 - Special Projects I (1 Credit Hour)**

A course designed for the student who has demonstrated specific special needs. Associate Provost of Academics approval required.

Prerequisite(s): None  
(0/1/1)

## **DRFT 2993 - Special Projects II (2 Credit Hours)**

A course designed for the student who has demonstrated specific special needs. Associate Provost of Academics approval required.

Prerequisite(s): None  
(0/2/2)

## **DRFT 2995 - Special Projects III (3 Credit Hours)**

A course designed for the student who has demonstrated specific special needs. Associate Provost of Academics approval required.

Prerequisite(s): None  
(0/3/3)