

# DRAFTING/DESIGN TECHNOLOGY (DRFT)

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## DRFT 131 Fundamentals Of Drafting (3 Credits)

**Lecture:** 1, **Lab:** 4

Fundamentals of Drafting (3) Use and care of drafting instruments, lettering, geometric construction, freehand sketching, and orthographic projections. Introduction to computer aided drafting included. One hour of lecture and four hours of laboratory per week.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 132 Descriptive Geometry (3 Credits)

**Lecture:** 1, **Lab:** 4

Descriptive Geometry (3) Folding line relationships and notations, auxiliary views, angles between plane revolutions, and intersections. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 131.

**Prerequisite(s):** (DRFT 131)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 133 Architectural Drafting (3 Credits)

**Lecture:** 1, **Lab:** 4

Architectural Drafting (3) Fundamental architectural drafting practices related to developing working drawings for residential and light commercial buildings. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 131. Listed as ARCH 2201 in the Texas Common Course Numbering System.

**Prerequisite(s):** (DRFT 131)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 134 Mechanical Drawing (3 Credits)

**Lecture:** 1, **Lab:** 4

Mechanical Drawing (3) Emphasis on orthographic and auxiliary projection, threads and fasteners, machine drawings and perspectives. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 131.

**Prerequisite(s):** (DRFT 131)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 136 Architectural Rendering (3 Credits)

**Lecture:** 1, **Lab:** 4

Architectural Rendering (3) Artistic requirements in architecture, including emphasis on perspectives, shapes, shadows, and color presentations. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 133.

**Prerequisite(s):** DRFT 133

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 231 Pipe Drafting (3 Credits)

**Lecture:** 1, **Lab:** 4

Pipe Drafting (3) Piping terminology, charts, tables, and practices in providing single and double line drawings. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 134.

**Prerequisite(s):** (DRFT 134)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 232 Architectural Design (3 Credits)

**Lecture:** 2, **Lab:** 4

Architectural Design (3) Study of the influences, which determine the appearances of architectural structures. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 133.

**Prerequisite(s):** (DRFT 133)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 233 Intro Comp-Aided Design (3 Credits)

**Lecture:** 1, **Lab:** 4

Introduction to Computer-Aided Design (3) Basic concepts, operations, and procedures necessary for producing engineering drawings on the computer. One hour of lecture and four hours of laboratory per week.

Listed as ARCH 1315 in the Texas Common Course Numbering System.

**Prerequisite(s):** (DRFT 131)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 331 Pipe System Design (3 Credits)

**Lecture:** 1, **Lab:** 4

Pipe System Design (3) Problems in piping design-utilizing vendor furnished equipment specifications and drawings, Smoley's tables, and related control documents. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 231. Offered as needed.

**Prerequisite(s):** (DRFT 231)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 333 Machine Design (3 Credits)

**Lecture:** 1, **Lab:** 4

Machine Design (3) Theory and practice of design characteristics for studying gears, cams, and complete assembly drawings of small machines. One hour of lecture and four hours of laboratory per week. Prerequisites: CIVT 232 and DRFT 134. Offered as needed.

**Prerequisite(s):** (DRFT 134 and DRFT 233)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 336 Computer-Aided Design (3 Credits)

**Lecture:** 1, **Lab:** 4

Computer-Aided Design (3) Advanced concepts of computer-aided design (CAD) utilizing the more complex capabilities of the equipment and software. One hour of lecture and four hours of laboratory per week.

**Prerequisite(s):** (DRFT 232)

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

## DRFT 430 Adv Comp-Aided Design (3 Credits)

**Lecture:** 1, **Lab:** 4

Advanced Computer-Aided Design (3) Continuation of DRFT 336 with emphasis on the development of three-dimensional designs, script files, and AUTOLISP programming. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 336.

**Prerequisite(s):** DRFT 233

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

**DRFT 431 Structural Drafting and Design (3 Credits)**

**Lecture:** 1, **Lab:** 4

Structural Drafting (3) Fabrication, connectors and seats for beams, girders, columns, and trusses adhering to AISC standards. One hour of lecture and four hours of laboratory per week. Prerequisite: DRFT 131 and consent of the instructor.

**Prerequisite(s):** DRFT 133

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech

**DRFT 432 Senior Design Project (3 Credits)**

**Lecture:** 1, **Lab:** 4

Senior Design Project (3) Integration of previous knowledge in the development of a design project. One hour of lecture and four hours of laboratory per week. Prerequisites: Senior standing and consent of the Faculty Chair.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of Industrial Tech