DDSN - Drafting Design

DDSN 101. CAD 1-A. 2 Credits. (2 Lec)
This course starts with basic software recognition and user interface concepts, introduces basic computer drafting principles and commands, including some intermediate concepts including 3D visualization and drafting and document publishing. Students will learn blocks, fields, CAD tips and shortcuts, and also create their own template and title block. The featured software is AutoCAD Architecture. There is no prerequisite. This course, when followed by DDSN 102 - CAD-1B, is equivalent to DDSN 118 CAD 1. In this course, students will focus on using AEC objects to create construction documents of designs created by others.

DDSN 112. Professional Practices. 3 Credits. (3 Lec)
Students in this course will learn how to create a professional looking and effective résumé, understand their strengths and weaknesses, talents, and aptitudes, know how to properly seek employment in their chosen field, present themselves well in interviews and elevator pitches, know the basics of setting up their own business, understand the basic principles of the business of the Design Drafting field and learn how to continue to improve in all of these areas.

DDSN 113. Technical Drafting. 3 Credits. (3 Lec) F
This course is divided into two parts. The first half of the semester is devoted to free hand sketching. The second half of the semester is hand drafting with an emphasis on learning the components of residential construction. Traditional drafting tools will be used such as T Squares, triangles, scales, eraser shields, and mechanical pencils.

DDSN 114. Introduction to CAD. 3 Credits. (1 Lec, 2 Lab) S
Provides the learner with an understanding of two-dimensional computer-aided drafting. Students explore and create two dimensional drawings with the aid of AutoCAD software (made by Auto desk). Drawings focus on architecture, mechanical and civil engineering applications.

DDSN 118. CAD I. 4 Credits. (4 Lec) F,S
Prerequisite: DRFT 131 or instructor approval. This course starts with basic software recognition and user interface concepts, introduces basic Computer Drafting principles and commands, navigates CADs steep learning curve, and progresses to Intermediate concepts including 3D Visualization and Drafting, AEC Objects, and Document Publishing. Students will learn Blocks, Fields, CAD Tips and Shortcuts, and also Create their own Template and Title Block. Featured software: AutoCAD Architecture. There is no prerequisite. Typically Taken - 1st Semester.

DDSN 124. Descriptive Geometry, 4 Credits. (4 Lec) S
Prerequisite: DRFT 131. Advanced theory and practices in descriptive geometry construction and pattern development are covered in this course in preparation for advanced courses in Design Drafting. Descriptive Geometry teaches 3D visualization and how to solve geometric problems by drawing them in CAD. Typically Taken – 2nd Semester (Spring).

DDSN 131. Introduction to Drafting and Design. 3 Credits. (3 Lec) F,S
Introductory course, teaching hand and CAD drafting as it relates to Architecture, Engineering, Construction, and Industrial Design.

DDSN 135. SolidWorks I. 3 Credits. (3 Lec) F,S
PREREQUISITE: M 111 or consent Program Director/Instructor. This course is a study and application of standards used for producing working drawings, including the fundamentals of geometric dimensioning and tolerance. Both detail and assembly drawings will be produced. Typically Taken – 2nd Semester (Spring).

DDSN 166. Revit I. 3 Credits. (3 Lec) S
PREREQUISITE: CSTN 173, DDSN 118, DDSN 131. Students will be introduced to Parametric Design and Building Information Modeling (BIM) that make up the base platform of this software as they work through a variety of drafting projects.

DDSN 186. Intermediate Drafting & Design. 3 Credits. (3 Lec) S
PREREQUISITE: DDSN 101 and 102 or DDSN 118 or DDSN 131. Explores advanced concepts, techniques, and customizability of AutoCAD. Create templates, set up and modify printers, generate shortcuts and subroutines, and increase drafting speed and efficiency. Transition from an AutoCAD user into a competent CAD manager. Typically Taken – 2nd Semester (Spring).
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.