

DRAFTING DESIGN (DDSN)

DDSN 113A - Technical Drafting. 3 Credits.

Offered autumn. An introduction to the techniques and standard practices of communicating technical graphics. The class studies and practices drawing skills and learns the drawing standards that support the needs of the design team in advancing ideas. It also provides the foundation for successful drawing communication in the CAD environment. Topics covered include; drawing media and tools, hand drawing skills, perspectives, views, sketching, standard scales, geometric construction, sections, dimensioning, and tolerances.

Gen Ed Attributes: Expressive Arts Course (A)

DDSN 114 - Introduction to CAD. 3 Credits.

Offered autumn. Offered at Missoula College. M 090 or appropriate math-skills test score recommended prior to taking course. An introduction to computer aided design and drafting software for production of drawings and plans for architecture and engineering systems. Fundamentals of two dimensional drafting and drawing management for professional design.

DDSN 116 - 3D CAD. 3 Credits.

Offered autumn. Offered at Missoula College Prereq. or Co-req., DDSN 114. CAD II provides a project-based, in-depth study of the skills and concepts involved in Computer Aided Design and Drafting. Topics covered include object grouping and sharing; three dimensional modeling; animation; and interoperability with other software. This course is the second in a two-part series covering the core AutoCAD application.

DDSN 135 - Solidworks. 2 Credits.

Offered at Missoula College. This course aggregates fundamental concepts of Blueprint Reading and Interpretation (MCH 120) and Machine Quality Control and Precision Measurements (MCH 129) in the form of gaining practical application of concepts to 3D solid modeling. 3D models will include drawings with symbols, various schematics and diagrams, dimensioning techniques, section views, auxiliary views, threads and fasteners typical to shop drawings. Application of specifications and acceptable tolerance requirements to ensure quality control measures for design parts and assemblies will also be stressed.

DDSN 191 - Special Topics. 1-6 Credits.

(R-6) Offered intermittently. Offered at Missoula College. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

DDSN 192 - Independent Study. 1-6 Credits.

(R-6) Offered intermittently. Offered at Missoula College. Prereq., consent of instr. Independent research in geography or planning.

DDSN 244 - GIS Mapping. 3 Credits.

Offered Spring. Offered at Missoula College. Basics of geospatial technologies; remotely sensed imagery, GIS, and GPS and how each of the individual areas can be used together to analyze spatial datasets. Students will explore a wide range of spatial data and will learn to apply these data sets to real-world solutions.

DDSN 245 - Civil Drafting. 4 Credits.

Offered spring. Offered at Missoula College. Prereq. DDSN 114. Introduces students to computer aided design software for common survey and engineering design and drafting applications. Topics include collection of survey data; the coordinate geometry system; surfaces; subdivision and land planning; road design and corridor modeling; utilities; site grading and drainage; mapping; and 3D visualization.