

DRAFTING (DRAF)

DRAF G090 0.5,1 Units (27, 54 lab hours)

CAD Drafting Laboratory

Co-requisite(s): ARCH G162 or DRAF G101 or DRAF G105 or DRAF G110 or DRAF G170.

Grading Mode: Standard Letter, Pass/No Pass
Not Transferable.

For students desiring or needing extra CAD lab hours. The student will perform exercises which will be assigned in one of the prerequisite classes. Graded or Pass/No Pass option.

DRAF G101 4 Units (54 lecture hours; 72 lab hours)

Basic Computer Aided Design Drafting

Grading Mode: Standard Letter, Pass/No Pass

Transfer Credit: CSU.

This lecture/lab course is a survey of the basic fundamentals of drafting using Computer Aided Drafting (CAD) and is designed to develop the ability to think in three dimensions and to interpret data from blueprints and sketches. The course includes: freehand sketching, use of dimensioning, multi-view projection, pictorial drawing, sectioning, and basic CAD menus. Graded or Pass/No Pass option.

DRAF G105 3 Units (36 lecture hours; 36 lab hours)

Basic Engineering Drafting I, Computer Aided Drafting

Grading Mode: Standard Letter

Transfer Credit: CSU.

The course will cover the study of correct letter styles for drafting, geometric construction, multi-view projection, basic dimensioning, threads & fasteners, isometric drawing and single auxiliary projection. All drafting problems will be drawn using computer aided drafting, (CAD), with AutoCAD software. Graded.

DRAF G110 3 Units (36 lecture hours; 36 lab hours)

Basic Engineering Drafting II, Computer Aided Drafting

Advisory: DRAF G105.

Grading Mode: Standard Letter

Transfer Credit: CSU.

The course will cover precision dimensioning, threads & fasteners, working drawings and assemblies, isometric drawing, single and secondary auxiliary projection, basic descriptive geometry and writing resumes. All drafting problems will be drawn using computer aided drafting, (CAD) with AutoCAD software. Graded.

DRAF G170 3 Units (36 lecture hours; 36 lab hours)

Advanced 3D Mechanical Design

Advisory: DRAF G110.

Grading Mode: Standard Letter, Pass/No Pass

Transfer Credit: CSU.

This is an advanced solid modeling design course for mechanical drafters, designers, and engineers. Students will use the most current Computer Aided Drafting (CAD) software and computer lab projects to develop solid models, assemblies and drawings and to solve mechanical design problems. Graded or Pass/No Pass option.