

DRAFTING (DRAF)

DRAF G101 3 Units (36 lecture hours; 54 lab hours)

Basic Computer Aided Design Drafting

Grading Mode: Standard Letter, Pass/No Pass

Transfer Credit: CSU; UC: Credit Limitation: DRAF G101, DRAF G105, and DRAF G170 combined: maximum credit, 8 units.

This course is the fundamentals of design and drawing for production. Students will analyze engineering design problems and develop solutions through sketches, CAD drawings and 3D printed prototypes. Graded or Pass/No Pass option.

DRAF G105 3 Units (36 lecture hours; 54 lab hours)

Basic Engineering Drafting I, Computer Aided Drafting

Grading Mode: Standard Letter

Transfer Credit: CSU; UC: Credit Limitation: DRAF G101, DRAF G105, and DRAF G170 combined: maximum credit, 8 units.

This course covers drafting principles and applications using 2D Computer-Aided Design (CAD) software. Students will develop multi-view projection, isometric, and pictorial drawings, dimensioning & tolerances, threads & fasteners, standards and conventions and letter styles. Graded.

DRAF G110 3 Units (36 lecture hours; 54 lab hours)

Basic Engineering Drafting II, Computer Aided Drafting

Advisory: DRAF G105.

Grading Mode: Standard Letter

Transfer Credit: CSU.

This course is 3D solid modeling design for mechanical drafters, designers, and engineers. Students will use current 3D software and computer lab projects to develop solid models, assemblies, and drawings. Graded.

DRAF G170 3 Units (36 lecture hours; 54 lab hours)

Advanced 3D Mechanical Design

Advisory: DRAF G110.

Grading Mode: Standard Letter, Pass/No Pass

Transfer Credit: CSU; UC: Credit Limitation: DRAF G101, DRAF G105, and DRAF G170 combined: maximum credit, 8 units.

This course is advanced solid modeling design for mechanical drafters, designers, and engineers. Students will use the most current 3D software to develop advanced solid models, final project, and professional portfolio. Graded or Pass/No Pass option.