

DRAFTING (DRFT)

DRFT 016 CAD Applications **4unit(s)**

Hours: 3 Lecture/Discussion Hours:
3 Lab

This is an advanced computer assisted drafting course that explores parametric solid modeling. Techniques include modeling tools, assembly modeling, and working with drawing views.

Advisory on Recommended Preparation: DRFT 114 and DRFT 115 or equivalent college courses with a minimum grade of C; Prior work experience using AutoCAD and/or SolidWorks.

DRFT 112 Mechanical Drafting 1 **3unit(s)**

Hours: 2 Lecture/Discussion Hours:
3 Lab

This is an introductory course in the fundamentals of mechanical drawing and modern drafting practice. It is a "tactile" (by hand) drafting course.

This course is a basis for all drafting-related majors and is recommended for students who have had no high school drafting, but plan to enter any one of various design professions.

DRFT 113 Mechanical Drafting 2 **3unit(s)**

Hours: 2 Lecture/Discussion Hours:
3 Lab

This is an intermediate course in the fundamentals of technical drafting and practical applications. Emphasis will be placed on lettering, orthographic projection, auxiliary views, dimensioning, and the interrelationship of each manufacturing design. Formerly DRFT 100.

Advisory on Recommended Preparation: DRFT 112 or equivalent college course with a minimum grade of C or equivalent skills as determined by departmental assessment.

DRFT 114 Introduction to CAD **4unit(s)**

Hours: 3 Lecture/Discussion Hours:
3 Lab

This is an introductory course that explores the basic concepts and applications of computer assisted drafting. Students will use the computer to solve a series of drafting problems related to various design professions.

DRFT 115 Advanced CAD **4unit(s)**

Hours: 3 Lecture/Discussion Hours:
3 Lab

This is an advanced computer assisted drafting course that explores parametric solid modeling. Techniques include sketching, editing, modifying, adding relations and dimensions, base feature options, creating geometries, modeling tools, and editing features.

Advisory on Recommended Preparation: DRFT 114 or equivalent college course with a minimum grade of C.