DRAFTING (DRAF)

DRAF 105 Computer Aided Drafting I (3 Credit Hours)
Type of credit: Occupational/Technical
Lecture hours: 2
Lab hours: 2
CAD I is a course utilizing AutoCAD software. This course acquaints students with the basics of two-dimensional, computer-aided design. Topics include menu and command structure, creating two-dimensional geometry, editing, file storage, layers, color manipulation, dimensioning, tolerances, text generation, scaling and plotting/printing.

DRAF 106 Drafting Fundamentals I (3 Credit Hours)
Type of credit: Occupational/Technical
Lecture hours: 2
Lab hours: 2
Prerequisite: DRAF 105 or DRAF 151 with minimum grade of C.
Acquaints the student with the fundamentals of mechanical drafting with CAD software. Some topics covered are multi-view projection, section views, auxiliary views and dimensioning. Inch and metric units will be used.

DRAF 107 Drafting Fundamentals II (3 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 2
Lab hours: 2
Provides a continuation of DRAF106. This course gives the student more advanced mechanical drafting experience. Some topics covered are: allowances, tolerances, detail drawings, assembly drawings, isometics, geometric dimensioning, and tolerancing.

DRAF 110 Print Reading and Inspection (2 Credit Hours)
Type of credit: Occupational/Technical
Lecture hours: 1
Lab hours: 2
Repeatable: 3 times
This course will acquaint the student with the interpretation of basic mechanical drawings. An emphasis will be placed on the evaluation of multiple views, dimensioning, tolerancing, terminology, and the use of standard symbols. Each student will interpret the inspection call outs and will have hands-on experience using inspection equipment. Equipment will include, but not be limited to: micrometers, calipers, plug and ring gauges, and finish checkers.

DRAF 260 CAD-3D Solid Modeling (4 Credit Hours)
Type of credit: Occupational/Technical
Lecture hours: 2
Lab hours: 4
Prerequisite: DRAF 105 with minimum grade of C.
Studies the principles and techniques used to develop three-dimensional forms. The use of parametric solid modeling and 3D-rendering techniques will be stressed as a design and presentation tool.

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