Common Course Numbering System

Searching Current Courses For Spring 2015

Course: MTE 106
Title: Print Reading Manufacturing
Long Title: Instructs students in reading and understanding industrial prints. This course covers basic drafting and print standards, fundamentals of shape description, fundamentals of size description and annotation, industrial drawing types, and specialized parts and prints. Symbol interpretation, tolerancing and dimensioning standards are also covered.

Min Credit: 3
Max Credit: 

Origin Notes: FRCC
Course Notes: Revised prfx was TEC,dscrptn,cmtncs,outln 10/15/12

1. Identify the importance of prints.
2. Identify the standard alphabet of lines and describe the types of lines by appearance and purpose.
3. Identify the elements of the title block.
4. Identify scales and precision measuring devices and tools.
5. Explain the types of views used in engineering / manufacturing drawings.
6. Review the basic elements involved in common manufacturing processes.
7. Identify common screw thread forms, springs, fasteners, connections methods, cams, and gears.
8. Identify terms, symbols and measurements associated with dimensioning, geometric tolerancing, working drawings, and pictorial drawings.
9. Identify sheet metal, welding and electrical symbols and drawings.

TOPOICAL OUTLINE:

I. Introduction to Prints
II. Line Conventions and Lettering
III. Title Blocks and Part Lists
IV. Geometric Terms and Construction
V. Multiview Drawings
VI. Section Views
VII. Auxiliary Views
VIII. Screw Thread Representation
IX. Dimensioning
X. Tolerancing
XI. Machining Specifications and Drawing Notes
XII. Surface Texture Symbols
XIII. Geometric Dimensioning and Tolerancing
XIV. Drawing Revision Systems
XV. Detail Drawings
XVI. Assembly Drawings
XVII. Springs and Fasteners in Industrial Prints
XVIII. Gears, Splines and Serrations
XIX. Cam Diagrams and Prints
XX. Plastic Parts
XXI. Precision Sheet Metal Parts
XXII. Welding Prints
XXIII. Instrumentation and Control Drawings

Course Offered At:

Pueblo Community College PCC

RELEASE: 8.5.3

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