Big Bend
COMMUNITY COLLEGE

MASTER COURSE OUTLINE
Prepared By: Bill Autry   Date: September 2012

COURSE TITLE
Technical Drawing Interpretation

GENERAL COURSE INFORMATION

Dept.: IST	Course Num: 102	(Formerly:)
CIP Code: 47.0303	Intent Code: 21	Program Code: 768
Credits: 3		
Total Contact Hrs Per Qtr.: 44		
Lecture Hrs: 22	Lab Hrs:22	Other Hrs:
Distribution Designation:		

COURSE DESCRIPTION (as it will appear in the catalog)
Fundamental technical drawing reading and sketching principles, concepts and standards as applied to industry.

PREREQUISITES
None

TEXTBOOK GUIDELINES
Appropriate textbook as determined by faculty (Example: *Basic Blueprint Reading and Sketching,* by Olivio & Olivio).

COURSE LEARNING OUTCOMES
Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills.
1. Visualize multi-view drawings from various industrial disciplines.
2. Sketch simple multi-view and pictorial drawings.
3. Demonstrate knowledge of drawing nomenclature, symbols, notes and abbreviations.
4. Read and describe drawing data pertaining to dimensioning, tolerance and surface finish techniques as used on mechanical, architectural, manufacturing, electrical, piping, welding, and installation drawings.

INSTITUTIONAL OUTCOMES
IO1   **Communication**: Students will be able to communicate clearly and effectively within a workplace context

COURSE CONTENT OUTLINE
       An introduction to industrial drawings and prints
       A. The Orthographic System
       B. The Alphabet of lines
       C. Arrangement of views
       D. Visualization
              1.   Multiview, Pictorial Drawings
       E. Sketching
              1.   Multiview, Pictorial Drawings
       F. Sectional Views

G. Dimensioning, tolerance, surface finishes
H. Threads and fasteners
I. Title block information
    1.   Revisions, scale
J. Types of drawings
    1.   Mechanical
    2.   Architectural
    3.   Manufacturing
    4.   Electrical
    5.   Piping
    6.   Survey
    7.   Mapping
    8.   Schematic
    9.   Welding
    10.   Installation
K. Symbols, notes, abbreviations, details, referencing
L. Reading industrial drawings

DEPARTMENTAL GUIDELINES *(optional)*

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DIVISION CHAIR APPROVAL   **DATE**