SYLLABUS

DIVISION: Workforce Services   **REVISED**: 2016

CURRICULA IN WHICH COURSE IS TAUGHT: Precision Machining Technology

COURSE NUMBER AND TITLE: CAD 120 – Introduction to Graphic Representation

CREDIT HOURS: 3 **HOURS/WK. LEC**: 2 **HOURS/WK. LAB:** 3 **LEC/LAB COMB:** 5
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I. **CATALOG DESCRIPTION**:
    CAD 120 teaches use of instruments, lettering, sketching, and drawing conventions. Emphasizes legible drawings and the value of presentation.

II. **RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES IN WHICH IT IS TAUGHT:**
    To teach students the basics of drafting so that they might understand the procedures necessary and be able to interpret blueprints better in the machine shop.

III. **REQUIRED BACKGROUND:**
    None

IV. **COURSE CONTENT**:
    1. Parametric drafting concepts
        a. Sketches
        b. 3-D drafting
        c. Constraining sketches
        d. Construction geometry
        e. Sketch planes
        f. Geometry as it pertains to sketching
        g. Section views
        h. Tolerancing
        i. Blueprint creation

V. **The following General Education Objectives will be addressed in this course:**

____**x**___ Communications   ____**x**___ Computational and Computer Skills

____**x**___ Application of Skills

____**x**___ Critical Thinking   ____**x**___ Understanding Science and Technology

____**x**___ Interpersonal Skills and   ____**x**___ Preparation for Entry into Workforce
          Human Relations

VI.   LEARNER OUTCOMES

VII.   EVALUATION

Learner outcome	Evaluation method
Learner outcome • Read and interpret part blueprints	**Evaluation method** • Lab exercises and written test
Learner outcome • Create sketches of parts	**Evaluation method** • Lab exercises and written test
Learner outcome • Create part drawings	**Evaluation method** • Lab exercises and written test
Learner outcome • Create orthographic projection drawings	**Evaluation method** • Lab exercises and written test

VIII.   Over 90% of the students complete this class.