South Central College

CIM 1101  Interpreting Engineering Drawings I - Application

Common Course Outline

Course Information

Description
In this course the student will have opportunities to use lab time to practice the skills learned in CIM 1100, the Interpreting Engineering Drawings lecture. (Prerequisite: CIM 1100 - IED Introduction)

Total Credits  1.00
Total Hours  32.00

Types of Instruction

Instruction Type    Credits/Hours
Lab                 1/32

Pre/Corequisites

Prerequisite    CIM 1100 - IED Introduction

Institutional Core Competencies

Analysis and inquiry: Students will demonstrate an ability to analyze information from multiple sources and to raise pertinent questions regarding that information.

Foundations and skills for lifelong learning: Students will display an understanding of learning as a lifelong process through demonstration of a desire to learn, the willingness to apply learning to other areas of their lives, the ability to think and act independently, be willing to take the initiative to get projects done, and demonstrate the ability to reflect upon what has occurred and how it impacts the student and others.

Written and oral communication: Students will communicate effectively in a range of social, academic, and professional contexts using a variety of means, including written, oral, numeric/quantitative, graphic, and visual modes of communication.

Course Competencies

1  Apply Geometric Dimensioning and Tolerancing (GD&T) to projects as appropriate.
   Learning Objectives
   Use drawing to define datum.
   Demonstrate the use of a feature control frame.
   Apply runout tolerances.

2  Utilize Quality Assurance planning methods.
   Learning Objectives
Calculate average and standard deviation.
Determine capability range (average +/- 3 standard deviations).
Develop a sampling plan.
Create an inspection plan.

3  **Apply blueprint basics to interaction with working drawings.**

   Learning Objectives
   Describe project specifications based on title block information.
   Interpret blueprint drawings.
   Create accurate blueprints, using appropriate symbols and notations.

**SCC Accessibility Statement**

If you have a disability and need accommodations to participate in the course activities, please contact your instructor as soon as possible. This information will be made available in an alternative format, such as Braille, large print, or cassette tape, upon request. If you wish to contact the college ADA Coordinator, call that office at 507-389-7222.

Disabilities page [http://southcentral.edu/academic-policies/disability-rights.html](http://southcentral.edu/academic-policies/disability-rights.html)