South Central College

CIM 2201  Interpreting Engineering Drawings IV

Common Course Outline

Course Information

Description  This course expands on the introductory and intermediate-level information about prints and drawings and provides more experiential learning opportunities for students to work with symbols, notations, and GD&T feature control frames. (Prerequisite: CIM 2101 - Interpreting Engineering Drawings III)

Total Credits  3.00
Total Hours  80.00

Types of Instruction

<table>
<thead>
<tr>
<th>Instruction Type</th>
<th>Credits/Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>1/16</td>
</tr>
<tr>
<td>Lab</td>
<td>2/64</td>
</tr>
</tbody>
</table>

Pre/Corequisites

Prerequisite  CIM 2101 - Interpreting Engineering Drawings III

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.

Critical and creative thinking: Students will develop the disposition and skills to strategize, gather, organize, create, refine, analyze, and evaluate the credibility of relevant information and ideas.

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  Evaluate symbols and notations on many kinds of prints.
   Learning Objectives
   Assess usefulness of symbols and notations on prints.
   Determine adjustments, if needed, on drawings.

2  Assess usage of tolerances on engineering drawings.
   Learning Objectives
   Critique bilateral and unilateral tolerances.
   Recommend adjustments to tolerances on prints, if needed.
3 Determine accuracy of print content.
   Learning Objectives
   Judge the quality of prints.
   Compare prints to job specifications.
   Identify areas that may need to be modified on prints.

4 Create advanced prints based on project specifications.
   Learning Objectives
   Utilize a variety of indicators to create prints for advanced tasks.
   Use specific parameters of a project to create prints.

5 Analyze class of fit on machine drawings.
   Learning Objectives
   Determine appropriate class of fit for a given situation.
   Generate class of fit on engineering drawings.

6 Design engineering drawings using a variety of factors.
   Learning Objectives
   Review project specifications.
   Determine applicable print content.
   Generate plans for advanced engineering drawings.

7 Create advanced projects based on prints.
   Learning Objectives
   Use prints to determine needs for advanced projects.
   Implement steps of advanced projects based on print content.

8 Evaluate quality assurance procedures.
   Learning Objectives
   Identify existing quality assurance processes.
   Determine if the steps are sufficient for quality assurance.
   Create additional components or modify process as needed.

9 Check final quality of project against complex prints.
   Learning Objectives
   Compare print with final product.
   Modify print and/or product based on job specifications and drawings.

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