Southwestern Illinois College
Computer-Aided Drafting (CAD)

Mission Statement:

The missions of the Computer-Aided Drafting program at Southwestern Illinois College is to provide the students with the knowledge and skills required to enter the workforce as a productive drafting technician. The program continually assesses student learning and makes necessary modifications in teaching methods as indicated to best prepare students for employment as a drafting technician.

Educational Goals:

Upon completion of the Computer-Aided Drafting program, the drafting technician will be able to:

- ✓ demonstrate the steps necessary to create, modify, and revise drawings using a computer-aided drafting application. (Communication Skills, Reasoning Skills)

- ✓ communicate pictorially. (Citizenship, Communication Skills, Reasoning Skills)

- ✓ demonstrate the basic drafting techniques to create working drawings. (Communication Skills, Reasoning Skills)

- ✓ create a 2-Dimensional multiview drawing from 3-Dimensional objects/pictorial projections. (Communication Skills, Reasoning Skills)

- ✓ incorporate American Society of Mechanical Engineers (ASME) Y14.1, .2M, .3, .4, .5, .36, Y15.1, & Y32.9 standards. (Communication Skills, Reasoning Skills)

- ✓ demonstrate the steps for file maintenance of computer-aided drafting application files. (Citizenship, Communication Skills, Reasoning Skills)

- ✓ discuss the concepts of either manufacturing or architectural drafting. (Citizenship, Communication Skills, Reasoning Skills)

- ✓ interact with fellow students to solve problems and work on group projects. (Citizenship, Communication Skills, Reasoning Skills)

- ✓ use oral and written communication to explain drafting processes as it relates to the students area of interest. (Citizenship, Communication Skills, Reasoning Skills)

- ✓ incorporate math & descriptive geometry in order to solve drafting problems. (Communication Skills, Reasoning Skills)

- ✓ solve problems using basic drafting concepts from past and present required readings. (Citizenship, Communication Skills, Reasoning Skills)

Submitted by: Shauna Scribner
Division: Technical Education Division
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