SOUTHWESTERN ILLINOIS COLLEGE

MISSION STATEMENT AND STUDENT LEARNING OUTCOMES FOR:

Computer Aided Design

Review Year: 2024

Division:	Discipline/Program/Department:	Contact Person:
Technical Education	Computer Aided Design	**Bednara, Cynthia**

Mission Statement

The mission of the Computer-Aided Design 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 CAD technician.

Program/Discipline Curriculum Map

I = Introduce: Student is first exposed to the concept/idea and is requested to apply the concept in a limited scope.
E = Emphasize: Student applies concept(s) in varying/multiple situations of greater complexity than when initially introduced.
R = Reinforce: Student may be expected to understand the concept upon taking the course and utilizes the concept in conjunction with other concepts/ideas to solve problems.

Program/Discipline Outcomes — Course Prefix and Number

Graduates of this program or discipline shall be able to:	CAD 100	CAD 101	CAD 102	CAD 120	CAD 200	CAD 201	CAD 202	CAD 203	CAD 204	CAD 206	CAD 208	CAD 210	CAD 220	CAD 221	CAD 222	CAD 225	CAD 226	CAD 230	CAD 231	CAD 232	CAD 233	CAD 234	CAD 290	CAD 291	CAD 292
demonstrate the steps necessary to create, modify, and revise drawings using a computer aided design and drafting software application.	I	I	R	R	I/R	I/R	I	I/R	E/R	E/R	E/R	E/R	E/R	I/R	E	E/R	E/R	I/R	E/R	I	R	E/R	E/R	E/R	E/R
incorporate American National Standards Institute (ANSI)/American Society for Mechanical Engineers (ASME) standards.	I	I	R	R	I/R	I/R	I	I/R	E/R	E/R	E/R	E/R	E/R	I/R	E	E/R	E/R	I/R	E/R	I	R	E/R	E/R	E/R	E/R
use oral, written, and pictorial communication to explain design drafting processes as it relates to the student's specialization.	I	I	R	R	I/R	I/R	I	I/R	E/R	E/R	E/R	E/R	E/R	I/R	E	E/R	E/R	I/R	E/R	I	R	E/R	E/R	E/R	E/R
demonstrate the safety, care and use of precision machines and precision measuring equipment.	I	I	R	R	I/R	I/R	I	I/R	E/R	E/R	E/R	E/R	E/R	I/R	E	E/R	E/R	I/R	E/R	I	R	E/R	E/R	E/R	E/R

Map Comments:

Core Competency Map

Core Competencies — Course Prefix and Number

Communication Skills	CAD 100	CAD 101	CAD 102	CAD 120	CAD 200	CAD 201	CAD 202	CAD 203	CAD 204	CAD 206	CAD 208	CAD 210	CAD 220	CAD 221	CAD 222	CAD 225	CAD 226	CAD 230	CAD 231	CAD 232	CAD 233	CAD 234	CAD 290	CAD 291	CAD 292
1. Computer Literacy				X											X				X						
2. Oral Communications													X												
3. Writing	X		X																				X	X	X
Reasoning Skills																									
4. Critical Thinking														X					X						
5. Quantitative Literacy																									
Citizenship																									
6. Personal Accountability																									
7. Civic And Social Accountability																							X	X	X