Computer Aided Design Technology AAS

West Burlington Campus, and select courses available at the Keokuk Campus

Program Information

The Computer Aided Design (CAD) program provides students with the skills necessary to create detailed product and assembly drawings, as well as architectural blueprints. Students learn the process of visualizing and developing models in two and three dimensional environments. Several software programs are introduced and used to provide students with hands-on experiences with the tools utilized in the workforce. Students will earn an OSHA 10 General Industry credential upon completion of the first semester of the program.

This degree provides students with the skill set needed to go directly into industry. Students are introduced to the CAD field during their internship. Students who wish to pursue a bachelor's degree may choose different course options to make transfer more successful. Please see your Student Success Advocate.

Please view the technical standards for this course.

Instructor and Staff

Jonathan Gaddis
Associate Professor - Computer Aided Design Technology/
Assistant Sports Shooting Coach
(319) 208-5258
jgaddis@scciowa.edu

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Program Requirements

Fall Semester I		Credit
CAD-101	Introduction to CAD	3
DRF-113	Fundamentals of Technical Drafting	3
MFG-212	Basic Machine Theory	3
EGT-108	Principles of Engineering	3
Please choose between MAT-702 (3 credits) or MAT-120 and MAT-134 (6 credits):		
MAT-134	Trigonometry and Analytic Geometry	3
MAT-120	College Algebra	3
MAT-702	Introduction to Math Applications	3
Semester Total		15-18

Spring Semester I		Credit
MFG-142	Geometric Dimensioning Tolerancing	3
CAD-277	3-D Dimensional (3-D) Modeling I	3
EGT-116	Continuous Quality Management	3
Take 1 of 2 courses:		
SOC-114	Conflict Resolution in the Workplace	3
SOC-115	Social Problems	3
Take 1 of 2 courses:		
ENG-105	Composition I	3
ENG-110	Writing for the Workplace	3
Semester Total		15

Summer Semester		Credit
Take 1 of 2 courses:		
ENG-106	Composition II	3
CAD-932	Internship	4
Semester Total		3-4

Fall Semester II		Credit
ARC-113	Architectural Drafting I	4
MFG-156	Introduction to CNC Machining	3
SDV-134	CTE Employability Skills	1
Take 1 of 2 courses:		
CAD-140	Parametric Solid Modeling	3
EGT-400	PLTW - Introduction to Engineering Design	3
Take 1 of 2 courses:		
PHY-106	Survey of Physics	4
PHY-162	College Physics I	4
Semester Total		15

Spring Semester II		Credit
ARC-129	Residential/Light Commercial Drafting	4
CAD-248	Parametric CAD II	3
CSC-110	Introduction to Computers	3
PHI-105	Introduction to Ethics	3
Semester Total		13

Program Total.....61-65