Computer Aided Design Technology: Career Pathway - AAS

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

Program Information

The Computer Aided Design (CAD) program provides students with the skill 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 OSHA 10 General Industry credential upon completion of the first semester of the program. Students may choose between two pathways in the CAD program: Career Pathway or Transfer Pathway. The Career Pathway provides students with the skill set needed to go directly into the industry Students are introduced to the CAD field during their internship. Successful completion of the CAD AAS program prepares the student for their full-time career The Transfer Pathway provides students with the education and technical skills and hands-on training needed to transfer to a four-year university for an advanced degree.

Please view the technical standards for this course.

Instructor and Staff

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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
Choose MAT-120 and MAT-134 or MAT-702:		
MAT-120	College Algebra	3
MAT-134	Trigonometry and Analytic Geometry	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
SOC-114	Conflict Resolution in the Workplace	3
ENG-110	Writing for the Workplace	3
Semester Total		15

Summer Semester		Credit
CAD-932	Internship	4
Semester Total		4

Fall Semester II		Credit
ARC-113	Architectural Drafting I	4
MFG-156	Introduction to CNC Machining	3
PHY-106	Survey of Physics	4
WBL-110	Employability Skills	1
Take 1 of 2 courses:		
CAD-140	Parametric Solid Modeling	3
EGT-400	PLTW - Introduction to Engineering Design	3
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.....62-65