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.

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.

In Fall I semester, students have the option of taking MAT-120 and MAT-134 together, or MAT-702.

Please view the technical standards for this course.

Instructor and Staff

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Program Requirements

Fall Semes	ter 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 T	Гotal	15-18
0		
Spring Sem		Credit
	Geometric Dimensioning Tolerancing	3
CAD-277	3-D Dimensional (3-D) Modeling I	3
	Continuous Quality Management	3
Take 1 of 2		•
	Conflict Resolution in the Workplace	3
	Social Problems	3
Take 1 of 2		•
	Composition I	3
	Writing for the Workplace	3
Semester I	Total	15
Summer Semester Credit		
Take 1 of 2 courses:		
	Composition II	3
CAD-932		4
	rotal	•
Fall Semes	ter II	Credit
ARC-113	Architectural Drafting I	4
MFG-156	Introduction to CNC Machining	3
Take 1 of 2	courses:	
CAD-140	Parametric Solid Modeling	3
EGT-400	PLTW - Introduction to Engineering Des	sign 3
Take 1 of 2 courses:		
PHY-106		
	Survey of Physics	4
	Survey of Physics College Physics I	4 4
PHY-162	,	
PHY-162 Take SDV-1	College Physics I	
PHY-162 Take SDV-7 SDV-134	College Physics I 134 as 1 credit:	4 1
PHY-162 Take SDV- SDV-134 Semester T	College Physics I 134 as 1 credit: CTE Employability Skills 「otal	4 1 15
PHY-162 Take SDV- SDV-134 Semester T Spring Sem	College Physics I 134 as 1 credit: CTE Employability Skills Total	1 15 Credit
PHY-162 Take SDV-7 SDV-134 Semester T Spring Sem ARC-129	College Physics I 134 as 1 credit: CTE Employability Skills Total nester II Residential/Light Commercial Drafting	4 1 15 Credit 4
PHY-162 Take SDV-7 SDV-134 Semester T Spring Sem ARC-129 CAD-248	College Physics I 134 as 1 credit: CTE Employability Skills Total nester II Residential/Light Commercial Drafting Parametric CAD II	4 1 15 Credit 4 3
PHY-162 Take SDV-7 SDV-134 Semester T Spring Sem ARC-129 CAD-248 CSC-110	College Physics I 134 as 1 credit: CTE Employability Skills Total nester II Residential/Light Commercial Drafting Parametric CAD II Introduction to Computers	4 15 Credit 4 3 3
PHY-162 Take SDV-7 SDV-134 Semester T Spring Sem ARC-129 CAD-248 CSC-110 PHI-105	College Physics I 134 as 1 credit: CTE Employability Skills Total nester II Residential/Light Commercial Drafting Parametric CAD II Introduction to Computers Introduction to Ethics	4 1 15 Credit 4 3 3 3
PHY-162 Take SDV-7 SDV-134 Semester T Spring Sem ARC-129 CAD-248 CSC-110 PHI-105 Semester T	College Physics I 134 as 1 credit: CTE Employability Skills Fotal The ster II Residential/Light Commercial Drafting Parametric CAD II Introduction to Computers Introduction to Ethics Fotal	4 1 15 Credit 4 3 3 3 3
PHY-162 Take SDV-7 SDV-134 Semester T Spring Sem ARC-129 CAD-248 CSC-110 PHI-105 Semester T	College Physics I 134 as 1 credit: CTE Employability Skills Total nester II Residential/Light Commercial Drafting Parametric CAD II Introduction to Computers Introduction to Ethics	4 1 15 Credit 4 3 3 3 3