

Computer Aided Design Technology - AAS

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

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 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
MAT-120	College Algebra	3

Take 1 of 2 courses:

MAT-134	Trigonometry and Analytic Geometry	3
MAT-702	Introduction to Math Applications	3
Semester Total.....		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
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Take 1 of 2 courses:

ENG-106	Composition II	3
CAD-932	Internship	4
Semester Total.....		3-4

Fall Semester II		Credit
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ARC-113	Architectural Drafting I	4
MFG-206	Manufacturing Processes I	3

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

Take WBL-110 as 1 credit:

WBL-110	Employability Skills	1-3
Semester Total.....		15

Spring Semester II		Credit
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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
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Program Total.....		64-65
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