

# Computer Aided Design Technology: Transfer Pathway - AAS

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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 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      |
| MAT-120 College Algebra                    | 3      |
| MAT-134 Trigonometry and Analytic Geometry | 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      |
| SOC-115 Social Problems                    | 3      |
| ENG-105 Composition I                      | 3      |
| Semester Total.....                        | 15     |

| Summer Semester        | Credit |
|------------------------|--------|
| ENG-106 Composition II | 3      |
| Semester Total.....    | 3      |

| Fall Semester II                  | Credit |
|-----------------------------------|--------|
| ARC-113 Architectural Drafting I  | 4      |
| MFG-206 Manufacturing Processes I | 3      |
| PHY-162 College Physics I         | 4      |

#### Take 1 of 2 courses:

|   |   |
|---|---|
| CAD-140 Parametric Solid Modeling                 | 3 |
| EGT-400 PLTW - Introduction to Engineering Design | 3 |

#### Take WBL-110 as 1 credit:

|                              |    |
|------------------------------|----|
| WBL-110 Employability Skills | 1  |
| 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..... | 64 |
|--------------------|----|