

**URBANDALE COMMUNITY SCHOOL DISTRICT
CURRICULUM FRAMEWORK OUTLINE**

SUBJECT:	Vocational Education
COURSE TITLE:	Computer Aided Drafting II (CAD II)
PREREQUISITES:	CAD I minimum grade of C or Instructor approval 1 Semester

COURSE DESCRIPTION:

Computer Aided Drafting II (CADII) is a course designed to present advanced drafting and CAD fundamentals and principles. Emphasis is placed on actual operation and utilization of drafting principles as applied through the use of CAD and parametric modeling. Student will also make a selection in a specialty area for additional study. Practical experience is gained through work with design projects.

CONTENT STANDARDS AND COURSE BENCHMARKS:

In order that our students may achieve the maximum benefit from their talents and abilities, the students of Urbandale Community School District's Computer Aided Drafting II course should be able to ...

Content Standard I. Demonstrate comprehension, computation, and applied technology skills.

Benchmarks: Communicate information effectively using a CAD program.
Use proper terminology as it relates to drafting.
Demonstrate the use of math as it relates to CAD.
Create assembly drawings.

Content Standard II. Develop communication, employability and life management skills.

Benchmarks: Demonstrate preparation and organizational skills for class.
Demonstrate punctuality, responsibility, reliability, and honesty.
Demonstrate self-regulation.
Demonstrate problem-solving skills.



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**CONTENT STANDARDS AND COURSE BENCHMARKS WITH INDICATORS
FOR COMPUTER AIDED DRAFTING II:**

Standard I. Demonstrate comprehension, computation, and applied technology skills. Students in Computer Aided Drafting II should be able to...

Benchmark: Communicate information effectively using a CAD program.

Indicators: Develop 2-D and 3-D drawings using CAD software.
Read mechanical drawings.
Construct detail/section drawings.
Dimension properly.

Benchmark: Use proper terminology as it relates to drafting.

Indicators: Use CAD2 terminologies as they are actively involved in class discussions.
Talk about problems that relate to class activities.
Read and demonstrate understanding of technical materials that deal with drafting and CAD.

Benchmark: Demonstrate the use of math as it relates to CAD.

Indicators: Demonstrate consistent use of fractions, decimals, and metrics in measurement units.
Demonstrate understanding of a variety of dimension styles (e.g., linear, angular, baseline).
Demonstrate use of extrusion, sweeps, and rotation.

Benchmark: Create assembly drawings.

Indicators: Complete necessary drawings for assembly.
Properly organize drawings for assembly directions.



Add necessary details.

**Standard II. Develop communication, employability and life management skills.
Students in Computer Aided Drafting II should be able to...**

Benchmark: Demonstrate preparation and organizational skills for class.

Indicators: Create subfolders on computer for file organization.

Benchmark: Demonstrate punctuality, responsibility, reliability, and honesty.

Indicators: Utilize time effectively.
Prioritize tasks.
Produce quality work.

Benchmark: Demonstrate self-regulation.

Indicators: Demonstrate awareness of own thinking.
Use resources to achieve goals.

Benchmark: Demonstrate problem-solving skills.

Indicators: Demonstrate open-mindedness.
Be accurate and seek accuracy in work.

No student enrolled in the Urbandale Community School District shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination in the District's programs on the basis of race, color, creed, sex, religion, marital status, ethnic background, national origin, disability, sexual orientation, gender identity, or socio-economic background. The policy of the District shall be to provide educational programs and opportunities for students as needed on the basis of individual interests, values, abilities and potential.



