

URBANDALE COMMUNITY SCHOOL DISTRICT
CURRICULUM FRAMEWORK

SUBJECT:	Vocational Education	
COURSE TITLE	Architectural Drafting	Full Year
PREREQUISITES:	CAD I and II with minimum grade of C or instructor approval	

COURSE DESCRIPTION:

Architectural Drafting is a course that uses computers as the design tool. Students study the following topics: house designs, individual room designs, construction drawings, specifications, and estimating. Students produce drawings that relate to each of these topics.

CONTENT STANDARDS AND BENCHMARKS:

In order that our students may achieve the maximum benefit from their talents and abilities, the students in Urbandale Community School District’s Building Construction course should be able to...

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

Benchmarks: Communicate information effectively using a CAD program.
Create architectural plans using CAD software.
Demonstrate industrial math literacy.

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

Benchmark: Demonstrate an understanding of the educational qualifications and levels of architectural drafting profession.
Understand the importance of proper construction technique.
Display responsibility, self-esteem, sociability, self-management, integrity, and honesty.
Demonstrate problem-solving skills.



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**CONTENT STANDARDS AND COURSE BENCHMARKS FOR
ARCHITECTURAL DRAFTING:**

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

Benchmark: Communicate information effectively using a CAD program.

Indicators: Demonstrates scientific and mathematical reasoning in development of drawings.
Read architectural prints.
Understand architectural terminology.

Benchmark: Create architectural plans using CAD software.

Indicators: Produce appropriate plans for interior layout, plumbing, electrical, and HVAC.
Use basic dimensioning practices in drawings.
Create section views.

Benchmark: Demonstrate industrial math literacy.

Indicators: Demonstrate scaling techniques.
Demonstrate angular calculations: stairs & roof pitch.
Demonstrate calculation of square footage.

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

Benchmark: Demonstrate an understanding of the educational qualifications and levels of architectural drafting profession.

Indicators: Research jobs related to architecture.
Research college requirements and degrees.
Explain the differences between educational degrees and certificates.
Explore attitudes and aptitudes required of architects.



Benchmark: Understand the importance of proper construction technique.

Indicators: Determine building materials.
Plot orientation of dwelling on lot and in its surroundings.
Follow building and safety codes.
Remain within allocated costs.

Benchmark: Display responsibility, self esteem, sociability, self management, integrity and honesty.

Indicators: Exert a high level of effort and perseverance toward goal attainment.
Demonstrate understanding/friendliness/empathy in group settings.
Assess self accurately while setting goals, monitoring progress, and exhibiting self-control.

Benchmark: Demonstrate problem-solving skills.

Indicators: Define the problem.
Proceed in a logical manner to make decisions.
Define needs of the occupants.
Consider traffic pattern and space requirements.
Apply design principles in creating the drawing.

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.

