



Ankeny Schools Logo 1

# ANKENY COMMUNITY SCHOOL DISTRICT

## Beginning House Design

### Contact information:

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School phone: 515-965-9610  
Room: Ankeny Centennial High School Room 1509  
Office Hours: Before School starting at 7:45 AM and after school until 3:45 PM

**Credit:** 1 High School Credit (1 Semester)

**Pre-requisite:** None

### Course Description:

There is no prerequisite as the course content is related to architecture and not engineering. Students need not be interested in becoming an architect to enjoy this course. A set of residential home plans will be drawn by the students using Chief Architecture, the world's number one 3D architectural software. Students will create the layout of a future home of their own design but using a certain square footage learning about all phases of construction and design. The plans will conform to all standards so that the house can actually be built. Students will start with simple structures and work their way up to actual homes.

### Supplies Needed:

- Pencils
- Notebook or Paper
- Free Reading Book

### How students will be graded on academics:

- Letter grades will continue to be assigned for all courses at the secondary level based on the 0-100 percent scale.
- When utilizing a rubric with four levels of proficiency (Beginning, Making Progress, Meeting the Standard, Exceeding), teachers will show the connection between a student's performance on the rubric to the assigned grade within the 0-100 percent scale. This connection will be communicated at the onset of its use and throughout the learning progression for the purpose of providing feedback.

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## **Grading Scale for Non-Weighted Classes:**

<b>Letter Grade:</b>	A
<b>Minimum Percent:</b>	92.5
<b>Letter Grade:</b>	A-
<b>Minimum Percent:</b>	89.5
<b>Letter Grade:</b>	B+
<b>Minimum Percent:</b>	86.5
<b>Letter Grade:</b>	B
<b>Minimum Percent:</b>	82.5
<b>Letter Grade:</b>	B-
<b>Minimum Percent:</b>	79.5
<b>Letter Grade:</b>	C+
<b>Minimum Percent:</b>	76.5
<b>Letter Grade:</b>	C
<b>Minimum Percent:</b>	72.5
<b>Letter Grade:</b>	C-
<b>Minimum Percent:</b>	69.5
<b>Letter Grade:</b>	D+
<b>Minimum Percent:</b>	66.5
<b>Letter Grade:</b>	D
<b>Minimum Percent:</b>	62.5
<b>Letter Grade:</b>	D-
<b>Minimum Percent:</b>	59.5
<b>Letter Grade:</b>	F
<b>Minimum Percent:</b>	59 and below

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## **Guiding Practices:**

### **Multiple and Varied Assessment Opportunities**

All students should have multiple and varied assessment opportunities to demonstrate higher levels of achievement. Additional opportunities may include being reassessed on only the content/skills not mastered, spiraling assessment of content/skill on subsequent assessments, reassessment of an alternate form of an assessment (e.g., Form B instead of Form A), student revisions of work products based on descriptive feedback, or alternative methods of assessments (e.g., an oral response rather than a written test).

Guidelines for reassessment opportunities include the following:

- Students will be provided the opportunity to be reassessed - best practice is to provide additional opportunities for students to demonstrate learning during future assessments.
- Teachers determine appropriateness and authentic need for reassessments.
- Reassessment method will be provided at the discretion of the teacher.
- Reassessments will be given within a reasonable time frame that the teacher determines and students will be communicated with in advance.

### **Homework / Independent Practice**

Homework is an opportunity for students to practice skills, apply knowledge, review and build on past learning, and extend learning. Homework is individualized and based on each student's progress towards established standards. The purpose of the assignment will determine whether or not a grade is given and will be clearly articulated to students. Through independent learning tasks (homework), students assume more responsibility for their learning and are given opportunities to apply what they have learned to new situations or experiences.

### **Extra Credit and Bonus Points**

To ensure that grades reflect progress toward and achievement of the standards, giving extra credit points or bonus points will not occur in this class.

### **Behavioral Expectations**

The work habits/behavior standards are for grades 6-12 courses in our district. These work habits/behavior standards will be reported throughout the semester and are as follows:

- Organization and Readiness
- Productivity and Accountability
- Collaboration Skills

For those of you accessing this document electronically, the work habits tool can be accessed [here](#). We will be using the following performance levels:

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## **Performance Levels for Work Habits/Behavior Standards:**

**MS** = Meets Standard

**PM** = Partially Meets Standard

**DM** = Doesn't Meet Standard

**NE** = No Evidence

These descriptors are intended for feedback and communication and do not impact a student's GPA.

## **Formative and Summative Assessment:**

### **Definitions**

- **Formative Assessment:** Formal and informal processes teachers and students use to gather evidence for the purpose of improving learning.
- **Summative Assessment:** Assessments that provide evidence of student achievement for the purpose of making a judgment about student competence or program effectiveness.

## **Electronic Device Policy:**

Electronic Devices are not to be used in the classroom. There will be no games, Facebook, Twitter, other social media, etc. If electronic devices are used for such purposes, the student will be asked to put it away. If improper use continues, PBIS procedures will be followed.

*All Major (Extreme) Behaviors are managed by an administrator.*

## **Instructional Delivery:**

Lecture, discussion, study guides, assigned drawings, powerpoint presentations, related videos, demonstrations, and guided practice completing mechanical drawings.

## **Beginning House Design (Frameworks and Benchmarks):**

- Demonstrate knowledge of the drafting and design industry.
  - Identify and describe the training, qualifications, and advancement opportunities in the drafting and design industry.
  - Describe the job outlook, projections, and earnings for workers in the design and drafting occupations.
- Demonstrate knowledge regarding the essential components of sustainable design and construction.
  - Define the key principles of Green Building.
  - Define various components of energy consumption in your home design.
  - Identify the key benefits of Green Building.
  - Develop a site plan for your home that protects trees and manages water and erosion.
  - Explore AIA standards used for design and construction of your home.

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- Identify local geographical climatic, and meteorological data.
- Describe the basic physical principles that apply to the built environment.
- Demonstrate knowledge regarding the interpretation of information from drawings.
  - Describe the impact of globalization on drafting and design.
  - Utilize a combination of measurement and mathematical processes to solve linear and solid shape problems related to drafting and design.
- Understand and use basic drafting techniques.
  - Use architectural, metric, civil, and mechanical engineer's scales and demonstrate scaling techniques.
  - Identify and draw the various line types.
  - Demonstrate correct lettering techniques (freehand or CAD).
  - Reproduce drawings (e.g., blueprints and plots).
  - Perform basic geometric constructions.
  - Apply basic dimensioning techniques.
  - Identify common manufacturing and construction materials.
- Use computer and peripheral devices to aid in the documentation for design projects.
  - Demonstrate basic CAD operations.
  - Demonstrate proper care and maintenance of CAD equipment and software.
  - Demonstrate proficiency in creating two-dimensional and three-dimensional CAD drawings.
  - Demonstrate proficiency in creating three-dimensional CAD modeling.
- Apply technical drawing skills to actual projects.
  - Construct an architectural presentation drawing with site plan (i.e., landscape symbols), floor plans, building elevations, and wall sections.
  - Construct various section and detail drawings (i.e., stairs, walls, roofs).
  - Construct interior and exterior elevation drawings.
  - Develop, construct, and dimension a residential floor plan layout.
  - Construct foundation/basement plans.
  - Prepare window, door, and finish schedules.
  - Construct a building perspective drawing.

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**STUDENTS: I have read the Syllabus. I understand it and will honor it while in this class.**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**GUARDIANS: We have discussed the Syllabus. I understand it and will support these rules.**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**If, for any reason, you have questions, please contact the instructor.**

**District Office 306 SW School Street PO Box 189 Ankeny, IA 50021-0189  
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