

Architecture Drafting 2017-18
Desert Hills High School

Instructor: Mr. Wilson

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Room: Wood shop classroom

Course Description

This class is designed for those desiring to pursue engineering or drafting as a career. Emphasis is placed on work-life experiences in industry. This class will focus on the Architectural industry, which includes becoming aware of what constitutes a good house plan. Students will be introduced to architectural design fundamentals, design a residential floor plan, design footing and foundations, draw elevations, draw stair details, fireplace details, electrical plans, complete a door and window schedule, and a finishing schedule. The student will be using Auto CAD which is a 1,2 & 3D modeling program to draw their house plans

Units cover the following:

1. Understand, demonstrate, and apply mathematics and measuring skills.
2. Understand and demonstrate the use of the alphabet of lines.
3. Understand and demonstrate sketching techniques.
4. Understand and develop multi-view drawings.
5. Understand and demonstrate the use of geometric construction.
6. Know and follow ANSII15.5 dimensioning standards to apply the appropriate dimensions to drawings.
7. Understand and use 2D/3D computer software to create technical drawings.
8. Manipulate drawings using CAD software.
9. Gain and understanding of Design Technology as a profession and will develop professional skills for the workplace.

Student Expectations

Because of the nature of drafting and the equipment that is required, there will typically be minimal homework assigned for this class. There will be a couple of actual homework assignments when we study the history of Architecture and design fundamentals. Conversely, students are expected to be present during class time and to take full advantage of class time to focus on work throughout the class period.

Each student will design a two-story home and complete a full set of drawings. The bulk of the work in this class will comprise of assigned drawings. There will be a few non-drawing assignments pertaining to things such as industry standards and the History of Architecture. Homework assignments will typically be graded and returned within one week of submission. Assignments may be resubmitted until the student achieves the grade that they want for the assignment. Each assignment will be given different point values based upon the size, scope, and difficulty of the assignment. Every major project will be given a rubric for grading purposes.

Because the state requires certain criteria to be taught about Architecture all assignments, worksheets, and drawings must be turned in. If the student fails to turn in any of the assignments given he/she will receive an F for the course.

Attendance

Each student will be given 10 points for every class period for participation. The Student will receive these points for being on time for class and participating in the day's activities. Daily points lost due to unexcused absences and trancies cannot be made up. Students who miss part of class without a valid reason will lose the daily points. Time missed with a valid reason will only receive 5 points from daily points. The other 5 points must be made up at the lunch and after school labs. *Attendance Standards* will be strictly enforced.

Time Clock

Students will utilize a time card to track attendance and participation points. Students are expected to clock in when they arrive in class and clock out when they leave. Students are also expected to write a brief note about what they worked on during the class. Failure to do so will result in loss of participation points.

Grading

Points will be given for participation, assignments, quizzes, drawings, and homework. There is no curve for this course. Students are graded on their own unique personal works.

Grading Scale:

A	95-100	B-	80-82	D+	67-69
A-	90-94	C+	77-79	D	63-66
B+	87-89	C	73-76	D-	59-62
B	83-86	C-	70-72	F	Below 59

Equipment

Students will be using computers with Auto CAD, which is a 1, 2 and 3D modeling software. Because of the nature of equipment in the classroom students will not be allowed to eat or drink in class.

Also, because the computer can crash with this program an external flash drive is highly recommended for backing up your work.

Materials needed:

Students will be required to come each day prepared with something to write with (pencil strongly recommended). As architects, we always take and keep notes and sketches of our projects. Therefore, a 3 ring binder with lined and graph paper will be necessary. Students will be graded on their notes and sketches.

The information and policies in this document are subject to change by the teacher with written notification to the students. All changes are non-retroactive and will only apply to events following the given notice.

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Desert Hills High School

Parent/student Permission and understanding slip 2017-18 year

I have read and understand the information outlined above about the Desert Hills High Architecture program.

Parent or guardian _____ date _____
(Signature)

Please print name) _____

Student _____ date _____
(Signature)

Please print name) _____