



Course Syllabus	
Franklin High School	2019-2020
Course Title: Architectural Drafting and Design	Grade Level(s): 10-12
Prerequisites: Grade 10 or higher, no others.	
Course description: Students will become familiar with architectural drawing and design concepts including print reading, drawing standards, space creation, basic structural engineering concepts, architectural history and architectural styles.	
<p>Standards:</p> <p>Learning objectives. Students will:</p> <ul style="list-style-type: none"> • Read, interpret and draw residential architectural plans, sections, and elevation drawings. • Perform basic calculations relative to architectural design. • Become familiar with materials used in residential and light commercial construction. • Create a model or models of architectural structures. • Conduct experiments with building materials. • Explore careers in and related to Architecture. • Learn about architectural styles and explore architectural history. • Utilize CAD and Sketchup for making electronic drawings and models of structures. • Develop vocabulary of terms common to the architecture and construction industry. 	
<p>Schedule of topics/units covered:</p> <ul style="list-style-type: none"> • Lectures on relevant topics • NAWIC design competition • Guest speakers • Field trip or trips • Hands-on drawing and creation of student designed project. • Independent research • Model building • CAD and Sketchup 	
<p>Differentiation/accessibility strategies and supports (TAG, ELL, SpEd, other):</p> <p>Differentiation and accommodation are handled on a student by student basis. Examples include alternate projects, supplemental training material such as step by step worksheets, physical models, individual instruction during tutorial times and breaking down of projects into small steps.</p>	

Final proficiencies:

Students will demonstrate proficiency in:

- Hand and computer aided drafting and design. Students will draw a set of legible, code compliant house plans utilizing board drafting and CAD skills.
- Utilizing Sketchup to create an electronic 3d model of a simple structure.
- Students will research and present to the class a style of architecture.
- Knowledge of building materials.
- Basic site layout. Students will measure and lay out the footprint of a house when given a site plan.

Assessment (pre/post)/evaluation/grading policy:

Grading:

- Quiz and test scores
- Quality and thoroughness of completed drawings, models and Sketchup models
- Research projects
- Reflections on guest speakers and field trips

Behavioral expectations: All students will be required to read and sign the following document:

Part 1 Behavior Expectations:

1. **NO CELL PHONE OR OTHER PERSONAL ELECTRONICS MAY BE USED AT ANY TIME IN ROOM S-140 WITHOUT INSTRUCTOR PERMISSION. This includes passing time. THIS IS YOUR WARNING!** Devices will be confiscated and sent to the office.
2. Any student suspected of being under the influence of drugs or alcohol will be referred to school security.
3. Students will do their own work or their team's work only. Working on another student's project is the same as doing their work for other classes.
4. Students must ask permission to use the restroom. The restroom in S-140 is staff only. Only one student at a time may leave to use the restroom.

5. Students will work on APPROVED projects only.
6. Projects and/or other materials may be removed from the shop WITH INSTRUCTOR'S PERMISSION ONLY.
7. No running or horseplay is allowed in the shop.
8. Stealing or damaging school property or other students' property is will not be tolerated.
9. Use machines, tools and other equipment only for the purpose which it was intended.

Part 2 General Safety Regulations. Safety rules must be followed at all times!

1. Stay one arm's length from people working on projects. This includes at the bench and/or at a machine.
2. Do not throw or toss things. Anything.
3. Students must prepare for work each day by assuring the following: closed toed shoes worn, long hair tied back, loose clothing and jewelry secured, safety glasses on.
4. All students must be checked off on any machine before using it. This includes passing the machine-specific safety test for each machine.

Consequences for breaking shop policies:

1st offense: Warning.

2nd offense: Conference with student.

3rd offense: Parent phone call.

4th offense: Office referral and final chance. ***NOTE: serious offenses such as theft, vandalism or cheating will automatically fall into this category regardless of previous record.***

5th offense: Student will be permanently removed from the class-it is assumed that any student who reaches this point poses a serious safety or security threat to themselves, other students or the facility.

Date

Description

1st Offense _____

2nd Offense _____

3rd Offense _____

4th Offense _____

STUDENT PLEDGE. I understand the behavior expectations, the general safety rules and the consequences for breaking shop policies.
I also understand that using power tools is a privilege and that power tool privileges may be temporarily or permanently suspended by the teacher if safety and behavior expectations in class aren't met.
I will follow these rules and policies for my safety, the safety of others and out of respect for the school and teacher.

Safety issues and requirements:

All students must pass a hands-on and written safety test for all machines that they may be operating.

All students must conduct themselves in a safe, professional manner as outlined in the behavior expectations.