

## **Technology Education Department Architectural Design Syllabus**

**Course Description** – This course is designed to give the students a general understanding of architecture. We will cover the following topics: history, elements and principles of design, the use of an architectural scale, the use of SoftPlan to generate the architectural prints of a house, and the construction of a model house.

**Textbooks** – Architecture - Drafting and Design: Hepler, Wallach, Hepler  
Soft Plan Tutorial

**Grading** – Grades will be based on school grading scale.

**Course Objectives** - Upon completion of this course, the students will be able to:

- Identify the different styles of architecture.
- Understand the principles and elements of design.
- The proper usage of building codes and zoning laws.
- Accurately use an Architectural scale.
- Show they are competent on the CAD software.
- Design a functional 1800 sq. ft. house.
  - Foundation Plan
  - Floor Plan
  - Front Elevation
- Design a functional 2500 sq. ft. house.
  - Plot Plan
  - Foundation Plan
  - Floor Plan (2 story if needed.)
  - Appropriate Elevations
  - Window and Door Schedule
  - Spec sheet
- Create a 3-D model of the 2500 sq. ft. house
  - Materials list needed for model
  - Daily Log
  - Timetable for construction
  - Landscape lot properly

### **Classroom Rules-**

1. All attendance/class participation guidelines, which are stated in the student handbook & daily planner, will be followed in this course.
2. The student must be seated with all materials needed for class before the bell rings. If the student is not seated before the bell rings the instructor will consider the student tardy. If the student is held up by another instructor or administrator please get a pass from that person, right away, and the tardy will be taken off.
3. If the student fails to bring necessary materials to class. The instructor will **NOT** give permission for the student to go back to his/her locker, or any place else, to retrieve the materials for any reason at all!

4. If for any reason the student receives a detention in the class. It will be served the following day either before school or after school. If a student can't make it that day, it is the student's responsibility to make arrangements with the teacher. If the student fails to show up for the first one, the time is then doubled for the following day. If the student still fails to show for detention, a referral will be written and turned over to student services.
5. The student is required to follow all safety rules and procedures that have been given by the instructor. If for any reason the student disregards these instructions and/or procedures and puts himself/herself or fellow classmates into **Danger** the instructor will remove the student immediately from the class/shop for that period. At a later date the instructor and the school's administrator will determine if the student can return to class or will be removed from the class. If the student is removed from the class he/she will be given a grade of "**F**" for the entire semester.
6. All projects are to be made in class. Projects may be taken home on weekends or with prior instructor approval. You need to be working in class!!!!
7. Rules of "Common Courtesy" will be enforced. They include paying attention, not talking while others are, raising your hand to be recognized to ask or give answers.
8. No possession or use of electronic devices in the classroom or shop without the permission of the instructor.
9. The dress code will be enforced that is stated in the student handbook. This means **NO** coat will be worn in the classroom and/or shop. Unless the coat is required for class assignments.
10. There will be **NO** food or drink allowed in the classroom or shop.

**Materials:**

1. An 8 ½" x 11" notebook or binder for notes or written assignments is advisable.
2. Pencils & pens to write with is a must- the instructor will **NOT** provide them.
3. You will need to purchase or make materials for your model.
4. You will need to supply your own hot glue gun and glue sticks for your model.
5. **Flash Drive – back up your files!!!!!!!**