

## **Course Title: Technology Education 8** (grade 8)

**Course Description:** This class will introduce students to communication and information, construction and manufacturing technologies. Systems, processes, materials safety, tools and machines will be studied. Projects will include manufacturing of a small product and a group designed and constructed model of an energy efficient dwelling.

### **Course Outline:**

- Use the design process to develop a detailed plan for a product.
- Manufacture a product using mechanical processes from this detailed plan.
- Safely use tools and machines in a sequence to achieve results.
- Apply technology to specific tasks.
- Gather and evaluate information from electronic and written sources.
- Show knowledge of relevant technical vocabulary.
- Individual and group problem solving techniques.

**Course Schedule/Assignments:** Class is one trimester in length and 55 minutes per day. Assignments include study in:

- Problem solving skills (hands on application of knowledge to achieve a solution).
- Basic principles of design.
- Knowledge of systems (methods using logic and creativity to meet specific goals).
- Generating products using modern manufacturing techniques.
- Energy Efficiency and conservation

### **Course Grading Criteria and Grading Scale:**

**A** = 90 – 100%

**B** = 80 – 89%

**C** = 70 – 79%

**D** = 60-69%

### **Course Expectations:**

Work within the boundaries of the class rules to complete homework and lab projects **of the highest quality in a timely manner.**