

# **SURVEY OF INDUSTRIAL TECHNOLOGY**

**DEPARTMENT:** Special Education, team taught with regular education teacher in the industrial technology department

**SUBJECT:** Survey of Industrial technology

**GRADE LEVEL:** 9 – 12

**CREDIT:** 1 per semester

**PREREQUISITE:** Placement in the Special Education program

**COURSE DESCRIPTION:** This course is designed to give students a basic background knowledge to the industrial technology department. Each of the following will be taught for a nine week period: Small Engines, Metals, Construction, Measurements and Drafting.

## **UNITS OF STUDY/ COURSE OBJECTIVES:**

- Students will understand the theory of internal combustion engines.
- Students will demonstrate the knowledge of the parts of a small engine.
- Students will experience hands on activities with small engines.
- Students will understand the basics of all three of the following:
  - machining, sheet metal, welding.
- Students will become familiar and demonstrate the knowledge of woodworking tools, machinery and concepts.
- Students will gain this information through hands on project building.
- Students will demonstrate the basic knowledge of mathematical measuring and reading various measuring devices
- Students will create simple mechanical drawings to demonstrate a practical application of mathematical measuring.

**INSTRUCTIONAL TECHNIQUES:** The course will include a variety of methods to increase the basic knowledge of industrial technology. Independent projects, daily work, lab/shop activities, quizzes, and homework will be included. Specific teaching techniques for individual learning styles will also be incorporated.

**GRADING POLICIES AND PROCEDURES:** Individual and adaptive grading based on each student's needs will be used.

**TEXTBOOK:** A variety of materials will be used from various texts.

**SUPPLEMENTAL MATERIAL:** Teacher generated materials will be used as well lab materials.