**Introduction to Engineering Design**

**Class Standards**

**Course Description**

Introduction to Engineering Design is for students who are interested in design and engineering. IED gives students the opportunity to develop skills and understanding of engineering concepts through activities, projects, and problem-based learning. Students will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students use a state-of-the-art 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to take an idea through the design process that will eventually be manufactured or produced.

Topics to be studied include: The Role of the Engineer, The Design Process, Product Design, Product Analysis and Improvement, and Designing as a Engineer.

**Essential Standards**

1. Use and apply the problem solving design process, appropriate math and science skills, and specific software techniques.

2. Solve a variety of engineering design problems by applying their knowledge of the problem solving process.

**Student Expectations**

Please Be On Time

Be Respectful to Everyone

No Swearing

Make Your Best Effort All The Time

**Materials Needed**

Textbook and Materials, Handouts, Worksheets and Student Portfolio

**Student Evaluation**

**Students have the opportunity to earn college credit by averaging 85% for both trimesters of the course and scoring high enough on the comprehensive final exam.**

Individual grades earned throughout the term on daily activities and Design Projects

**Fire Alarms & Lockdown**

All students must evacuate the classroom when the alarm sounds.

Stop working and leave as quickly as possible.

Follow all school lockdown procedures

**Attendance**

All current Kennedy High School Attendance Policies will be followed.

**Hall Pass**

Students are expected to have a valid hall pass with them at all times when they are out of class.

No pass during the first 10 minutes or the last 10 minutes of class time.

Students found without a pass will be marked unverified for that class period.

**Reserve Teacher**

The Reserve teacher will be given direction for the class.

Respect is very important when the reserve teacher is here.

A written report will be made for the instructor covering the conduct of the class.