

**STAMFORD HIGH SCHOOL**

**COURSE DESCRIPTIONS AND CLASS EXPECTATIONS**

**2017-2018**

Please **read and sign** indicating that you have read and agree with the information,

procedures and policies in the course description and classroom expectations. Return the completed form to your son/daughter’s teacher as soon as possible.

I have read the course outline completely for the following course:

***Engineering Fundamentals*** and will maintain academic excellence by adhering to all expectations set forth by the classroom teacher and Stamford High School.

Student Name (Print): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher Name: \_\_\_Mr. Scianna\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have read the course description and classroom expectations for the following course:

***Engineering Fundamentals*** and understand the requirements and expectations of my son/daughter in this course. I will encourage my son/daughter to arrive to class on time, complete all assignments to the best of his/her ability, and support academic excellence.

Parent/Guardian Name (Print): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact Number (Home/Cell): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Engineering Fundamentals**

Mr. Scianna Room 256

Online Notes and Resources: sciannamath.weebly.com

**General Information on Stamford High School (SHS)**:

The Stamford High School faculty has created the following **21st Century** **Learning Expectations** and will work together to ensure that all students master these skills at a proficient level (or above) by the time they graduate in preparation for college and/or the workplace. Students will have the skills and knowledge necessary to:

Academic expectations:

1. Read and understand complex texts from all content areas, including visual texts, in order to extract information from them.
2. Write cohesively and cite evidence when synthesizing information from multiple texts.
3. Use critical thinking skills to analyze, interpret, and solve multi-step real-world problems.
4. Conduct research to build and present knowledge individually or in groups.

Social expectation:

1. Develop an understanding of a healthy intellectual, physical, social, and emotional lifestyle.

Civic expectation:

1. Develop an understanding of the meaning of citizenship.

**Course Information**:

This course examines the field of engineering, introducing students to the engineering design process as well as to the most common engineering disciplines. Emphasis is on solving introductory design problems in these disciplines as well as learning about engineering as a profession.

**Classroom Expectations:**

Be punctual:

Students will come to class on time and be in their seats ready to work when the class starts. This means that they will have books out, pen or pencil, calculator, and paper ready when the bell rings. Any homework assignments will be ready at the beginning of class as well.

Be respectful:

Students are expected to be respectful of other people and their property. They will observe proper decorum in the classroom and the computer lab.

Be perseverant:

Students are expected to persevere in learning the mathematics of every topic in this course and persist in working to find solutions to all problems used in the course.

**Homework:**

When homework is assigned must be completed by the next class unless told otherwise. It must be neat (legible) and *all work must be shown to get credit*. If you are absent on the day that an assignment is given, you are still responsible for it. Email me or your partners to get the details of the assignment(s).

**Use of Technology in the Classroom:**

The SHS Acceptable Use of Technology Policy will be followed in this course. Use of the camera and recording feature of any electronic device is not permitted in this classroom; so capturing, recording, or transmitting audio, video or still photos of students, faculty, or staff is prohibited.

Students will follow school policy on technology when any hardware is used in the classroom.

**Evaluation:**

This class is project oriented and a students’ grade will be based on the quality of his/her in-class and out-of-class projects as well as class participation.

The final grade is determined as follows:

Quarter 1 40%

Quarter 2 40%

Final 20%

**Course Outline:**

**Unit 1: Civil Engineering**

* **Structural**
* **Transportation**
* **Environmental**

**Unit 2: Mechanical Engineering**

**Unit 3: Computer Engineering**

**Unit 4: Electrical Engineering**

**Unit 5: Aerospace Engineering**

**Unit 6: Biomedical Engineering**

**Unit 7: Chemical Engineering**

**Unit 8: Industrial Engineering**