

Principles of Engineering

Project Lead the Way

Instructor	Chris Patterson	Room	A204
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Tutorial Hours	Before / After School or by Appt.	Phone	469-633-6785 x- 66783
Conference Period	2 nd Period (10:30-12:00)	Website	TBA

Course Description:

This course studies the field of engineering technology. Exploring various systems and manufacturing processes helps students learn how engineers and technicians use math, science and technology in an engineering problem-solving process to benefit people. This course also includes concerns about social and political consequences of technological change.

Course Outline:

Unit 1: Definition and Types of Engineering

Unit 2: Communication and Documentation

Unit 3: Design Process

Unit 4: Engineering Systems

Unit 5: Statics and Strength of Materials

Unit 6: Materials and Strength of Materials

Unit 7: Engineering for Reliability

Unit 8: Kinematics

Grading Policy:

- A. Major Grades (tests and projects) – 50%
- B. Minor Grades (quizzes, drawings, etc...) – 30%
- C. Daily Grades (homework, project check offs) – 20%

Late Work:

- A. Major Grades, Minor Grades, Daily Grade
 - a. 15% taken off if turned in the next day. It is your responsibility to get me the assignment.
 - b. 30% taken off if turned in the next time the class meets.

Class Attendance:

Good attendance is a very important aspect of this course. The school furnishes all students with the necessary equipment and time to complete assignments in class. Due to the expense of the equipment the school is unable to purchase extra equipment for the students to check out to make up work. I will be available before or after school for students to make up work in the classroom. If you miss a day of class, you have one class day to make-up that work. Students with excessive absenteeism will have great difficulty completing assignments, which may result in failure.

Classroom Expectations and Rules:

- 1. Come to class ready to work.*
- 2. Respect not only you but others and their property.*
- 3. Remember you get out of this class what you put into it.*

Consequences:

First Offense-----Student will be given a verbal warning and notified of expected behavior.

Second Offense----Student will have a one-on-one conference with teacher.

Third Offense-----Parent receives letter home/phone call describing offenses

Fourth Offense-----Referral

Academic Honesty Statement

Learning and teaching take place best in an atmosphere of intellectual openness. All members of the academic community are responsible for supporting freedom and openness through rigorous personal standards of honesty and fairness. Plagiarism and other forms of academic dishonesty undermine the very purpose of Hays High School and diminish the value of education.

Supplies:

- Folder with pockets
- Colored pencils for sketching
- Engineering notebook (for sale in CTE Store)
- Optional thumb drive or jump drive (suggested 1G)
- Other materials may need to be purchased depending on project