Principles of Engineering Syllabus

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Instructor	Email
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Class Description

Principles of Engineering is the final engineering course offered at Jasper High School. It is a challenging course filled with many facets of engineering as a whole. This course will thoroughly introduce you to real-world engineering challenges and will help you to determine what field(s) of engineering you may find a future in.

Expectations

My expectations in this class is for all of you to treat it like a team effort. We will be a team of engineers that are solving the many challenges provided by Principles of Engineering. You will need to be especially attentive and motivated to do well in this course, but the reward will be a fun science credit and real experience that could lead to a very lucrative job.

Course Materials

We will be using your personal Chromebooks and the Engineering Laptops extensively in this class. We will also be using Engineering sketchbooks. Building materials will be provided to you.

Course Overview

Unit	Topic
1	Energy and Power
2	Materials and Structures
3	Control Systems
4	Statistics and Kinematics

These units will be comprised of tests, quizzes, class projects, and daily grades. The tests and quizzes should be fairly challenging. The daily work and class projects will be graded graciously as long as full participation and effort is made. The goal of class projects will be to further our collective understanding of engineering. Failure to participate will result in a poor grade.

Grading Policy

Due to the varied nature of this class, the grading policy will be lenient, but firm. I will give ample time to complete assignments, but if I give a hard deadline for something, it won't be extended.

Cheating Policy

I do not accept cheating. **There will be serious penalties for all parties involved if cheating is discovered.**

When exams or quizzes are taken, phones will be kept away entirely. Using your phone for any reason while taking an exam or quiz will result in a zero. Tests will be given on Schoology. For that reason, being on any other webpage during a test will result in a zero.

I intend for every single one of you to get excited about engineering and make a great grade in my class. You may make a bad grade on a test every now and then. That is perfectly fine and will be met with opportunities for grade improvement. Making zeros from cheating will hurt your grade far more.

Cellphone Policy

As stated before, this class will be a group effort. If one of you is not participating because of cellphone use, then your grade for group efforts will be penalized and your phone may be confiscated. This class will be an environment analogous to a team of professional engineers and professional courtesy must be adhered to.