

League Academy

Engineering Essentials Syllabus

Teacher: Colby Corn

Room Number: 212

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Credit: 1 credit

Course Description: PLTW- ENGINEERING ESSENTIALS Unit: 1 Grades: 8 Engineering Essentials is a brand-new course designed as a first-exposure experience to inspire students of all backgrounds to explore the breadth of engineering-related career opportunities. Throughout the course, students explore global engineering challenges and sustainability goals, the impact of engineering, and the variety of career paths available to them. Engineering Essentials is geared toward a first-year engineering high school student.

Course Standards: Click [HERE](#) for link to standards

Course Outline/Pacing:

Unit 1: Inclined to Design	45 days
Unit 2: Make it Move	45 days
Unit 3: Power it Up	45 days
Unit 4: Make a Plan	45 days

Texts/Supplementary Materials:

Materials can be accessed through mypltw.org website with student username and password.

Student Materials:

Scientific calculator

Student computer

PLTW software

Assessment Plan and Grading Procedures:

Category	Weighting
Minor – Summative Tests	40%
Major-Summative Projects	60%
Exam	10%

Final Course Grade = 1st Semester 45% + 2nd Semester 45% + Final Exam 10%

Grading Percentage and Quality of Work:

Grade	Scale	Description of Work
A	90-100%	Consistently demonstrates an exceptional level of quality and effort. Having all work in on time and completed to exceed expectations. Mastery in evaluating, synthesizing, and applying content principles.
B	80-89%	Consistently demonstrates proficient knowledge with a good effort and quality of work. All assignments are complete and on time. Demonstrates the ability to evaluate, analyze, synthesize and apply content principles.

C	70-79%	Demonstrates proficient knowledge and the ability to apply and analyze content principles. Work shows average effort. A few assignments may be missed or late.
D	60-69%	Work shows minimal effort and some assignments are late. Demonstrates a basic understanding of recalling or comprehending content principles.
F	Below 60%	Understanding is below basic in relation to content principles. Work is of poor quality and does not meet standards or expectations.

Class Rules and Expectations:

Rules:

Be on time

Be prepared for learning

Be respectful

Expectations and Procedures:

Starting class: We will begin each class with Greetings and Good Things.

Lesson: During the lesson you will be actively engaged in the learning by completing the guided notes and practice problems. Electronic devices, other than your laptop, will not be permitted.

Activities: Learning activities follow each lesson. These activities are crucial for successful completion of projects and tests. It is expected that you will do your own work even when working with a group. Electronic devices, such as cell phones may be used during this time.

Projects: During scheduled project dates, we will forgo the bell ringer. Upon entering the room, pick up your supplies and begin working on your project. Raise your hand if you have questions or concerns. Project ending dates must be strictly adhered to. In the event more time is needed, please use ILT.

Ending class: I reserve the right to, randomly, end class with an exit ticket. The exit ticket will be used as a daily assignment.

Just a friendly reminder, the bell does not dismiss you. The adult in the room will let you know when you are dismissed.

Electronic Devices: Your electronic devices are not allowed during instruction or minor assessments.

Attendance: Attendance will be taken each day during the first 10 minutes of class.

Tardiness: Timeliness limits distractions and ensures you are getting all the material needed for successful completion of Digital Electronics. Please make every effort to be on time for class. The tardy policy is strictly enforced.

Hall passes: Passes will not be issued during instruction.

Bathroom pass: one person may leave the class at a time to use the restroom.

Student bathrooms and passes are coded by color; student must use the bathroom that corresponds to the pass color.

Other passes: Students must have a signed, written pass, in order to leave the classroom.

Makeup work: Students will have 3 days upon returning to school to complete and submit their makeup work.

Interventions and Opportunities for Extra Help:

Please schedule a meeting with me during ILT for extra help.

Quarter 1 recovery will consist of completing all missing assignments , including tests and projects, with a passing grade. Upon successful completion of all work at the scheduled time, a grade of 60% will be entered into the gradebook

We expect all students to adhere to the following principles of academic integrity in all district courses:

1. **Honesty:** Students must represent their work honestly, taking full responsibility for their words and actions. They must not present others' work or the work created by or with the assistance of artificial intelligence, as their own, nor should they provide false information or engage in any form of plagiarism.
2. **Respect:** Students must respect the intellectual property of others and acknowledge all sources used in their work. This includes proper citation of quotes, ideas, images, and other materials from any source.
3. **Responsibility:** Students must take responsibility for their own learning, and they must not engage in any form of cheating or academic misconduct. They must not collaborate on work unless specifically allowed by the instructor, and they must not provide unauthorized assistance to others.
4. **Fairness:** Students must respect the rights of their peers, and they must not engage in any behavior that unfairly advantages themselves or disadvantages others. This includes the use of unauthorized materials during exams or assignments, and the sharing of answers or solutions with others.