

**Ben L. Smith High School**  
***The Academy of Advanced Manufacturing and Engineering***  
***PLTW - Environmental Sustainability - 11<sup>th</sup> Grade Syllabus***  
**~Mrs. Hill ~ Room 501**

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***Course Overview:***

In PLTW Environmental Sustainability students will investigate environmental issues and use the engineering design process, both individually and collaboratively, to research and design solutions to real-world challenges. As students tackle challenges related to clean drinking water, stable food supply, and renewable energy, they will learn valuable technical skills like designing experiments and documenting their designs. Students will also practice important professional skills such as collaborating, communicating, and presenting their solutions.

***Course Units:***

Unit 1: Environmental Sustainability for a Better Tomorrow  
Unit 2: Ensuring Safe and Abundant Water  
Unit 3: Food Security  
Unit 4: Renewable Fuels

***College Credit Opportunities:***

High school students who take the new EOC Assessment will receive a detailed score report that highlights their subject-matter knowledge and mastery of in-demand, transportable skills. Students can use their test results to strengthen college applications or resumes or can send their score report directly to higher education institutions and employers, who may use it for admissions, scholarships, dual credit opportunities, campus experiences, internships, apprenticeships, industry certifications, and more.

***Class Supply List:***

- 2 packs of black or blue ink pens
- Glue Sticks (2)
- Headphones
- \*\*All students will be provided with an Engineering notebook to be used in class daily for expressing their thoughts, ideas and learned information. \*\*

***Technology Components and Additional Resources:***

There are various online educational resources utilized in this class. It is strongly recommended that students have technological devices to access these resources.

- Online student portal ([www.mypltw.org](http://www.mypltw.org))
- Canvas (<https://my.ncedcloud.org>)
- Onshape (<https://learn.onshape.com>)

***Class Expectations:***

Remember to listen when others are speaking.

Everyone has the right to their own opinion.  
Strive to form a safe, caring classroom community.  
Participate, come to class prepared and have fun.  
Encourage one another and be a positive leader.  
Challenge yourself and try new things.  
Take responsibility for your actions.

***Class Consequences:***

1st Offense: Warning (Verbal)

2nd Offense: Parent Call/Conference

3rd Offense: Lunch/Afterschool Detention

4th Offense: Administration Referral

\*Severe disregard for school or classroom expectations (i.e., fighting), will result in an automatic referral to administration. \*

***Grading System:***

Nine-week grades will be calculated based on the average grade earned in the following categories:

Classwork - 40%

Homework/Engineering Notebook – 20%

Projects/Tests – 30%

Quizzes – 10%

Final Exam - 20%

***Late/Make-up Work Policy:***

All work must be completed and submitted on time. I will accept late work; however, points will be deducted. For excused absences, students will be given two days for each day absent to make up work. It is the student's responsibility to get all assignments when he/she is absent.

***Academic Honesty:***

Any work submitted by the student shall be his/her own. Work taken from others is unacceptable. Any doubts will commence the completion of an alternative assignment or a zero on the submitted work.

***Electronic Devices:***

Use technology devices appropriately and **only when given permission from the teacher. Electronic devices are otherwise prohibited.** (Refer to GCS Electronic Device Policy)

***Parent-Teacher Communication:***

Parent-Teacher communication can significantly impact a student's long-term success and increase parent engagement and involvement in class and school wide events. To stay connected and receive information sign up with ***Remind***.

***Safety Statement:***

In this course students will have the opportunity to use various tools and equipment. Appropriate instruction in the safe operation of these tools and equipment is given and close supervision is

maintained at all times. Although every precaution is taken to prevent accidents, a certain risk is involved due to the nature of the experience, the age of the student, and the learning environment. I am asking for your cooperation in impressing upon your child the importance of being careful. This will back up the instruction that is given in school to **“THINK SAFETY”** at all times.

Let's have a great year!

Sincerely,  
Mrs. Hill

*The best way to predict the future is to create it!*