
PLTW INTRODUCTION TO ENGINEERING DESIGN (IED)

2025 - 2026

CLASS INFORMATION

Teacher:	Mrs. Sara Bartley
Room:	115
Email:	sbartley@greenville.k12.sc.us
Phone Number:	864.355.5894
Website:	Go to the Greer High School website. Continue to the "Staff" tab and look for Sara Bartley.

MATERIALS NEEDED

1. One Composition Book with Graph Paper Pages, if possible (Marbled Cover)
2. Calculator (either scientific or graphing types preferred, no phones!)

COURSE INFORMATION

TEXTBOOK

Digital textbook from PLTW Engineering will be available on the student's Chromebook.

DESCRIPTION

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work.

OUTLINE AND PACING

This course outline is intended as a guide only in assisting the teacher in planning units of instruction. When necessary, adjustments to the material covered will be made.

1. Design and Problem Solving: 4 weeks
2. Assembly Design: 5 weeks
3. Thoughtful Product Design: 4 weeks
4. Making Things Move: 5 weeks

GRADING SCALE

A: 90 - 100 B: 80 - 89 C: 70 - 79 D: 60 - 69 F: 59 or below

Quarter Grade Breakdown
Major Grades (Tests and Projects): 60%
Minor Grades (Quizzes and Classwork): 40%

Major tests can include cumulative tests over several topics or chapters, as well as, projects. Quizzes can include announced and unannounced quizzes over material covered in class and assigned for classwork. Classwork will be graded for effort and occasionally for accuracy.

CALCULATION OF FINAL GRADE

The final grade for this course will be determined as follows:

Course Final Grade
1 st (or 3rd) Quarter Grade: 45%
2 nd (or 4th) Quarter Grade: 45%
Final Exam: 10%

ATTENDANCE EXPECTATIONS

TARDINESS

If a student is less than 5 minutes late to class without an excuse, this is a TARDY. If a student is more than 5 minutes late to class without an excuse, this is considered CUTTING CLASS. (Refer to the Student Handbook.)

- 1st - 3rd offense - warning/parent notification
- 4th offense - referral
- Subsequent offenses - referral

ATTENDANCE POLICY

*It is imperative that **ALL** students are actively engaged and present every day!*

Absences in High School are accrued per course. **Any absence in excess of five may cause the student to lose credit for a 90 day/year course.** Absences that are medical (doctor notes), bereavement, and/or Principal Approved are not included in the maximum absences. Greer High students must be present a minimum of 45 minutes to be counted present. (Refer to the Student Handbook.)

MAKE UP WORK

Major tests must be made up within one week of the original test date with an excused absence. Arrangements must be made with the teacher for a suitable time to make up Major tests. Projects will not be accepted more than one day late, at a maximum reduced grade of 80. Quizzes will not be made up, the major test grade from that topic or unit will substitute for the missed quiz grades.

GREER HIGH SCHOOL LATE WORK POLICY (MINOR GRADES)

At a minimum, students may receive up to 75% on minor assignments turned in 1 day late. At a minimum, students may receive up to 50% on minor assignments turned in 2 days late. This policy does not apply to students who are absent for instruction. When considering absences, teachers will assign a reasonable amount of time for students to make up assignments that do not exceed 5 days.

CLASSROOM EXPECTATIONS

BE RESPECTFUL.

1. Obey ALL school policies and rules laid out in the student handbook.
2. Allow others to learn. Talking is permitted only when deemed necessary by the teacher.
3. Remain in your seat until I dismiss you. The teacher dismisses the class, not the bell.
4. Respect the property and rights of other students and the teacher.
5. Follow all cell phone and Chromebook policies. Cell phones and other personal electronic devices are NOT allowed in the classroom.

BE RESPONSIBLE.

1. Come to class prepared with all materials and assignments.
2. NO ELECTRONICS or PHONES DURING TESTS and QUIZZES.
3. Take your seat when the bell rings, class starts with the ringing of the tardy bell.

BE RESOURCEFUL.

1. Exhibit a positive attitude. Be involved and participate.
2. Come to class with a willingness to learn (growth mindset).
3. If you need help, ask for it! We will be working together in pairs, in small groups and tutoring is available.

STUDENT CONSEQUENCES FOR BEHAVIOR ISSUES

1. Verbal warning and/or seat change.
2. Contact home.
3. Discipline referral to administration which may result in ISS or OSS.

HALL AND RESTROOM PASSES

Students learn more when they are in the classroom than in the hallways.

A hall pass must be used any time the student wishes to go to the restroom, locker, water fountain, or leave the class for any other personal reason. Students must always have a lanyard with a pass attached to be in the hallways during class times. Hall passes will be managed and monitored by the SmartPass system.

PERSONAL ELECTRONIC DEVICE POLICY

While Greenville County Schools had updated our policy last year and this is not significantly different, we want to make sure you are aware of the most notable updates in order to comply with the state, which include:

- All student cell phones and personal electronic devices must be stored in backpacks, lockers, or in a location directed by the school; this includes smartwatches, earbuds, and all other personal electronic devices and accessories.
- High school students may not use electronic devices outside of the classroom unless that use is for instructional/school-related activities as approved by the school, such as checking grades, emailing teachers, referencing their schedule, using the phone to pay for lunch, etc.

Details about the updated policy can be reviewed on the district's website. Please reach out with any questions by contacting the front office.