

Introduction to Engineer Design (IED) Syllabus

> Contact Information

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Class curriculum weblink - <https://my.pltw.org>

Class resource weblinks - Schoology - <http://lms.fcps.org> & <https://sites.google.com/site/lancerpltw/>

> Introduction

Introduction to Engineering Design, is the introductory course in Project Lead the Way Pre-Engineering Technology program. This honors course will help students develop skills with problem-solving, visualization and communications skills. The emphasis of this course is on the design process, utilizing STEM skills and learning three-dimensional solid modeling computer software.

➤ *Students can earn college credit by successfully completing this course.*

> Course Objectives

Students that complete the project-based curriculum will:

- Understand technology as a tool for problem solving
- Understand the design process, problem solving, and the application of technology in engineering.
- Use mathematical principles to find solutions to design situations
- Develop a teamwork environment

> Grading Policy

<u>Category</u>	<u>Weight</u>
Classwork	30%
Projects	25%
Tests	25%
Portfolio	10%
Homework	10%

Grades: Students and parents can view the course grades using Schoology.

Regularly monitor your progress online via our grading website. [Schoology - http://lms.fcps.org](http://lms.fcps.org)

Make-up Work: Students can make-up any classwork or assignments that have been missed by an excused absence. If a student misses a day, they have a day to make-up the work. If multiple days are missed, the student needs to see the teacher to arrange a time to turn in the missed work. Students should get any missed work from the teacher directly. Most of the assignments are on the class curriculum web-link: [//my.pltw.org](https://my.pltw.org), but always check with the teacher; some assignments might have been tweaked to meet the needs of the class.

Late Work: All work must be turned in by the assigned due date.

Late classwork is accepted, but will receive a “5%” reduction each school day it is late.

Major projects will receive a 10% reduction each school day it is late.



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Academic Dishonesty: Students may not give or receive unauthorized aid on any assignment. Students will be held to the expectations and actions included in the LHS Honor Code found on the LHS Website. Students found to violate the policy will receive a score of zero on the assignment.

Testing Expectations: During assessment, all materials, including off/silenced cell phones, should be secured in the front of the room.

> Tutoring [Extended Learning Opportunities]

I will be available after school on Tuesdays from 2:15pm to 4:00pm in room C106. Please check with me before showing up. If you can not make Tuesdays, please check with me to work out another day. Also, PREP will be available during the school day.

> Instructional Materials needed:

- o Students are required to have a 1- 1/2 " 3-ring view binder (*plastic cover sleeve*) with 5 dividers.
- o Students MUST have a pencil every class day.
- o Students will be given an Engineering Notebook and it is expected to be with them each day.
- o A storage device to backup class files.

Note: Damaged or lost textbooks/school-owned materials become the obligation of the student/parent. A replacement fee will be charged for damaged or lost items.

> **Cell phone policy:** All students should participate in the academic environment free of distraction. All students have access to a chromebook to use as an instructional tool. It is a school-wide expectation that students' cell phones are out of sight and out of reach during class time. Violations could lead to cell phones being stored in administrative office for the remainder of the day and other consequences.

Linganore is enforcing this policy:

To promote undivided focus on instruction



To practice responsible digital citizenship

To maintain academic honesty

To support school safety

Students and parents may text one another during class exchanges and lunch.

> Classroom Procedures

- o Come to class on time, prepared to design and participate.
- o Food and drinks are NOT allowed anywhere near the computers.
- o Cell phones out of sight, no texting,  ,  , etc..
- o Clean up your area and tools, but not until the last 5 minutes of class.

> Student Expectations

- o **ACADEMICS:**
Complete all assignments on time and with integrity | Assigned work completed | Be open to feedback and capitalize on opportunities to improve
- o **ACCOUNTABILITY:**
Bring required materials | Observe classroom safety guidelines | Use appropriate language at appropriate times | Be in your assigned seat when the bell rings
- o **ATTITUDE:**

Academics Accountability Attitude



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Focused and alert | Give your best effort | Honor commonalities and celebrate differences |
Support and encourage classmates

> Discipline Procedure

- o Warning/conference with student
- o Phone call to parent/guardian
- o Teacher detention
- o Office referral

Please sign the attached agreement form.



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**We have read the course syllabus and understand the goals and policies of the classroom.
We agree to abide by and support them throughout the school year.**

_____	_____	_____	_____
student name	period	student signature	date
_____	_____	_____	_____
parent/guardian name		parent/guardian signature	date

Please return this page signed