

Engineer Design and Development (EDD) Syllabus

> Contact Information

Mr. Lastova
 Email: mark.lastova@fcps.org
 Phone: 240-566-9812
 Class curriculum weblink - <https://my.pltw.org>
 Class resource weblinks - Schoology - <http://lms.fcps.org> & <https://sites.google.com/site/lancerpltw/>

> Introduction

In this course, you will be working with a team of students from your **EDD** class. Your team will identify, research, justify, propose and build a solution and test the solution for an engineer problem of your own team choosing. You will apply the principles you developed in your previous PLTW courses as well as those from other disciplines. You will be required to contact established professionals in your chosen field of study in order to conduct your research. A “journal” will become part of your portfolio. You will be responsible for delivering progress reports and making a professional final presentation before a review panel, this is your Final Exam. Students are also expected to work on the team project outside of class and school hours.

> Course Objectives

Engineer Design and Development is an activity-based course designed to provide an opportunity for research and development activities in one or more areas of communication, energy, and production. A student is able to creatively pursue new knowledge and solve technological/industrial problems.

1. To develop an awareness of the basic principles of Research & Development.
2. To develop a basic knowledge and competency in the areas of computer applications, presentation, applied research, problem solving, and research reporting.
3. Develop an awareness of the career opportunities in the various areas.
4. Understand the statement “*Don’t you hate it when*”

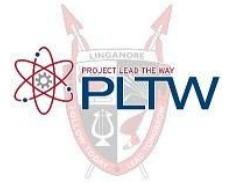
> Grading Policy

<u>Category</u>	<u>Weight</u>
<u>Term 3</u>	<u>Term 4</u>
Journal 20%	Journal 20%
Behavior & Attendance ... 10%	Behavior & Attendance ... 10%
Portfolio 10%	Portfolio 10%
Projects 30%	Projects 20%
Drawings/Building 20%	Construction 20%
Team participation 10%	<u>Final Presentation</u> (<i>After school the week of May 20th</i>) 20%

TAC/HAC: Students and parents can view the course grades using TAC/HAC. Regularly monitor your progress online via our grading website. (<http://apps.fcps.org/pivstatus.cfm>)

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

Academics Accountability Attitude



Engineer Design and Development (EDD) Syllabus

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: <https://my.pltw.org>, but always check with the teacher; some assignments might have been tweak 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 15% reduction each school day it is late.

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 Expectation: 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 Wednesdays from 2:15pm to 4:00pm in room C106. Please check with me before showing up. If you cannot make Wednesdays, 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 & a black or blue pen every class day.
- o Students MUST have an Engineering Notebook and it is expected to be with them each day.
- o A storage device to backup class files is highly recommended.

Note: Damaged or lost 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, participate and work with your team.
- o Food and drinks are NOT allowed anywhere near the computers!
- o Cell phones are allowed for school projects, but no texting friends or  ,  , etc..
- o Clean up your area and tools, but not until the last 5 minutes of class.

Academics Accountability Attitude



Engineer Design and Development (EDD) Syllabus

> 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:
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.
A copy of this form has been given to the student.***



Engineer Design and Development (EDD) Syllabus

**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 and refer to the “lancerpltw” website, *given above*, to review this syllabus.