



Digital Electronics (DE) Syllabus

> Contact Information

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> Introduction

The goal of this course is to introduce students to solving engineering design problems through digital circuit design and creation. Students will build fundamental skill sets and understandings that will transfer to the students designing circuits. The presentation of topics and concepts is meant to align with two historical threads: Advancements and improvements made to the circuit design process and Advancements and improvements in technology from the invention of the transistor, gates, integrated chips, programmable logic devices, and microcontrollers.

> Course Objectives

Students will employ engineering and scientific concepts in the solution of engineering design problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

> Grading Policy

The grading system for this class is weighted in the following categories given below.

Classwork	(30%)
Projects	(25%)
Tests	(25%)
Portfolio	(10%)
Homework	(10%)

By completing this course and meeting the following requirements, you are eligible to receive college credit. More information regarding this will be given throughout the year or by request.

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 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 weblink - <https://my.pltw.org>, but always check with the teacher, some assignments might have been modified 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%” point reduction each school day it is late. Major projects will receive a 15% point reduction each school day they are 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 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 Tuesdays from 2:15pm to 4:00pm in room C105. 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 MUST have a pencil every class day.
- o Students will need a composition notebook (used as an engineering notebook).

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.

> Classroom Procedures

- o Come to class on time, prepared to design and participate.
- o Food and drinks are NOT allowed any where 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:**
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



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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 and refer to the PLTW LMS website to review this syllabus.