



Sherwood High School

Maryland State Certified Project Lead the Way Engineering Program



PROJECT LEAD THE WAY
PLTW

Recommended Academy Pathway

Below is a sample planner that may be tailored to meet a student's individual needs. All students must take prescribed English, math, science, social studies, foreign language, and other courses required for a Maryland high school diploma. Students should also take 4 years of science courses if they want to pursue engineering as a major in college.

****Please note, if you take Intro to Engineering Design in 8th grade, you will sign up for Principles of Engineering as a freshman. Students are expected to pursue AP Science and AP Math courses during their junior and senior years as part of the PLTW Engineering program. All PLTW courses are honors courses.**

Grade 9	Grade 10	Grade 11	Grade 12
English	English	English	English
English 9/Honors	English 10/Honors	English 11/Honors/AP	English 12/Honors/AP
Mathematics	Mathematics	Mathematics	Mathematics
Algebra 1 or Geometry/Honors or Algebra 2/Honors	Geometry/Honors or Algebra 2/Honors or Pre-Calculus/Honors	Algebra 2/Honors or Pre-Calculus/Honors or AP Calculus AB/BC	Pre-Calculus/Honors or AP Calculus AB/BC or AP Statistics or Math Beyond AP Calculus
Science	Science	Science	Science
Honors Physics or Honors Biology	Honors Biology and/or Honors Chemistry	Honors/AP Chemistry or AP Biology or AP Physics 1	AP Physics C or AP Physics 1 or AP Chemistry or AP Biology
Social Studies	Social Studies	Social Studies	Social Studies
U.S. History/Honors/AP	National, State, & Local Government/Honors/AP	Modern World History/ Honors/AP	AP Social Studies
Foreign Language	Foreign Language	Foreign Language	College Coursework
Engineering Course	Engineering Course	Engineering Course	Engineering Course
Introduction to Engineering Design (IED)	Principles of Engineering (POE)	Digital Electronics (DE)	Engineering Design & Development (EDD)
Physical Education Or Music	Health and/or Music	Engineering Course Aerospace Engineering or Civil Engineering & Architecture Must be taken concurrently with DE	Engineering Course Aerospace Engineering or Civil Engineering & Architecture

If you feel it is difficult to fit in courses please email the engineering program coordinator, Brendan Lees, at Brendan_R_Lees@mcpsmd.org for assistance with your schedule.