



Sample Engineering Pathway

Project Lead the Way (PLTW)

A Maryland State Certified Program

This is a sample pathway schedule that may be tailored to meet a student’s individual needs. In addition to program coursework, all students must take prescribed English, math, science, social studies, and other courses required for a Maryland high school diploma.

Grade 9	Grade 10	Grade 11	Grade 12
English <i>English 9/Honors</i>	English <i>English 10/Honors</i>	English <i>English 11/Honors/AP</i>	English <i>English 12/Honors/AP</i>
Mathematics <i>Algebra 1, Geometry/Honors, or Algebra 2/Honors</i>	Mathematics <i>Geometry/Honors, Algebra 2/Honors, or Pre-calculus/Honors</i>	Mathematics <i>Algebra 2/ Honors, Pre-calculus/Honors, or AP Calculus AB/BC</i>	Mathematics <i>Pre-calculus/Honors, AP Calculus AB/BC, or AP Statistics/College Level Math Beyond AP Calculus</i>
Science <i>Matter and Energy/Honors or Honors Physics</i>	Science <i>Biology/Honors</i>	Science <i>Chemistry/Honors/AP or AP Physics</i>	Science <i>Physics/Honors/AP or AP Science course</i>
Social Studies <i>U.S. History/Honors/AP</i>	Social Studies <i>National, State, & Local Government/Honors/AP</i>	Social Studies <i>Modern World History/ Honors/AP</i>	Social Studies <i>AP Social Studies</i>
Foreign Language¹	Foreign Language¹	Foreign Language¹	College Coursework
PLTW Coursework <i>Introduction to Engineering Design (IED)</i>	PLTW Coursework <i>Principles of Engineering (POE)</i>	PLTW Coursework <i>Digital Electronics (DE)</i>	PLTW Coursework <i>Engineering Design and Development (EDD)</i>
Physical Education	Health and Elective Coursework²	PLTW Coursework <i>Aerospace Engineering (AE) or Civil Engineering and Architecture (CEA)</i>	Elective Coursework²

¹ **Foreign Language:** French, Italian, Spanish, German, etc. (choose from languages available at your school)

² **Elective Coursework:** Fine Arts/Music (choose as needed)