

● PLTW – Engineering & Applied Mathematics ●

Sample Plan of Study*

<p>Freshman Year</p> <ul style="list-style-type: none"> (1.0) English 9 (1.0) Math* (based on 8th grade math course) (1.0) Earth Science/Freshman Gen. Science (1.0) Intro to Social Studies/Current Social Issues (0.5) (Not a required course.) (1.0) PE Concepts (1.0) Fine Arts (0.5) Business/Computer Elective (0.5) Introduction to Industrial Technology (1.0) Engineering Essentials 	<p>Sophomore Year</p> <ul style="list-style-type: none"> (1.0) English 10 (2.0) Math* (2.0) Honors Biology & Chemistry I/Chemistry I Honors (1.0) World History (1.0) Engineering Design (1.0) Robotics
<p>Junior Year</p> <ul style="list-style-type: none"> (1.0) English 11 (2.0) Math* (including Statistics) (1.0) Chemistry II Honors (1.0) U.S. History (1.0) Principles of Engineering (1.0) Digital Electronics (1.0) Electives 	<p>Senior Year</p> <ul style="list-style-type: none"> (1.0) English 12 (2.0) AP Calculus I & II* (2.0) Honors Physics/AP Physics/AP Chemistry (0.5) American Government (0.5) Speech (1.0) Aerospace Engineering (1.0) Engineering Design & Development

***Math Recommendation:** Students in this pathway should complete Calculus I & II. Pre-requisite courses for Calculus I & II are: Algebra I, Geometry, Algebra II, Algebra III and/or College Algebra, Pre-Calculus. This may require students to take two math courses (2.0) in one school year.

Pathway Courses (Pathway completion requires students to complete two or more pathway courses, including technical or application courses. Information on this pathway can be found here: usd266/mca/programs)

Introductory Level	Technical Level	Application Level
<ul style="list-style-type: none"> · Engineering Essentials · Introduction to Industrial Arts 	<ul style="list-style-type: none"> · Engineering Design · Principles of Engineering · Robotics 	<ul style="list-style-type: none"> · Aerospace Engineering · Engineering Workplace Learning · Engineering Design & Development

Other Recommended Courses

Physics Statistics
Calculus I & II

Graduation Requirements

English – 4 units	Math – 3 units
Science – 3 units	Social Studies – 3 units
PE/Health – 1 unit	Fine Arts – 1 unit
Computer/Business – 1 unit	Speech – 0.5 unit
Electives – 11.5 units	



*This sample plan of study offers an example of what a student's individual plan of study in this pathway might look like. Please note that some courses may not be offered on an annual basis and participation in classes may be subject to space availability