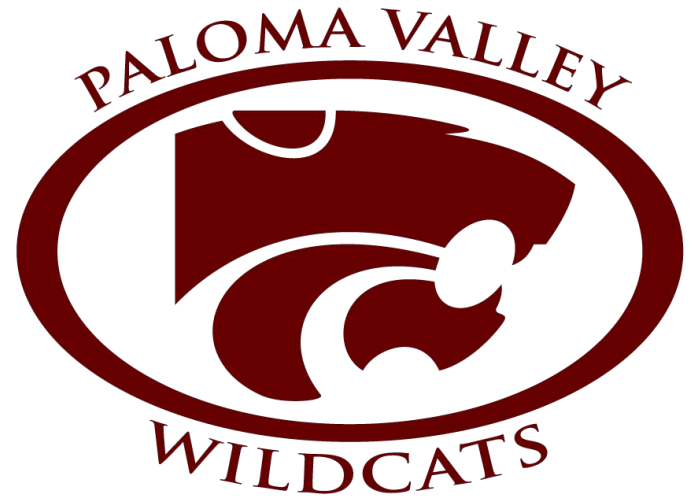




PERRIS UNION  
HIGH SCHOOL DISTRICT

# Biomedical Pathway





PROJECT LEAD THE WAY

**PLTW**

# Biomedical Science Pathway

A 3 or 4 year path for students interested in health and medical careers

|           | Core Science Class                        | Biomedical Pathway Class         |
|-----------|---|----------------------------------|
| Freshman  | Biology                                   | Principles of Biomedical Science |
| Sophomore | Chemistry                                 | Human Body Systems               |
| Junior    | Choose one: AP Biology<br>or AP Chemistry | Medical Interventions            |
| Senior    |   | Biomedical Innovations           |

# Course #1

## Principles of Biomedical Science

Prerequisite courses: None



- Explore concepts of biology and medicine to determine factors that led to the death of Anna Garcia.
- Students examine autopsy reports, analyze medical history, and explore treatments that might have prolonged Anna's life.

# Course #2

## Human Body Systems

Prerequisite courses: Algebra 1 or equivalent & PBS (with a C or better)



- Examine the interactions of human body systems to explore identity, power, movement, protection, and homeostasis.
  - Students build organs on a Maniken and use lab technology to monitor body functions such as reflex muscle movement, enzyme activity, and lung capacity.
-

# Course #3

## Medical Interventions

Prerequisite courses: Algebra 1 or equivalent & HBS (with a C or better)



- Follow a fictional family while investigating how to prevent, diagnose, and treat disease.
  - Students explore how to detect and fight infectious diseases, genetic testing and genetic diseases, cancer and cancer treatments, and the interventions used when the organs of the body fail.
-



# Course #4

## Biomedical Innovations

Prerequisite course: Medical Interventions (with a C or better)



- Capstone Course
  - Design innovative solutions for pressing health challenges of the 21st century.
  - Students work on an independent project of their choice with an off-campus mentor in a healthcare profession.
-

# For More Information

Click on the link

[PLTW Biomedical Information](#)

---