



# Olympic Heights Engineering Program

The academy program is affiliated with **PLTW (Project Lead the Way)**. PLTW is the leading provider of rigorous STEM education curricular programs used in elementary, middle and high school. (pltw.org)

## Program of Study:

- 9<sup>th</sup> Grade – **Introduction to Engineering Design (IED)**
- 10<sup>th</sup> grade – **Principles of Engineering (POE)**
- 11<sup>th</sup> Grade – **Civil Engineering & Architecture (CEA)**
- 12<sup>th</sup> Grade – **AP Computer Science Principles (AP CSP)**

## Additional Electives (Optional)

- Aerospace Engineering (NEW)**
- Cybersecurity Essentials**
- AICE Information Technology**

- Each of the courses has an **End of Course (EOC) exam** associated with it and students can earn **PLTW + AP recognition** (pltw.org/our programs/ap-pltw).
- Activity, Project and Problem-based Learning (**APB Approach**) – students learn engineering theory and apply it to hands-on projects. Entire curriculum is available to all students online.

## Industry Certifications

- Autodesk Inventor (9<sup>th</sup> grade) - **IED**
  - Autodesk Revit (11<sup>th</sup> grade) - **CEA**
  - Python (12<sup>th</sup> grade) - **AP CSP**
  - Security Fundamentals – **Cybersecurity Essentials**
  - Photoshop/Adobe Premiere – **AICE Information Technology**
- Affiliation with **Project Lead the Way** is advantageous to students at the time of college applications and for study at the college level. It is similar to AP courses in content. Some universities accept these courses as college credit. Refer to PLTW.org for list of universities.
  - **Clubs** – SECME, Coding Club, Dirty Mechanics (community club)
  - **Competitions** – Student Astronaut Challenge, Congressional App Challenge, AWWA Water Tower Competition, Zero Robotics Competition
  - **Academy Advisory Board** – offers guidance with scholarships, guest speakers and field trips (FPL, Citrix, LexisNexis, Habitat for Humanity)

## Engineering Instructors

- Erica Cheva** – [Erica.cheva@palmbeachschools.org](mailto:Erica.cheva@palmbeachschools.org) – **POE & Aerospace Engineering**
- Laura Del Calvo** – [laura.delcalvo@palmbeachschools.org](mailto:laura.delcalvo@palmbeachschools.org) – **IED & CEA**
- Angela Mitchell** – [angela.mitchell@palmbeachschools.org](mailto:angela.mitchell@palmbeachschools.org) – **AP CSP**