

Pre-Professional Programs

PRE-ENGINEERING



“We teach them hands-on through project-based learning, which is exactly what engineering is... teaching them how to think like engineers and solve problems like engineers.”

Instructor Testimonial —Charles Huber, Senior Aerospace Engineer

About the Program

The American Heritage Schools Pre-Engineering Program is a 4-year program beginning in 9th grade and culminating in 12th grade with an internship. In order to fulfill the requirements of the program, students must complete a total of 6.5 credits. All engineering courses follow Project Lead the Way (PLTW) guidelines. PLTW is the leading provider of rigorous and innovative science, technology, engineering, and mathematics (STEM) education curricular programs used in middle and high schools across the United States. Students must maintain a 3.5 cumulative GPA to remain in the program and must earn a B- or higher in each PLTW course in order to move on to the next course. All of the Pre-Professional Programs are taught daily by medical doctors, attorneys, judges, engineers, computer scientists, business leaders, and entrepreneurs.



Top Instructors

The program is taught daily by adjunct or full-time teachers who are practicing engineers in the fields of mechanical, aerospace, biomedical, and software engineering, among others. The program is taught at the college level using college level textbooks and curriculum.



Internships

The program culminates in a senior year internship where students experience the practice of engineering in real life. Seniors leave campus a few times per week to rotate through different engineering firms, such as biomedical engineering, aeronautical engineering, civil engineering, and software engineering. The connections our seniors make with practicing engineers and their companies are invaluable and often result in industry connections and future jobs.



Unique Curriculum

- Honors Introduction to Engineering Design
- Honors Principles of Engineering
- Honors Digital Electronics
- Honors Engineering Design and Development
- Honors Physics or AP Physics
- AP Calculus AB
- AP Statistics
- AP Computer Science Principles
- Architecture Design I
- Architecture Design II
- Computer Science Essentials

All Taught Utilizing College Level Textbooks



Competitions & Community Service

- First Robotics Competition
- FIRST Tech Challenge
- Lighthouse of Broward Engineering projects which benefits the visually impaired in South Florida



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