

Lafayette High School



**PRE-ENGINEERING
PROGRAM**

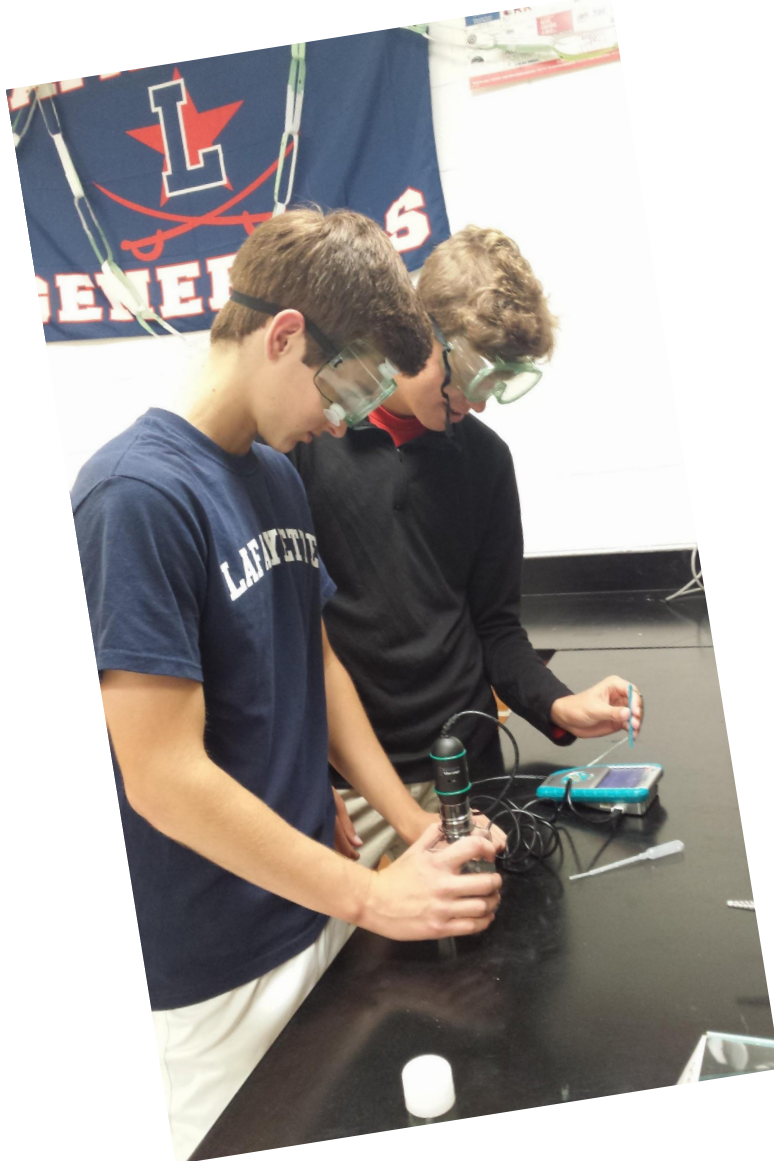
Welcome and Thank You for Coming!

Pre-Engineering Program Mission

To equip students with the skills and information necessary for success in highly competitive colleges and their programs, such as engineering, architecture, science and pre-medicine.



We Aim to Provide.....



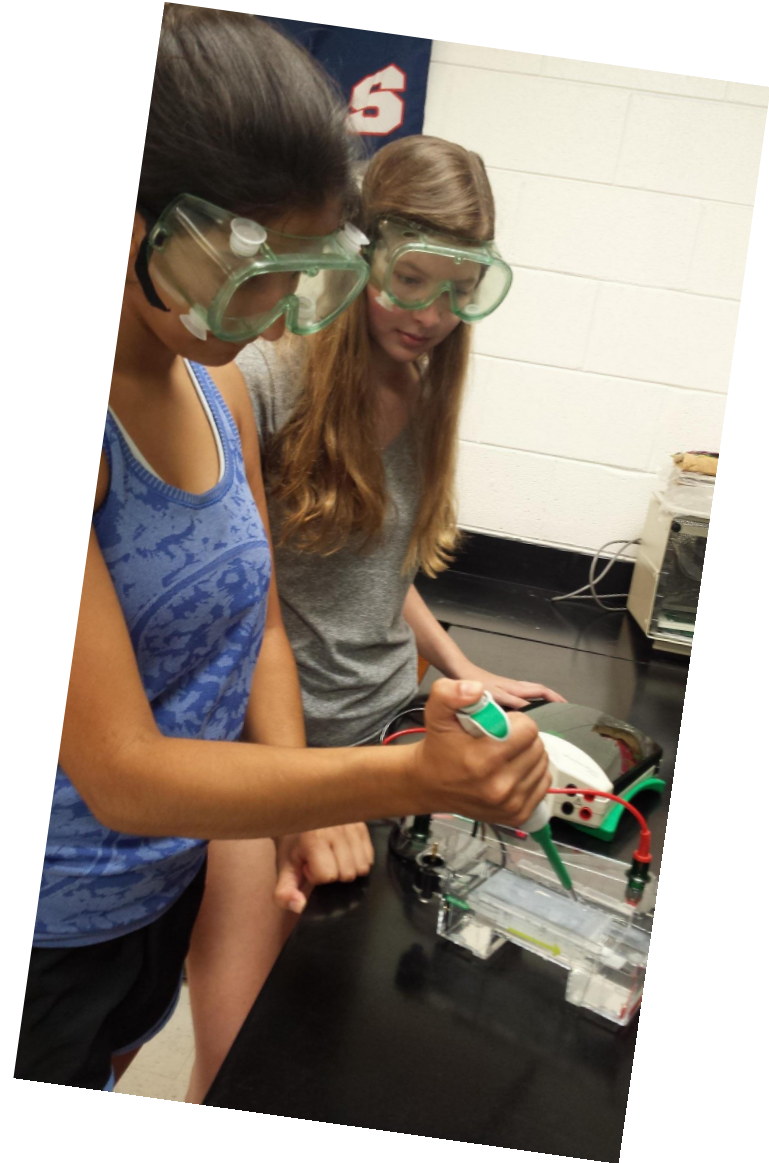
Courses that are mathematically rigorous and technically challenging

Courses where all fields are covered, using real world applications

Courses in which realistic solutions are sought for existing problems

Interesting Projects are an Important Part of our Program

- Robotics
- PCR and Electrophoresis
- Electricity
- Revit/ Inventor
- Rockets
- Optics
- Hoverboards
- Industrial Design



Eligibility

Students who are applying should:

Have earned an A or B average in all Math and Science classes

Have a strong work ethic and inquisitive mind

Have an interest in architecture, engineering or medicine as a career path

Be currently taking at least Advanced Algebra I at their Middle School



Your Freshman Year (A/B Block Scheduling)

Entering In Advanced Geometry

Pre-Eng. Adv. Intro to Physics/Earth Space

Pre-Eng. Adv. Geometry

Advanced English 9

Advanced Government

World Language

Elective

Elective

Elective

Entering in Advanced Algebra II

Pre-Eng. Adv. Intro to Physics/Earth Space

Pre-Eng. Adv. Biology

Pre-Eng. Adv. Algebra II

Advanced English 9

Advanced Government

World Language

Elective

Elective

Students are required to take math and science classes each year, including one AP Math and one AP Science before graduation

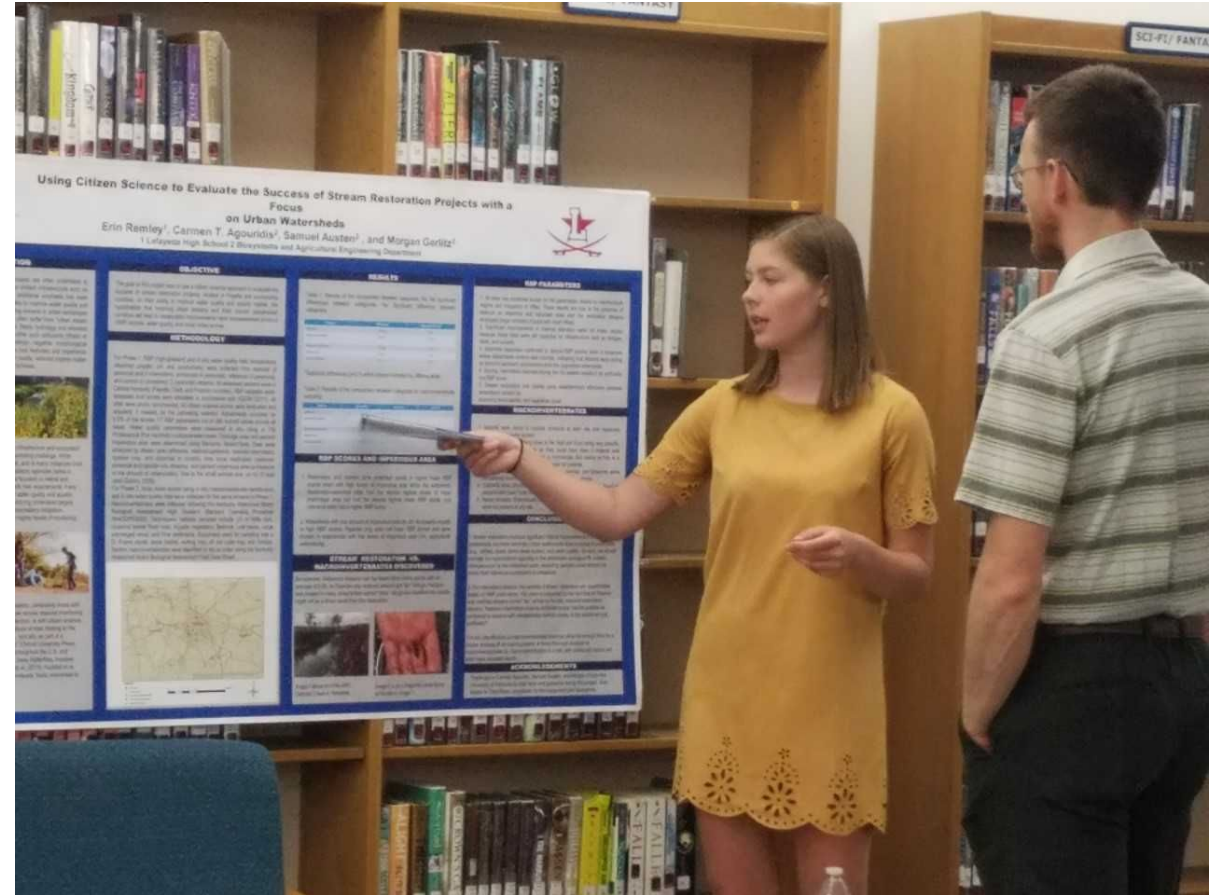
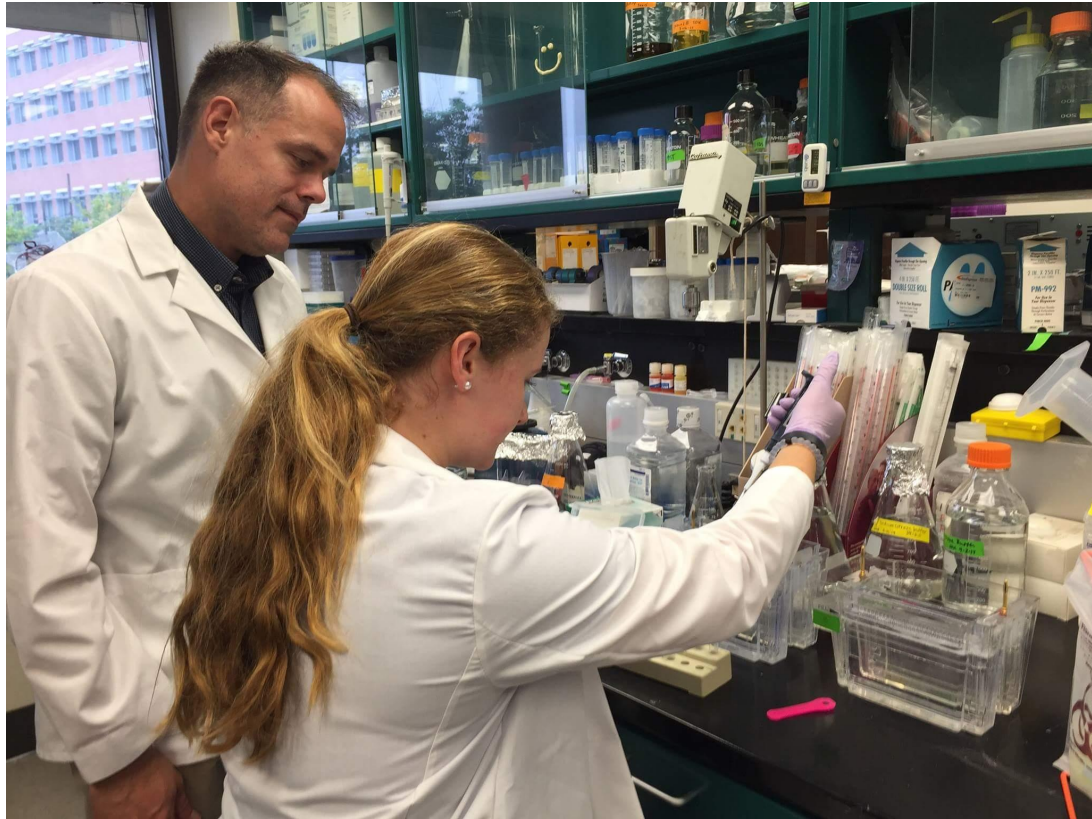
Mathematics Courses

- Pre-Engineering Advanced Geometry
- Pre-Engineering Advanced Algebra 2
- Pre-Engineering PreCalculus
- Advanced Calculus
- AP Calculus AB and BC
- AP Statistics
- AP Computer Science

Science Courses

- Pre-Engineering Advanced Intro to Physics/Earth Space
- Pre-Engineering Advanced Biology
- Pre-Engineering Chemistry
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP or Advanced Physics
- Many NON AP-Elective Courses

University of Kentucky Research (senior elective)



Computer Math and Technology Courses Available (Electives)

- Computer Programming
- AP Computer Science
- Architecture and Civil Engineering
- Introduction to Architecture
- Intro to 3D Printing
- Engineering 1
- Engineering 2
- Robotics Engineering
- Engineering / Architecture Internship



Our Students are.....

Diverse



Musicians

School Leaders



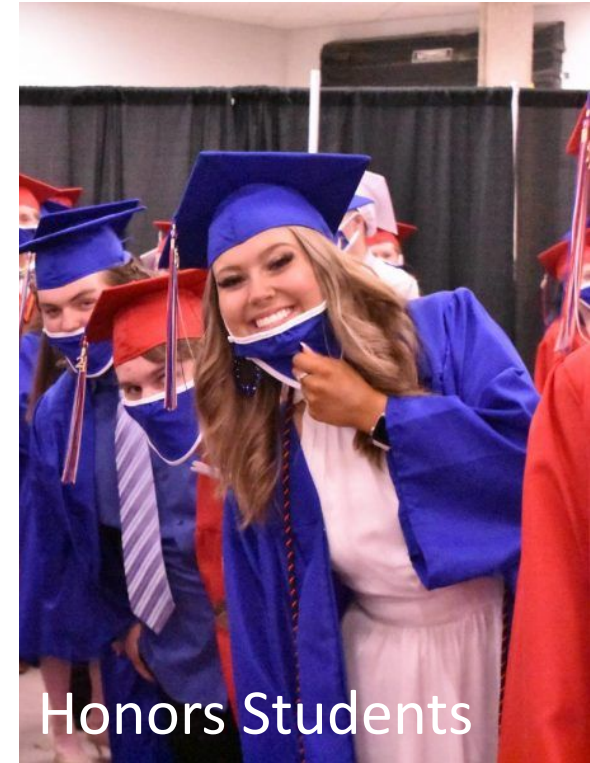
Artists

Well Rounded



Athletes

Talented



Honors Students

.....GENERALS

How To Apply to the Pre-Engineering Program

- To apply for the Lafayette Pre-Engineering Program beginning 2023-2024 you must:
- Complete the online application on the FCPS website between **January 7th and January 22nd**.
- Complete and submit the student questionnaire ([click here for student questionnaire](#)) by **January 29th**. You will also be asked to provide the names of a science and math teacher from your middle school. These teachers will then be emailed, by the Pre-Engineering directors and asked to complete a recommendation survey.
- Have your parents obtain a copy of your middle school transcript for the 6th, 7th and first grading period of the 8th grade from your middle school registrar or counselor. If you are currently enrolled in a Fayette County Public Schools middle school, this will be provided automatically. Private school transcripts must be mailed in and postmarked by **February 20, 2023**.
- Students will be given the IOWA math and science assessment through their middle school. Private school and make up exams will be given on **Saturday February 18th, 2023** at PL Dunbar High School

How Will Accepted Students Be Determined?

The following will be used to determine acceptance into the Pre-Engineering Program. All applicants meeting a predetermined overall score will be offered a spot in the program. This number will be determined by the number of available spots.

- IOWA Math Score
- IOWA Science Score
- MOST RECENT MAP Math Score
- Cumulative GPA (6th, 7th and first grading period of the 8th grade)
- Math Courses GPA (6th, 7th and first grading period of the 8th grade)
- Science Courses GPA (6th, 7th and first grading period of the 8th grade)
- Science Teacher Recommendation
- Math Teacher Recommendation
- Completion of the Student Questionnaire

HARVARD
UNIVERSITY



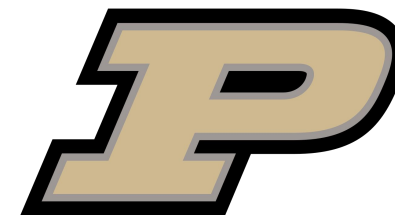
TRANSYLVANIA
UNIVERSITY



UF | UNIVERSITY of
FLORIDA



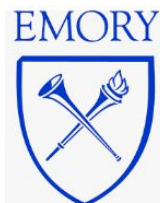
MIT



N
NAVY



UK



CLEMSON
UNIVERSITY



Frequently Asked Questions

Transportation?

FCPS does not provide special transportation for out of district students to the Pre-Engineering Program (SCAPA next door).

Electives?

Beyond the stated math and science required courses Pre-Engineering students can take any elective they choose while at Lafayette.

Average ACT Score/ Money Awarded?

Last year alone- \$12,931,074.00 in scholarships

Average ACT- 31

Frequently Asked Questions

Why Lafayette?

We believe that our students, teachers and school are the absolute best in the district!!! We will provide an excellent learning environment, an academically challenging program and time to be a high school student to explore extracurricular activities and clubs.



Thank You for Your Interest in Our Program.

Good Luck through the Application Process!!!