

<Preparation

The rigor and intensity of the pre-engineering classes ensures that these students will be successful at the college level. The challenging and supportive environment, created by the teachers for those students with the interest, the aptitude, and a positive attitude, prepares them well.

MATHEMATICS

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

SCIENCE

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

TECHNOLOGY

Drafting/CAD
Engineering Design
Techsystems
Graphic Communications
Integration of Graphing Calculators, Vernier LabQuests and probes, autoCAD, EXCEL

Extracurricular Opportunities –
TSA (Technology Student Association)

Contact Info>

Lafayette Pre-Engineering Program

Diane Remley, Science Co-Director (A-L)
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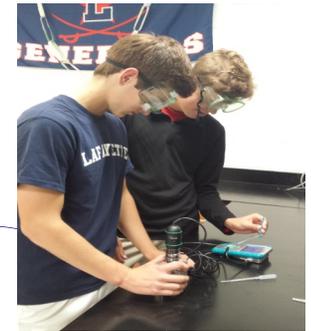
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Lexington, KY 40503

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Lafayette Pre-Engineering Program

“Preparing the Professionals of the Future”

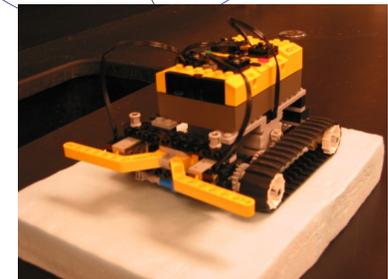
Science>



<Mathematics



Technology>



The 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-medical.

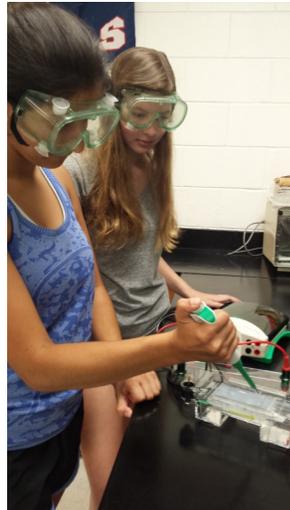


- Courses are mathematically rigorous and technically challenging
- Mathematics, science, and technology are applied in real world situations
- Realistic solutions are sought for currently existing problems
- Provide opportunities for students to be well-rounded athletically, musically and artistically

<Eligibility

Incoming freshmen who meet the following qualifications are encouraged to apply.

- An A or B average in all math and science courses
- A strong work ethic
- An inquisitive mind
- An interest in engineering, architecture, science, or medicine as a career path
- A desire to work with other students with similar interests and aptitudes



The Difference>

Though the basic concepts covered in the curriculum of the pre-engineering classes are the same as for other advanced math and science classes, there are many added features to our program.

- Basic concepts are covered in greater depth
- Additional topics are also introduced
- Help is offered on a regular basis by all the teachers to ensure student success
- Teachers place importance on learning in a laboratory environment



<The Projects

Interesting projects are a key element of the program.

- Robotics
- Circuitry
- Edible Cars
- Optics
- PCR and electrophoresis
- University Research

