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)

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**Contact Info**

Lafayette Pre-Engineering Program

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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