

The Requirements

- ◆ A completed application
- ◆ A recommendation from a math and a science teacher
- ◆ Maintain an 80 or above in math, science and engineering courses
- ◆ Maintain a 75 or above cumulative average in all course work attempted
- ◆ Possess a deep desire to design new things and determine how existing things work

The Purpose

- ◆ Educate students as to the true world of engineering by dispelling prominent misconceptions and exposing them to the real facets of the engineering discipline
- ◆ Motivate and enable students to achieve at a higher level in the area of math and science
- ◆ Prepare students for the rigors of a college engineering curriculum
- ◆ Assure success in a technical or engineering career

Sample Course Selection

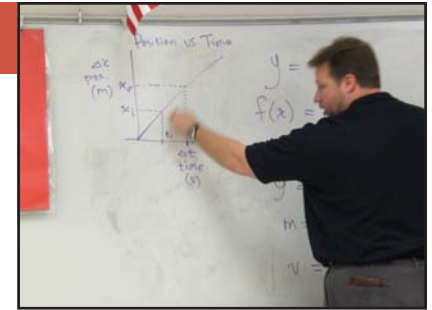
Freshman Year

English 9*
World History*
Algebra I or Geometry*
Biology*
Digital Electronics & Robotics for Engineers
Computer Applications for Engineers
LIFE PE

Sophomore Year

English 10*
US History to 1877*
Geometry* or
Algebra II with Trigonometry*
Chemistry*
Introduction to Engineering Design
Programming for Engineers (C++)
Health and 1/2 Credit of Choice
Fine Arts

*These courses can be honors level.



Junior Year

English 11*
US History 11*
Algebra II/Trig* or Engineering Precalculus
Physics
AP Computer Science AB (JAVA)
Fundamentals of Engineering I
Two Electives (may include Chemistry II or AP Chemistry)

Senior Year

English 12*
Government/Economics or AP Government
(1 credit) + Economics (1/2credit)
Calculus, AP Calculus or
Engineering Precalculus
AP Physics C Mechanics and
AP Physics C Electricity and Magnetism
Fundamentals of Engineering II (1st Sem)
Engineering Research and Design (2nd Sem)
Half credit of choice

"I felt that it really prepares you for an engineering degree in college and even beyond that."—Senior Eric Hughes