



MATH REQUIREMENTS

- 4 years of Math with an 80 or higher in each course.
- Pass 3 Math Regents Exams in:
 - Algebra 1
 - Geometry
 - Algebra 2

SCIENCE REQUIREMENTS

- 4 years of Science with an 80 or higher in each course.
- Pass 2 Science Regents Exams in:
 - Living Environment
 - Earth Science
 - Physics
 - Chemistry

TECHNOLOGY REQUIREMENTS

- Complete the Technology course with a grade of 80 or higher.
- Complete two of the following:
 - Photography Course
 - Robotics Course
 - A Web-Page demonstrating basic HTML/CSS proficiency
 - Support technology for school functions or a school organization for 1 year
 - Support Theatre Tech for 1 major production
 - Other (must be pre-approved)

ENGINEERING REQUIREMENTS

1. Investigate 2 different fields of engineering through site visit, office visit, etc. with actual engineers in those fields
 - a. Compare and contrast in writing how engineers in different fields carry out engineering processes
- Define the word *engineering* and describe the general design process engineers use in terms of a product used in everyday life.
2. Complete 1 pre-approved engineering project – either small individual projects and/or larger team projects.

ADVANCED COURSEWORK

- Take an earn a grade of 80 in two of the following:
 - Elements of Chemistry
 - Earth History
 - Heredity and Society
 - Conservation and Pollution Biology
 - AP Calculus
 - Intro to Probability & Statistics
 - Any Science, Math, or Technology course with an AP Exam and a 3 or higher on that Exam.
 - Take one SAT-II in either Math or Science (either Level 1 or 2)

MAJOR EVENTS

1. Visit a STEM related fair/exhibit/conference. Report information to advisor.
2. Work with a professional in a STEM field of interest as part of the Alumni Mentoring Program
3. Complete a major (pre-approved) STEM project OR internship in any STEM area:
 - Science
 - Technology (including software)
 - Engineering
 - Math

LEADERSHIP

- Demonstrate leadership in a STEM-related area; must be pre-approved. Examples include, but are not limited to the following:
 - Lead a STEM-related club
 - Design the technology for theatre event
 - Recruit other students
 - Mentor other students in STEM areas
 - Plan and lead a trip to a museum or other site of STEM-related interest

Note: Activities marked as needing pre-approval must be cleared by students through the STEM Coordinator (who may consult other faculty).