



STEM Pathways Program (SP²)

The STEM Pathways Program, SP², promotes and supports student interest in the fields of engineering. At the core of SP² is involvement in computer science, robotics, aerospace, advanced science and mathematics, and collaborative scientific research. Beyond the core, students may explore digital art, CAD, or higher level mathematics or science courses.

This program begins in sophomore year. Students successfully participating in SP² will receive a letter of support to accompany college applications. Completion of this rigorous program will be recognized by a certificate of distinction.

The Program:

CORE (satisfy all)

- ___ AP Computer Science Principles
(or equivalent)
- ___ 4 Semesters of Robotics/Rocketry (any combo)
- ___ 1 AP Science: AP Chemistry, AP Physics 1,
AP Biology, AP Environmental Science
- ___ 1 Year e-NABLE Service
(<http://enablingthefuture.org/>)
- ___ Off-campus Summer STEM Experience
- ___ 4 Years Mathematics
- ___ Attend 2 lectures presented by the JPL/Caltech
von Karman Lecture Series
(written assignment required)
(jpl.nasa.gov/events/lectures.php)

EMPHASIS (complete 2)

- ___ Autodesk Inventor CAD or 3D Printing Project
- ___ 2nd AP Science
- ___ AP Calculus AB (can also count for core)
- ___ 2-D Design or Photography (can also count for
VPA)
- ___ 1 Additional Course in:
Graphic Design, Programming, Astronomy, or
other approved area (may be off-campus)

Requirements:

- Interview with the STEM Coordinator for admission during Sophomore year
- Satisfy Core and Emphasis requirements
- Maintain a digital portfolio of SP² work and submit to the STEM Coordinator for periodic review
- Presentation of summer experience