

Northview Engineering

OVERVIEW:

Northview's engineering pathway is a 3 year pathway with a **project-based** curriculum that takes a hands-on approach to all things engineering.

YEAR 1: Foundations of Engineering and Technology

Projects: Puzzle Cube, CO2 Car, Can Crusher

In the first year of engineering, you can expect to learn basic concepts, such as CAD and another of your choosing, and apply them directly in projects such as building an automated can crusher!

YEAR 2: Engineering Concepts

Projects: Hovercraft, Automated Drawbridge

The second year of engineering further develops on the concepts learned in the previous year and combines it with science (such as physics) in harder projects.

YEAR 3: Engineering Applications

Projects: Solar Car, Steam Powered Catapult

The last and final year of the engineering pathway heavily combines knowledge of physics along with the other technical skills. Also comes with an EOPA at the end of the second semester.



RESEARCH AND DESIGN ENGINEERING

The engineering department has also recently added a 4th optional year of engineering, where the whole year is essentially spent on class-chosen projects, as well as NASA HUNCH Research. This class is a lot more free than the other classes, as everything, such as due dates, is student managed and student planned.