



About Us

The DB Engineering honors pathway is a strand of the Brahma Tech Academy and a curriculum partner of the nationally renowned Project Lead the Way (PLTW) educational program.

This pathway provides 9th-12th grade students a high rigor, hands-on curriculum that meets standards set by educational and industry leaders. The curriculum will take students through a variety of engineering disciplines with the hopes that they may pursue it as a future career.

All classes in the DB Engineering honors pathway count towards fulfilling the Brahma Tech Diploma requirements.



For more information,
contact your GLC,
a DB Engineering teacher
or the Brahma Tech Academy
Coordinator.



DB/Engineering

honors.pltw.brahma.tech/11111011100

Watch Us in Action!

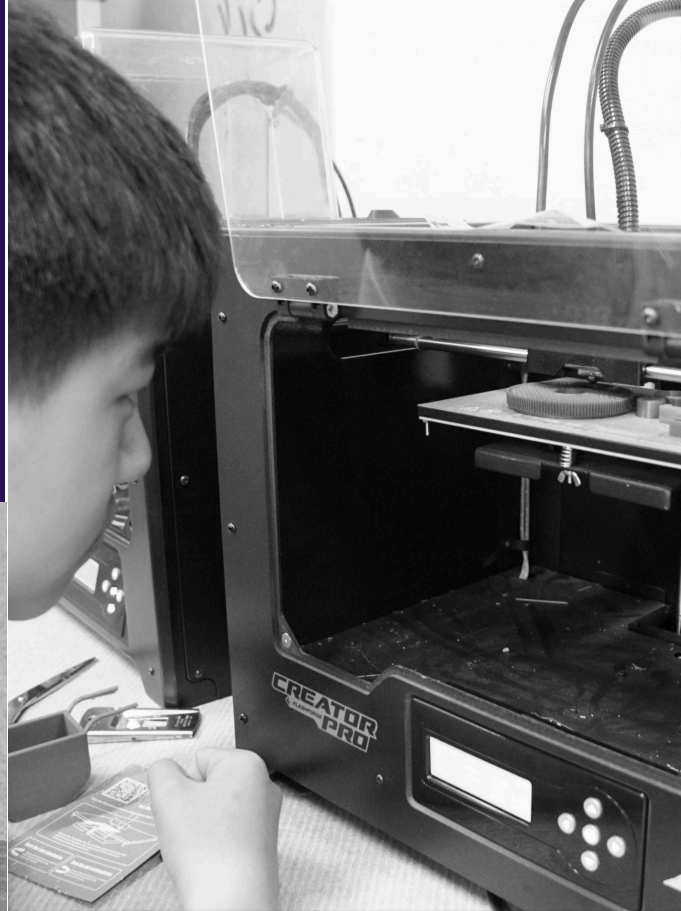
Scan this QR Code to get a glimpse of what we do in our program:



Award Winning

As a reflection of our program and of the students in it, here's a few of our recent awards, distinctions and recognitions:

5 Time PLTW Distinguished High School,
NASA Techrise Student Challenge Winner
SourceAmerica Design Challenge National
Winner, MAKE:ABLE Assistive Technology
Winner, JPL Invention Challenge Winner,
Chevron Design Challenge Regional Winner



Why Complete the Pathway?

- 1st Year class fulfills the UC "f" and high school graduation Visual Performing Arts (VPA) requirement
- 2nd Year, 3rd Year, 4th Year classes are UC Honors classes
- Brahma Tech Diploma credit
- Develop an impressive portfolio for internship and career opportunities
- Get practical experience working with shop tools, maker equipment
- Learn industry standard software e.g. NI Multisim, Autodesk Fusion360, Python, Arduino C++ etc.
- College Admission Preference

Suggested Sequence of Courses

9th - Intro to Engineering Design (IED)

Fulfills University of California VPA "f" Requirement - Students manage and develop solutions using the engineering design process, apply math and statistics to hands-on projects, learn visual art concepts, utilize industry standard 3D modeling software, and printing 3D objects.

10th - Honors Principles of Engineering (POE)

Through hands-on projects students explore a broad range of engineering fields including statics, materials, electronics, fluids, power, thermodynamics, and robotics.

11th - Honors Digital Electronics (DE)

This course provides a foundation for students who are interested in electrical and computer engineering as they study circuit logic, program microcontrollers, and utilize industry standard circuit design software.

12th - Honors Engineering Design and Development (EDD)

In this capstone class, students take the knowledge and skills they acquired throughout the previous three classes to research, design, and build a prototype that solves a problem experienced by the elderly or persons with disabilities.