

## What else is there besides classes?

Try out the **Robotics Club**. Take your engineering ideas beyond the classroom, build on them in the group, and then share them with the world. Robotics teams participate in scheduled VEX® tournaments throughout the school year.

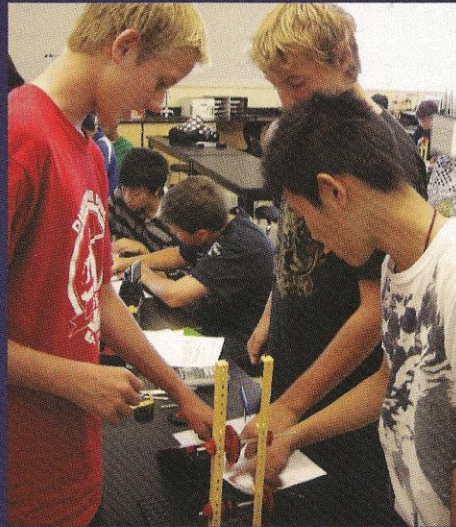
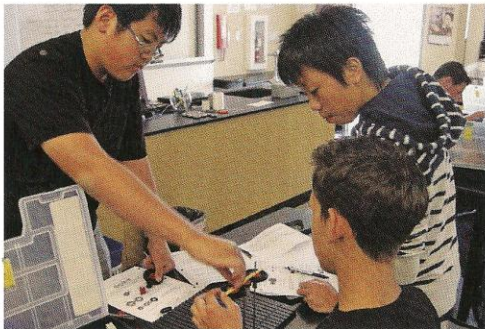
## What do my parents need to know?

That you'll be using your brain power in a safe, well-supported program. The DHS Engineering & Design Academy is made possible by Project Lead The Way (PLTW), the largest nonprofit dedicated to bringing innovative and rigorous STEM (science, technology, engineering and mathematics) education programs to U.S. middle schools and high schools.

Go to [www.pltw.org](http://www.pltw.org) to find out why connecting with PTLW is a good idea.

In addition, the academy has relationships with the Engineering departments at CalState San Jose, San Diego and East Bay.

The academy curriculum is standards-based and student-centered. It is aligned with California State Standards for each subject area, the "a-g" course-work requirements for admission to the University of California and California State University systems and national STEM standards.



## So, how do I make this happen?

If you're interested in taking courses in the DHS Engineering & Design Academy, see your school counselor or call **925-833-3300**, extension **7050**.

The DHS Engineering & Design Academy has outstanding partners. They participate on our Engineering Advisory Council and provide guest speakers, site visits and tours as well as equipment and supplies.

### Our sponsors include:

Chabot College  
Chevron  
Contra Costa Economic Partnership  
Dublin Partners In Education  
Las Positas College  
Lawrence Livermore National Laboratory  
Schoenthal Family Foundation  
Simpson Strong-Tie  
Tri-Valley Education Collaborative

# Engineering. Get into it.

Hands-on learning for  
solving real-world problems.



Dublin High School  
Engineering & Design Academy

# Why Engineering?

Because there are so many possibilities.

Engineering can solve problems in every

area of life, and the world needs new

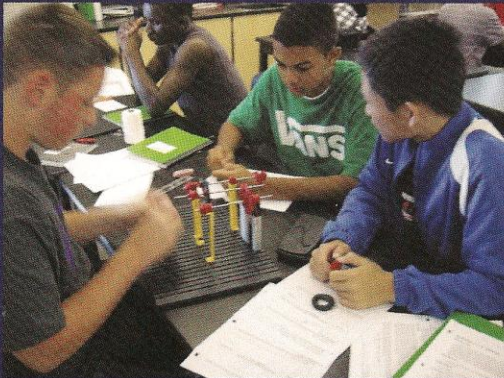
solutions every day. Learn the basics

and try out the technology, and you'll

be able to confidently choose from a

range of studies and colleges and a

wide variety of career opportunities.



## Why now?

Because you'll like the challenge. The academy has the tools and support that will open doors for your curiosity and ambition. True, you'll learn some things, but you'll also get to use technology and do projects that are interesting. When it's time to think about life beyond high school, you'll have a better idea about what you want to do.

## Why should I care?

Because you probably like or have thought about:

- Using math, science or art to solve problems or create new things.
- Designing video games, cars, electronics, machines, equipment – you name it.
- Designing, planning and supervising the construction of buildings, highways, bridges and transit or energy systems.



## OK. What classes can I take?

### Introduction to Engineering Design

This course will help you develop problem-solving skills, emphasizing visualization, communication and design. You'll use a computer and 3-D solid modeling software to produce, analyze and evaluate projects and solutions. After studying form and function, you'll use state-of-the-art technology to translate conceptual designs into reproducible products.

### Principles of Engineering

This course will give you an overview of engineering and engineering technology to help you identify career possibilities. You'll combine theory with hands-on experience so you can learn about the social and political consequences of technological change.

### Digital Electronics

Cell phones, MP3 players, laptops, digital cameras, high-def TVs – they're all based on digital electronics. This class will get you started on the fundamentals, focusing on combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation.