



V.E.S.T.E.D. High School Summer Academy

Valdrey Engineering, Science, Technology, Enrichment, and Development (V.E.S.T.E.D.)

Summer Session: July 2 -27

Monday– Friday 10:00AM - 12:30PM

The V.E.S.T.E.D. High School Summer Academy is an engineering and technology summer program for high school students from the Los Angeles area. The V.E.S.T.E.D. Academy strives to develop math and science skills as well as personal and interpersonal skills for students entering college and beyond. The Academy provides an early entrance opportunity by allowing high school students to enroll in select courses offered by the College of Engineering, Computer Science, and Technology (ECST) and earn (2) college credits.

4 Week Engineering Course Offered: July 2nd—July 27th

- ME 154: Math Robotics Integration, (2 unit college course)\

Other Program Activities & Highlights

- Friday Workshops on How to Apply for College, Financial Aid using FAFSA (Free Application For Federal Student Aid), Introduction to CSULA Library Services
- Mandatory Student/Parent Orientation Session June 19th from 5:00pm- 7:00pm

Field Trips

- California Science Center and IMAX Theater
- The Jet Propulsion Laboratory

Eligibility Requirements and Program Details

- Open to students in entering grades 9-12 in Fall 2012
- An overall 3.0 GPA, Algebra 1 and Geometry must be completed prior to Fall 2012
- A grade of A or B is required to obtain college credit, otherwise a Certificate of Completion will be issued
- Students must provide their own transportation to class and field trips.
- All students must attend a mandatory Orientation with a parent or guardian on June 19th

Fees

- \$800.00* includes tuition and all course materials and fees.

*scholarships may become available, all students who apply will be considered for scholarship and will be notified prior to orientation.



V.E.S.T.E.D. High School Summer Academy

Valdrey Engineering, Science, Technology, Enrichment,
and Development (V.E.S.T.E.D.) High School Academy Summer 2012

Summer Session: July 2 -27

Monday– Friday 10:00AM - 12:30PM

Program Course: Engineering 154: Math Robotics Integration

Mode of Delivery: Classroom instruction and laboratory. Classroom discussion and course assignments are discussed at the beginning of each class period.

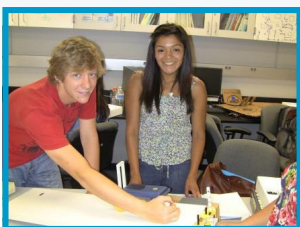
Course Overview:

The objective of this course is to strengthen the mathematics skills of high school students through applied learning instruction. This course connects mathematic concepts to real world applications using artificial intelligence infused with robotics technology. This course presents a unique opportunity to learn math in a real-world/contextualized learning environment. Not only will students learn about algebraic concepts and principles in the traditional sense but also how to apply algebra in order to solve real world problems by developing robotic programming solutions. This course also integrates the following California State Standards:

Course Goals:

- To use and apply technologies to access, organize, and evaluate information.
- To apply design philosophy in the creation of a mechanism that converts one form of energy into another.
- To foster engineering creativity, problem-solving skills, logical thinking and processing.
- To demonstrate appropriate use of resources while practicing safety and maintenance skills.
- To foster team building & working together to solve problem and design projects.
- To apply the concepts and skills used in measuring, proportioning, free-hand sketching, and PowerPoint Animation to visualize structure, form, and design.

Contact Lily Nguyen, Program Director
College of Engineering, Computer Science, and Technology
California State University, Los Angeles
(323) 343-4506 or lnguyen2@cslanet.calstatela.edu



Making new friends



Working Together



Building Math Skills



CA Science Center