



VEX Robotics

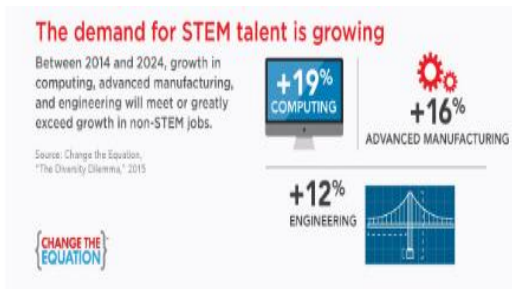
AP + PLTW = Student Recognition

If a student completes three courses in a pathway — one AP course; one PLTW course; and a third course, either AP or PLTW — and earn a score of 3 or higher on the AP Exam(s) and a score of Proficient or higher on the PLTW End of Course (EoC) assessment(s), he/she has earned the AP + PLTW student recognition for that pathway.

College Articulation

Students can earn Irvine Valley College credit by taking UNITE engineering classes. Read the details of articulation agreement and fill out the IVC CTE credit request form online.

Why STEM? Why Now?



Who We Are

About Us

UNI_Technology&Engineering (UNITE) is a schoolwide STEM program. We offer PLTW Engineering courses and STEM projects for students to work on beyond the school day.

Contact Us

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UNI_TECHNOLOGY &ENGINEERING (UNITE)

See what happens next.



Intro to Engineering Design

What is UNITE?

UNITE stands for UNI_Technology &Engineering -- a schoolwide STEM program. We offer PLTW Engineering classes and STEM projects for students to work on beyond the school day. **Girls are welcome** -- no experience or background required. By working in a STEM project-based learning environment, students develop and practice 21st-century skills needed in a world that values collaboration, initiative, perseverance, flexibility, empathy, curiosity, and creativity. We have a laser-like focus on providing students with authentic, real-world learning experiences and setting up the right conditions for them to **develop skills** and **practice habits** that enable college/career success many years down the road. We take an iterative approach to projects whereby students learn by **DOING**, **MAKING**, and **CREATING**. We have a relentless pursuit of learning new things and a passion for work-based learning.

PLTW Engineering Courses

Intro to Engineering Design

Principles of Engineering

Future addition: Specialization Course (e.g. Digital Electronics, Computer Integrated Manufacturing)

Future addition: Engineering Design & Development

“UNITE is a high tech hub where all things seem possible for our students... It is fertile ground of relevant learning.”
 -- UNITE parent

UNITE STEM Projects

Irvine CubeSat

Hydrogen Horizon Automotive Challenge (H2AC)

OC Maker Challenge

C-STEM Linkbots

UCI Rescue Robotics

VEX Robotics

World Education Robot

GAMA Build-A-Plane Aviation Design



World Educational Robot

UNITE Program Objectives

- * Increase female enrollment and participation to be on par with boys
- * Prepare students for college entry as engineering majors
- * Prepare students for technical work in high demand, high wage entry-level STEM jobs right out of high school -- educate for employability
- * Unlock student potential and build agency in the areas of technical ability, innovation, communication and entrepreneurship
- * Form connections and a network with education and industry partners -- strengthen these relationships
- * Engage with the community through STEM-related events
- * Connect students to industry and business/industry professionals through work-based learning, internship, apprenticeship, and mentorship -- we champion the dignity of work in all its forms
- * Align STEM offerings to current and future labor market trends
- * Participate in STEM project-based learning in an authentic, real-world context