

Related Occupations

Mechanical Engineer

Computer Engineer

Civil Engineer

Electrical Engineer

Materials Engineer

Biosystems

Engineer

Aerospace Engineer

Structural Engineer

Architectural Engineer

Acoustics Engineer



Engineering Career Path

Career Path Advisor:
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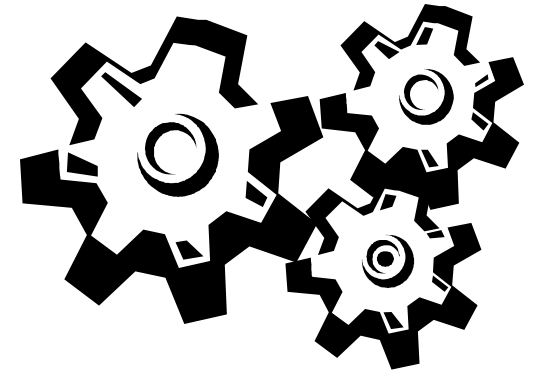
Valencia High School

27801 Dickason Drive
Valencia, California 91355

Phone: 661-294-1188

California Industry Sector:
Engineering and Design

Valencia High School
**Engineering
Career Path**



California Pathway:
Engineering Technology

Engineering Career Path

PHYSICS A/B

Many scientists and engineers consider physics to be the most basic of all sciences. It includes the study of motion, forces, energy, heat, waves, light, electricity, and magnetism. Physics focuses on the development of models deeply rooted in scientific inquiry, in which mathematics is used to describe and predict natural phenomena and to express principles and theories.



Required Classes:

- Physics A/B (minimum)
- Calculus (minimum)
- Drafting 1B – Mechanical Drafting
- Career Exploration Project (must be in Industry Sector)

Plus two or more additional classes in one of the following areas:

- ROP Computer Drafting and Design
- ITT Technical Institute Computer Drafting and Design
- COC—Discover Engineering
- COC—Materials of Engineering
- COC—Intro to Science, Engineering and Technology

Drafting 1B—Mechanical

This course provides a background into mechanical, two-dimensional orthographic projection) multi-view drawings of parts used in manufacturing, and more in-depth commands for the AutoCAD system. Through the semester, students will learn procedures necessary to complete basic 2D and isometric mechanical drawings, along with blocks, attributes and AutoCAD system variables for improved user efficiency.

