



Carl Perkins
Career and Technical Education Act of 1998

A Perkins Pathway offers:

- A sequence of courses preparing students for entry-level employment
- Information on All Aspects of an Industry
- Expanded use of technology
- Professional development of teachers
- Evaluation of progress, including special populations
- Funds to initiate, improve, expand and modernize programs
- Services and activities that are of sufficient size, and scope
- Linkages from secondary to post-secondary including TECH-PREP programs

Students may request transfer to another school, based on program availability and intradistrict transfer procedures.

Project Lead the Way Pre-Engineering Vista del Lago High School

Vista del Lago offers a flexible and rigorous high school four-year program that recognizes students' college preparatory math and science sequences and their career goals. The three-tiered approach (foundation, specialization, and capstone) prepares students to enter a two or four-year college or technical school in engineering and engineering technology, while offering students who do not intend to pursue further formal education the knowledge and logical thought processes in these courses.

Sequence of Classes for Pre-Engineering

Introduction to Engineering Design (IED)

An introductory course that develops students problem solving skills, with emphasis on visualization and communication skills using a computer and 3-D solid modeling software.

Principals Of Engineering (POE)

A broad-based survey course to help students understand engineering and engineering technology and identify career possibilities. Theoretical and hands-on problem-solving activities are emphasized.

Digital Electronics (DE)

A course of study in applied digital logic, using electronic logic circuits that first are designed and then tested using the latest computer digital-logic modeling technology.

Civil Engineering and Architecture (CEA)

A course that provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state-of-the-art software to solve real world problems and communicate solutions to hands-on projects and activities.

Engineering Design and Development (EDD)

Involves two-to-four-person teams that research an open-ended problem and then design and construct a solution to it. Each team must submit progress reports and a final research paper. The team members then defend the solution with an oral presentation before an outside review panel.

Skills Obtained in Pre-Engineering Pathway

- Use of Computer 3-D Modeling Software
- Engineering Technology Software
- Digital-Logic Modeling Technology and Architecture Software
- Theoretical and Hands-on Problem-Solving Skills

Post-Secondary Options (partial listing) Community College, Universities, Trade Schools

California Institute of Technology

355 South Holliston Avenue
Pasadena, CA
(626) 395-6341
www.caltech.edu

California Poly, Pomona

3801 West Temple Avenue
Pomona, CA 91766-4003
(909) 869- 2000
www.csupomona.edu

California Poly, San Luis Obispo

San Luis Obispo, CA 93407
www.calpoly.edu

California State University, Los Angeles

5151 State University Drive
Los Angeles, CA 90032-8530
www.calstatela.edu

California State University, Fullerton

P.O. Box 6900
Fullerton, CA 92834-6900
(714) 278-2300
www.fullerton.edu

California State University, Long Beach

1250 Bellflower Blvd.
Long Beach, CA 90840-0106
www.csulb.edu

Riverside Community College

4800 Magnolia Avenue
Riverside, CA 92506-1293
(951) 222-8000
www.rcc.edu

San Bernardino Valley College

701 South Mount Vernon Avenue
San Bernardino, CA 92410
(909) 384-4400
www.valleycollege.edu

University of California, Riverside

900 University Avenue
Riverside, CA 92521
www.ucr.edu