



Engineering Design Career Pathway



Santa Paula High School is proud to offer an Engineering Career Pathway. Students explore career options in their 9th grade *Choices: College & Careers* class, and have the opportunity to select a pathway to start in the fall of the 10th grade year. According to the State Center Consortium, "This pathway is ideal for students who have a strong understanding of mathematics and a creative drive to design new ideas."



Have you ever wondered how things work? Take the first steps toward your future! Students with an interest in Robotics or Engineering or who have participated in the MESA program should see their counselor to complete an application now!

Engineering Design Pathway Classes

- ❖ **Computing with Robotics (10th)**
Prerequisite: Math 1/1H (Math 1B must receive approval of course instructor)
- ❖ **Introduction to Drafting/CAD (11th)**
Prerequisite: Math 2
- ❖ **Honors Robotics, Capstone (12th) (ROP)**
Pre/Co-requisite: Intro to Drafting; Math 3 or Higher; OR
- ❖ **Technology and the Art of Engineering, Capstone (12th) (ROP)** *Pre/Co-requisite: Intro to Drafting; Math 3 or Higher*

The Engineering Design Career Pathway is designed to provide students with experiences in the various disciplines of Engineering. The Pathway will prepare students for the following degree/certification programs:

Ventura College: Mechatronics (program under development); Drafting Technology, Architectural Design, Architectural Sciences.

Moorpark College: Engineering
The Engineering Design Career Pathway also could lead to UC and CSU degrees in Engineering.

Engineering Design Careers

- ❖ **Civil Engineers**
- ❖ **Mechanical/Electrical Engineers**
- ❖ **Drafters/Designers**
- ❖ **Architects**
- ❖ **Structural Engineers**
- ❖ **Software Engineers**
- ❖ **Robotics**
- ❖ **Mechatronics**
- ❖ **Engineering Technician**

Source:
<http://statecenter.com/resources/industry-sectors>



Additional information may be found on the Santa Paula High School website, under "Programs."

Please note: Program Development continues to be revised and refined to best meet regional needs and align with certification and college programs. Classes may be changed as part of this process. 10-28-2016