



# Engineering Design Pathway

## **Concentrator Course: Aerospace Engineering**

This concentrator course builds upon the Engineering and Architecture introduction course and provides students with additional concepts and experiences required for career readiness and to pursue further education in the Engineering Design career pathway. This concentrator course leads to the capstone course in the Engineering Design pathway's sequence of courses.

Students explore the physics of flight and bring what they're learning to life through hands-on projects like designing a glider and creating a program for an autonomous space rover.

## **Capstone: Digital Electronics**

This capstone course further builds upon the Engineering and Architecture introduction course, and Engineering Design pathway concentrator course/s, in this sector. The capstone is the final course taken in the complete sequence of courses. This career technical education capstone course provides content, skill development and leadership training which prepare students for the world of work and to pursue further education such as industry certifications and a postsecondary degree.

Students explore the foundations of computing by engaging in circuit design processes to create combinational logic and sequential logic (memory) as electrical engineers do in industry



**Santa Monica High School**

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