

ENGINEERING TECHNOLOGY

Engage in a series of project-based learning courses that teaches students various principles of mechanical, electrical, and civil engineering disciplines. Students apply individualized knowledge to a group project that simulates the real engineering world while producing prototypes based on a needs-based prompt. This pathway funded as a California Partnership Academy includes a robotics course that teaches electro-mechanical design and programming.

9TH *MAKERSPACE: INTRO TO DESIGN/BUILD
10TH COMPUTER-AIDED DRAFTING
11TH PRINCIPLES OF ENGINEERING A
12TH PRINCIPLES OF ENGINEERING B

COMPUTER SCIENCE

Improve your critical thinking and problem-solving skills in this pathway funded as a California Partnership Academy. Learn the most popular programming languages used today, compete in statewide coding competitions and develop skills that will lead to high demand/high paying careers. Two of the courses in this pathway provide opportunities for earning college credit by taking the AP exams.

9TH *COMP SCI & ROBOTICS FOR BEGINNERS
10TH EXPLORING COMPUTER SCIENCE
11TH AP COMPUTER SCIENCE PRINCIPLES
12TH AP COMPUTER SCIENCE A

DESIGN ARTS (GRAPHIC DESIGN)

In the Design Arts Pathway students will acquire graphic design skills while learning Adobe's Creative Cloud Suite (Photoshop, Illustrator, InDesign, and CC Express) and will learn about career opportunities in the graphic arts. Students have the opportunity to learn pixel and vector-based art with fun, creative projects. Students learn in a state-of-the-art computer lab.

9TH *INTRO TO ARTS, MEDIA & ENTERTAINMENT
10TH DIGITAL ART/GRAPHIC DESIGN PRODUCTION
11TH DIGITAL ART & GRAPHIC DESIGN II
12TH ADVANCED GRAPHIC COMMUNICATIONS

MEDIA PRODUCTION (DIGITAL MEDIA/FILM)

Explore creative expression through digital storytelling! Learn the production processes used in filmmaking and television news production. This pathway gives students hands-on experience using professional-grade equipment and software while creating content for the Morning Bulletin broadcast and other special projects. Receive free college credit for DMA 2 and Broadcast Production.

9TH *INTRO TO ARTS, MEDIA & ENTERTAINMENT
10TH DIGITAL MEDIA ARTS I
11TH DIGITAL MEDIA ARTS 2
12TH ADVANCED PRODUCTION AND BROADCASTING

STEAM

FRANKLIN HIGH SCHOOL

Student leadership
Collaborate with peers
Become better problem solvers
College/career trips
Competitions
Mentorships
Internships

ANIMATION

Animation provides an in-depth look at the history, principles, and production processes used in animation. Create 2D and 3D animation projects, short films, and learn how these skills are used in both the game design and visual effects industries. Learn professional-level software and earn free college credit in both Intermediate and Advanced Animation.

9TH *INTRO TO ARTS, MEDIA & ENTERTAINMENT
10TH INTRODUCTION TO ANIMATION
11TH INTERMEDIATE ANIMATION
12TH ADVANCED ANIMATION

ENGINEERING DESIGN

Learn the background, skills, and theory to convert the designs of architects and engineers into technical drawings and plans. This pathway emphasizes the skills needed for success in architectural, civil, electrical, or mechanical drafting and engineering occupations. These skills include the design process, drafting standards and practices, technical communication, and design critique and presentation.

9TH *MAKERSPACE: INTRO TO DESIGN/BUILD
10TH COMPUTER-AIDED DRAFTING
11TH ENGINEERING DESIGN A
12TH ENGINEERING DESIGN B

9 TH GRADE	10 TH GRADE	11 TH GRADE	12 TH GRADE
World Geography English with minis Math with minis Science PE Health & Comp Tech/World Lang STEAM Optional Course	World History English with minis Math with minis Science World Language PE STEAM Introductory Course	US History English Math Science World Language VAPA/Elective STEAM Intermediate Course Elective	Am Government & Economics English Math Science/Elective World Language/Elective STEAM Capstone Course STEAM Optional Course/elective Elective

COURSE INFORMATION

Course Title	Required	Optional	A-G	College Credit	VAPA Credit
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ANIMATION

Intro to Arts Media & Entertainment		✓	✓		
Introduction to Animation	✓		✓		✓
Intermediate Animation	✓		✓		✓
Advanced Animation	✓				✓

COMPUTER SCIENCE

Computer Science & Robotics for Beginners		✓			
Exploring Computer Science	✓		✓		
AP Computer Science Principles	✓		✓	✓	
AP Computer Science A	✓		✓	✓	
Machine Learning Honors		✓	✓		

DESIGN ARTS (GRAPHIC DESIGN)

Intro to Arts Media & Entertainment		✓	✓		
Digital Art/Graphic Design Production	✓		✓		✓
Digital Art & Graphic Design II	✓		✓		✓
Advanced Graphic Communications	✓		✓		✓

MEDIA PRODUCTION (DIGITAL MEDIA/FILMMAKING)

Intro to Arts Media & Entertainment		✓	✓		
Digital Media Arts 1	✓		✓		✓
Digital Media Arts 2	✓		✓	✓	✓
Advanced Production and Broadcasting	✓		✓	✓	
Audio Production 1		✓			
Video Production 3		✓			

ENGINEERING DESIGN

Makerspace: Intro to Design & Build		✓			
Computer-Aided Drafting	✓			✓	
Engineering Design A	✓		✓		
Engineering Design B	✓		✓		

ENGINEERING TECHNOLOGY

Makerspace: Intro to Design & Build		✓			
Computer-Aided Drafting	✓			✓	
Principles of Engineering A	✓		✓		
Principles of Engineering B	✓		✓		
Robotics		✓			