

Science Technology Engineering and Math

Business and Industry Endorsement
STEM Program of Study

Do you...
like making decisions and creative problem solving?
like interacting with computers?
enjoy taking apart and putting items back together?
like working with numbers, symbols and ideas?
have good critical thinking skills along with good time management skills?
Like asking questions and generating new solutions then testing them out?

Then prepare for your future with an exciting STEM career!

Knowledge in areas of science, technology, engineering and math can be the key to your successful future. STEM careers range from solving clean water and hunger needs globally to business and economic endeavors.

**Career and Technical Education
Pasadena ISD**

Pasadena ISD Pathways

Engineering
Process Technology



Fastest Growing Careers

Aerospace Engineer
Environmental Engineer
Geological & Petroleum Engineer
Process Technician

Highest Paying Careers

Petroleum Engineer	\$172,570
Aerospace Engineer	\$124,430
Software Engineer	\$103,530
Marine Engineer	\$101,720

Careers To Consider

4 Year College Degree & Higher:
Biomedical Engineer
Chemical Engineer
Electrical Engineer
Mechanical Engineer

2-Year College Degree:
Drafting and Design Technology
Engineering Technician
Process Technician

Certification and HS Diploma:
Cost Estimator
Biomedical Auditor
Fluid Power Systems Designer

Career Pathways in Pasadena ISD

	Grade 9	Grade 10	Grade 11	Grade 12
Engineering CTHS, PHS, PMHS, SHHS, SRHS	Principles of Applied Engineering	Engineering Design and Presentation I	Engineering Design and Problem Solving Engineering Design and Presentation II (CTHS Only)	Practicum in STEM
Process Technology DHS, PHS, PMHS, SHHS, SRHS	Principles of Applied Engineering	Engineering Design and Presentation I	Practicum in STEM	Practicum in STEM
Computer Science CTHS, DHS, PHS, PMHS, SHHS, SRHS	AP Computer Science Principles	Computer Science 1	AP Computer Science	TBD

Please refer to the Pasadena Course Selection and Registration Guide for more information on career pathways, endorsements, course requirements, and certification opportunities offered at each high school campus.

Earn Industry Certifications

Autodesk Certified Professional or User (ACU) - Inventor



Career and Technical Student Organization—SkillsUSA

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA teaches the importance of developing leadership skills, positive attitudes and pride in workmanship. SkillsUSA prepares students for employment by introducing them to corporate quality culture. SkillsUSA emphasizes respect for the dignity of work, high standards in trade ethics, superior workmanship, quality and safety.

SkillsUSA

PASADENA

**INDEPENDENT
SCHOOL DISTRICT**