

# Silicon Valley Career Technical Education



## CTE Fun Facts



# What is CTE?



## Career & Technical Education

CTE prepares students with technical, academic and employability skills for success in the workplace and in further education.

# CTE in California

is an option that provides learners with the knowledge and skills they need to be prepared for college, careers and lifelong learning.



**CTE gives purpose** to learning by emphasizing real-world skills within a selected career focus.

# History of CTE

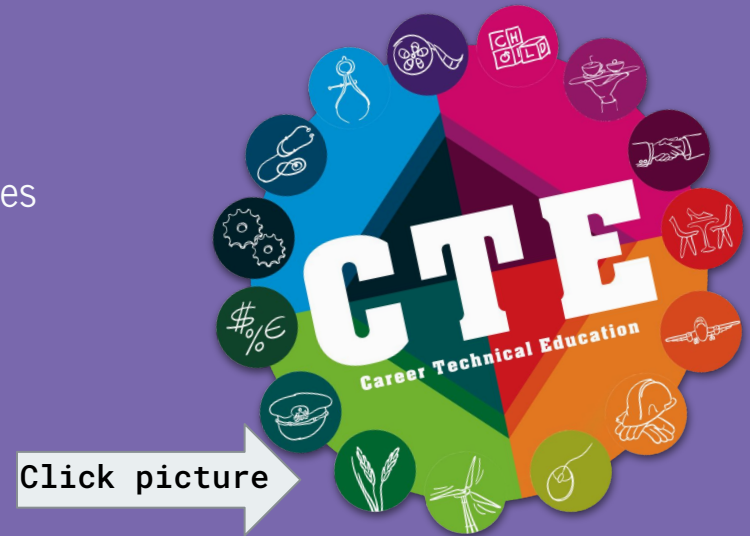
- Vocational Education evolved from the agricultural and industrial economies
- 1917 Smith-Hughes Act- 1st federal funding for vocational ed.
- Polytechnic high schools were formed during the 1920's - 1950's
- It started with only five subject matter areas: Business, Agriculture, Trade and Industrial, Health and Home Economics
- 1940s- Voc ed helped support National Defense efforts
- 1963- Vocational Education Act
- ROCPs were legislated into California law in 1967
- ROCPs were designed to Share resources rather than duplicate, Serve students regionally, and Include high school students above 16 and adults
- 54 ROCPs were formed between 1968 and 1977, then grew to 74
- 1984- National Vocational Education Act renamed Carl D Perkins Vocational Education Act

# History of CTE.....

- 1988 - First California Partnership Academy grants
- Carl D. Perkins Act of 1990 declared the need to integrate vocational education and academic curricula
- SCANS Commission 1991-1992 published document on the skills and knowledge that all students need to acquire
- 1996 – Federal School-to-Career grant to California
- Vocational Education enrollments remained flat over 1990s
- 2000 Voc Ed changed to Career Technical Education
- 1992-93 1M secondary and adult students enrolled in CTE statewide
- Enrollments in secondary CTE courses declined 33% from 1992-93 to 2006-07, then 2008/09 to 2010/11 16% increase in enrollment
- 2009 State categorical funding was redefined, which included districts use these funds however they wish, resulting in dismantling of programs
- 2013/14/15 required Maintenance of effort
- July 1, 2015 MOE ended, ROCP funding is now part of LCFF and is fully flexible

# Industry Sector Pathways

- Agriculture & Natural Resources
- Arts, Media & Entertainment
- Building & Construction
- Business & Finance
- Education, Child Development, & Family Services
- Energy, Environment, & Utilities
- Engineering & Architecture
- Fashion & Interior Design
- Health Science & Medical Technology
- Hospitality, Tourism & Recreation
- Information, & Communication Technologies
- Manufacturing & Product Development
- Marketing, Sales & Services
- Public Services
- Transportation



# Components of a CTE Class

- Industry → Pathway
- Labor Market (LMI)
- Competencies
- CTE Standards
  - **Anchor**
  - **Pathway**
- Key assignments
- Academic Standards (CCSS)
- UC a-g
- Articulation
- Industry Advisory
- Work-based learning
- Industry certifications

# Articulation vs. Dual Enrollment

## Articulation

- College Credits!
- High School class = College class
- Agreement
- Build pathways from K12-college



## Dual Enrollment

- College Class while in High School
- Head Start
- Grade on Transcript
- Free



# Work-Based Learning

## Community Classroom

- Unpaid Internships
- Earn Credits
- Must be related to the CTE class the student is enrolled in



## Cooperative Vocational Ed.

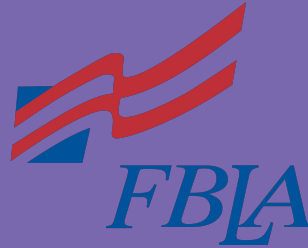
- Paid job (usually student acquired)
- Earn Credits
- Must be related to the CTE class the student is enrolled in

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# Career Technical Student Organizations (CTSOs)



*Marketing*



*Business & Finance*



*Healthcare*



*Miscellaneous*



*Hospitality & Tourism*



*Agriculture*

# Silicon Valley Career Technical Education

- From 1917 to 1920, *San Jose Technical High School* offered 5 classes: *woodworking/pattern making, mechanical drawing, machine shop, shop mathematics, vocational English*. The school accepted male students, only.
- In 1920 auto mechanics, vulcanizing and history were added; 1921 sheet metal and printing were added, and in 1927 plumbing and electrical rounded out the classes that remained in place until the Center concept began in 1958.
- From 1921 to 1958 *San Jose Technical High School* was located where the Engineering Building is located on the *San Jose State University* campus.
- In 1952, *San Jose Technical High School* moved to a new facility at 2100 Moorpark Avenue in San Jose. This is now the site of *San Jose City College*. During this time, *San Jose City College* (then known as *San Jose Junior College*) moved onto the site with *San Jose Technical High School*. A bitter community struggle was waged over the future of *San Jose Technical High*; local trade unions and employers opposed dropping Technical High and a Board recall movement was initiated.
- A compromise resulted in the vocational center concept with *San Jose High School, Lincoln High School, and Willow Glen High School* busing tenth, eleventh and twelfth graders to-and-from the center. Students spent half of their day at the center and half of their day at their home high schools. The center concept that is utilized today began at Technical High School in 1958.



# Silicon Valley Career Technical Education.....

- **1963** *San Jose Junior College* became a separate district and arrangements for a buy-out of *San Jose Technical High School* were started.
- **1965** Legislation made it possible to establish Regional Occupational Centers. Two or more cooperating districts could establish a center and legislation prohibited establishing more than one center per county.
- Agreements were reached between *San Jose Unified School District*, *East Side Union High School District* and *Campbell High School District* to purchase land and build a facility at 760 Hillsdale Avenue in San Jose.
- The legislative intent for the Centers was to provide high-quality vocational, technical, and occupational preparation programs through a broad curriculum. The Center was to provide opportunities for several schools in one central location to avoid duplication of courses and to avoid the necessity of each high school needing to purchase expensive equipment. The programs were to be flexible so that they could easily be altered to meet new training needs as they arose within the community.



# Silicon Valley Career Technical Education.....

- **1967** The first students from *East Side Union High School District* and *Campbell Union High School District* attended classes at the *San Jose City College* site, on a pilot basis.
- **1968** The legislature changed the law to allow Regional Occupational Centers (ROC) and Regional Occupational Programs; permitting the use of multi-facilities at various high school locations in addition to the single, central facility. This was the beginning of the Regional Occupational Programs (ROP).
- The Hillsdale site opened in 1968, the same year *Santa Clara Unified School District* joined the consortium. This was the beginning of a co-ed school, health occupations classes were added to the curriculum and only junior and senior high school students were allowed to attend.
- **1969** *Milpitas Unified School District* separated from *East Side Union School District* and became a new district; Milpitas became the sixth district to participate.



# Silicon Valley Career Technical Education.....

- **1973** *Los Gatos-Saratoga Unified School District* joined as the sixth and final participating district. The six school districts are still members of the consortium.
- **1976** The Hillsdale site was expanded and three new buildings opened. Business, Office, and Computer classes were offered for the first time.
- **1983** A Joint Powers Agency was formed by the six participating districts; one elected school board member from each district serves as a board member on the MetroED Governing Board.
- The school serves high school students from 34 high schools within the six school districts. Students can select from 19 career choices within 13 industry sectors, including: *Automotive Technology, Building Technology, Business Technology, Engineering/Industrial Technology, Health and Community Services, Visual Arts and Cosmetology*. Renamed *Silicon Valley Career Technical Education*, the organization provides 28 courses to students from 40 high schools in Santa Clara County.
- **2014** Renamed *Silicon Valley Career Technical Education*, the organization provides 28 courses to students from 40 high schools in Santa Clara County.



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# Silicon Valley Career Technical Education

- ▶ Serves 7 school districts
- ▶ Over 40 high schools
- ▶ 25 high quality Career Tech programs
- ▶ 23 UC 'a-g' approved classes
- ▶ 1200 trained students
- ▶ Extended After School Programs
- ▶ Summer Exploration Programs
- ▶ Virtual CTE classes





# Students in our programs:

- ▶ Find meaning in school
- ▶ Go to college
- ▶ Participate in leadership activities
- ▶ Gain Industry certifications
- ▶ Improve School Attendance
- ▶ Earn more money life-long



# High School CTE Programs



# Transportation Skilled Trades

Automotive Services

Auto Body Refinishing

Auto Body Repair

Clean Diesel Technology

Electrical Vehicles / Auto Services



# Building and Construction / Manufacturing Skilled Trades

Construction

Electrical Maintenance

HVAC (Heating, Ventilation, Air Conditioning)

Metals Technology



# Health Science and Medical Technology Skilled Trades

Dental Assisting  
Medical Assisting  
Nursing Careers  
Medical Science /  
Health Careers  
Mental Health Careers



# Health Science and Medical Technology Skilled Trades, ctd.

Pharmacy Technician  
Sports Medicine  
Veterinary Science



# Arts, Media, Entertainment, and other Skilled Trades

Animation

Culinary Arts

Fashion Design & Textile Art

Film & Video Production

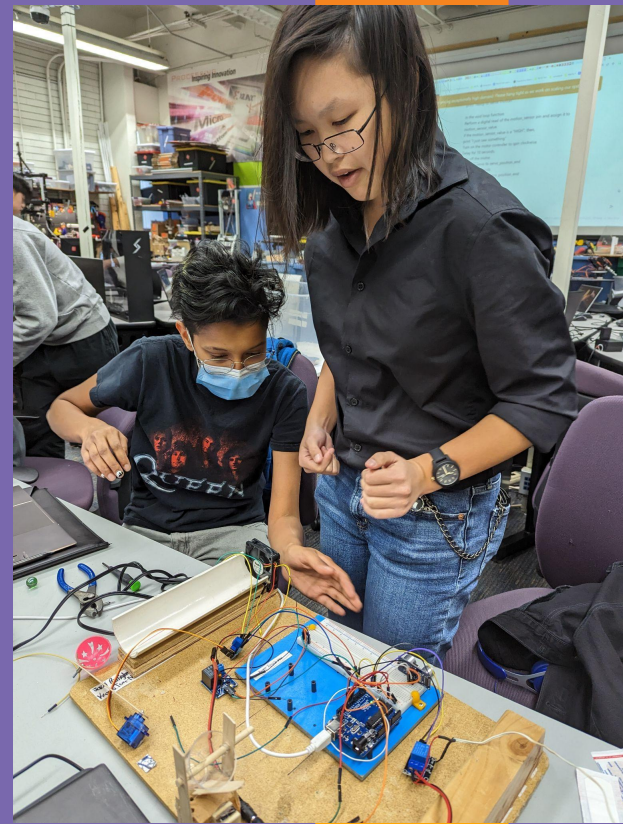


# Information and Communication Technology / Engineering

Cybersecurity

Mechatronics Engineering

Mobile App & Web Development





# Public Services Skilled Trades

Public Safety Careers

Fire Science / First Responder

Forensic Science

Law Enforcement





# UC 'A-G' Approved Classes

C- Mathematics	D - Science	G- College Prep Elective	F - Visual & Performing Arts
Construction Technology	Fire Science/First Responder	Mobile App	Animation
Electrical Maintenance	Forensic Science	Pharmacy Technician	Fashion Design & Textile Art
HVAC	Mechatronics Engineering	Dental Assisting, <b>Nursing Careers</b>	Film & Video Production
Metals Technology	Medical Science/ Health Careers, <b>Nursing Careers</b>	Medical Assisting, Medical Science/ Health Careers	
	Sports Medicine & Kinesiology	Law Enforcement, Cybersecurity	
	Veterinary Science, <b>Electrical Vehicles</b>	<b>Electrical Vehicles</b>	



# Our Students Work At:

- ▶ Apple
- ▶ Cupertino Electric
- ▶ CVS Pharmacies
- ▶ Google
- ▶ Disney
- ▶ Dentist Offices
- ▶ Kaiser
- ▶ Palo Alto Medical Clinic
- ▶ Santa Clara Fire Department
- ▶ Tesla
- ▶ Toyota
- ▶ Alexander's Steakhouse





**SVCTE Extended Learning for Grades 9 - 12**  
(Enrichment or Credit Recovery)

**Date:** January 9th - May 23rd, 2024

**Enrollment:** October 12th - December 6th, 2023

**Credits Earned:** 5 credits

Offered Courses - **Tue & Thu, 4:15 - 6:15 PM:**

<ul style="list-style-type: none"> <li>❖ Animation</li> <li>❖ Auto Services</li> <li>❖ Dental Assisting</li> <li>❖ Fashion Design &amp; Textile Arts</li> </ul>	<ul style="list-style-type: none"> <li>❖ Film &amp; Video Productions</li> <li>❖ Medical Science/ Health Careers</li> <li>❖ Medical Assisting</li> <li>❖ Veterinary Science</li> </ul>
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Offered Course - **Mon-Thu, 4:15 - 6:15 PM:**

<ul style="list-style-type: none"> <li>❖ Cybersecurity</li> </ul>
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- ⚠ Transportation will be provided to and from homeschool to SVCTE based on availability. Details will be shared after rosters are finalized. Students exceptionally enrolled after December 6th will not receive transportation from SVCTE
- ⚠ **Ask your counselor for the registration link and course code to sign-up**

# Extended Learning

(click for updated)

# CTE SUMMER EXPLORATION

JUNE 3-28

Registration mid-April through June 1

FREE COURSES

- >>> Monday - Thursday classes  
Session 1: 8:30 to 11:30 a.m.  
Session 2: 12:45 to 3:45 p.m.
- >>> Incoming 9 - 12 grade students
- >>> 5 elective credits per session!
- >>> Interactive with a "learn by doing" experience and hands-on learning STEAM topics
- >>> *Classes:* Animation, Fashion Design & Textile Art, Film & Video Production, Medical Assisting, Medical Science/Health Careers, and Veterinary Sciences



**LIMITED SPACES**

Contact your high school counselor to register

Transportation may be available.

MetroED District  
@MetroED2022



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Donations welcome to contribute towards transportation and snacks

# Career Exploration

(click for updated)



**Silicon Valley**  
Career Technical Education

REGISTRATION OPENS  
**OCTOBER 15**

# VIRTUAL CTE CLASSES



**Making quality higher education in CTE within reach:** Learn skills for a career you love or want to just explore.

Session(s)*	Weeks/Hrs	Cost
Session 1: 10/30 - 1/26	10 weeks = 100 hrs	\$350
Session 2: 1/29 - 4/19	10 weeks = 100 hrs	\$350
Session 3: 4/22 - 5/30	6 weeks = 60 hrs	\$210

\* attend one or more sessions

## CLASS SCHEDULE

- 2 Days via Zoom (Monday - Friday) Delivery/Check-in
- 2 Days Independent Study
- 1 Day Tutoring/Discussion/Assignments Due

CTE Classes	Description	Information
<b>Medical Sciences Health Careers - Intro</b>	This class supports all levels of Interest, from those wishing to enter the health field to experienced professionals looking to advance their knowledge to college and careers.	UC "a-g" course approved.
<b>Fashion Design &amp; Textile Art - Intro</b>	Students apply art elements and principles of fine art and design to their work. Students will produce work that demonstrates Individual gravity, multicultural elements and problem solving apility.	Certificates Available Session II

# Virtual Learning

(click for updated)

# Thank you!

Together **WE** can help our communities prepare students for college and careers, fill local jobs, and establish the support system that enables one to stay and thrive in Silicon Valley.

For more information:

Contacts:

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