

# WHAT IS SILICON VALLEY CAREER TECHNICAL EDUCATION (SVCTE)?

We are a hands on Science, Technology, Engineering, Arts, and Mathematics (STEAM) high school program offering 28 courses (20 of which are UC "a-g" approved) that prepare students for college and future careers.

The program is FREE for qualified 10, 11, and 12 grade students training for a specific career path. Students who attend classes at the SVCTE site enrolled in the program must commit to the morning (7:30 a.m. - 10:30 a.m.) or afternoon (12:45 p.m. - 3:45 p.m.) session Monday - Friday. Bus transportation is provided from the student's home high school to SVCTE and back to the home high school for our partnering school districts.

SVCTE also offers Extended Learning, Summer Exploration, and Virtual programs. These diverse programs meet UC college prep elective requirements.

## FUN CTE FACTS:

Students are 8 to 10 times less likely to drop out if they enroll in a CTE program.

*California Department Ed., 2023*

The average high school graduation rate for students concentrating in CTE programs is 98% in California.

*Perkins.ed.gov, 2021*

80 percent of students taking CTE met college and career readiness goals.

*California Department Ed., 2023*

## WHY SVCTE?

- ✓ College articulations and dual enrollment
- ✓ Earn up to 30 high school credits
- ✓ Taught by Industry experts
- ✓ Explore different pathways
- ✓ Competitive advantage for college admission
- ✓ Gain confidence
- ✓ Internship opportunities
- ✓ Project based courses
- ✓ UC "a-g" approved courses
- ✓ Obtain high paying careers



## PROUD PARTNERSHIP WITH:



To register for a course, please contact your home school counselor.

**MEET YOUR FUTURE,  
HEAD ON.**

## OPEN TO ALL STUDENTS IN SANTA CLARA COUNTY

A service to the community by



Follow on:



**SCHEDULE A CAMPUS TOUR:**

760 Hillsdale Avenue  
San Jose, CA 95136  
Phone: 408-723-6403  
www.SVCTE.org

SILICON VALLEY CAREER  
TECHNICAL EDUCATION

**2024-  
2025  
COURSES**

Engaging Students in Rigorous,  
Real-World Academics and Skills  
Development



### **ANIMATION (UC "f")**

Acquire skills in basic figure drawing, cell animation, 2D, and 3D computer animation. Develop an understanding of scriptwriting, storyboarding, and sound design.

### **AUTO BODY REFINISHING**

Use restoration techniques to prepare vehicles for spray finishing and detailing. Learn proper techniques and paint applications in a professional shop environment.

### **AUTO BODY REPAIR**

Develop surface preparation including welding, metal straightening, and finishing to return cars to pre-accident condition.

### **AUTOMOTIVE SERVICES \*\***

Study eight areas of basic and advanced skills in brakes and alignment, electrical and electronic systems, engine repair, engine performance, heating ventilation, and air conditioning, as well as suspension and steering.

### **CONSTRUCTION TECHNOLOGY (UC "c")**

Design, estimate, and construct buildings with carpentry tools and equipment using industry standards. Receive OSHA safety training while building houses from foundation to roof.

### **CLEAN DIESEL TECHNOLOGY (NEW TRANSPORTATION ENGINEERING)**

Discover the ins and outs of light and heavy vehicles through hands-on exercises, and gain the skills needed for an entry-level career in transportation. Explore the latest in zero-emissions technology, combining theory and practical applications.

### **CULINARY ARTS \*\***

Master stock preparation, meat, poultry, and seafood cuts, and diverse cooking techniques in a commercial kitchen. Gain skills for various kitchen roles and restaurant settings, preparing for future career and college education.



### **CYBERSECURITY (UC "g")**

Train to address technical challenges in networked systems, safeguarding vital data in private and public sectors. Develop skills in securing communications and identifying risks for networks and devices.

### **DENTAL ASSISTING (UC "g") \***

Prepare to become a dental assistant, dental hygienist, and dentist. Acquire chair-side assisting skills, laboratory, and x-ray capabilities. Qualified students may earn state certification in radiation safety and infection control.

### **ELECTRICAL MAINTENANCE (UC "c")**

Install, maintain, troubleshoot, and repair residential and commercial electrical systems. Successful students are qualified to receive a California Electrical Training Card.

### **ELECTRICAL VEHICLES/AUTOMOTIVE SERVICES (UC "d" or "g")**

Explore passenger cars, electrical circuit board trainers, diverse EV transportation, and industry tools. This program is National Automotive Technicians Education Foundation (NATEF) certified.

### **FASHION DESIGN & TEXTILE ART (UC "f") \*\***

Discover entry-level skills in the clothing and fashion field. Style, line, color, and design principles set the tone for creating garments. Students will apply principles of fine art and design to their work.

### **FILM & VIDEO PRODUCTION (UC "f") \*\***

Gain an understanding of scriptwriting for television and film, storyboarding, directing, editing, and sound design engineering. Produce videos for business and entertainment while engaging in the history of cinema.

### **FIRE SCIENCE/FIRST RESPONDER (UC "d")**

Become introduced to fire department and emergency services fields and techniques used to perform the job. The class focuses on academic, technical skills, and employability practices.



### **FORENSIC SCIENCE (UC "d")**

Develop the knowledge and training related to forensics while exploring the procedures to solve crimes. Topics include investigating crime scenes and laboratory safety rules and regulations.

### **HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) (UC "c") \***

Acquire skills in maintenance, overhaul, repair, and adjustment of residential and commercial heating, air conditioning, and refrigeration units.

### **LAW ENFORCEMENT (UC "g")**

Prepare for a career in public and private investigative fields. Understand the criminal justice system, investigate crimes, and improve decision-making skills.

### **MECHATRONICS ENGINEERING (UC "d")**

Design, build and program robotic mechanisms through a combination of electrical and mechanical engineering. Students will apply C++ and Python coding to direct microcontroller parts.

### **MEDICAL ASSISTING (UC "g") \***

Become proficient in back office medical procedures, including medical terminology, lab procedures, anatomy, and physiology. Clinical training in hospitals, clinics, and doctors' offices may be available.

### **MEDICAL SCIENCE/HEALTH CAREERS (UC "d" or "g") \***

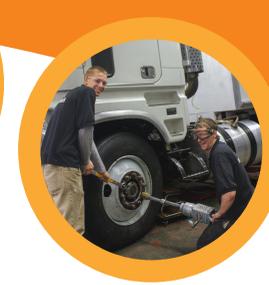
Focus on human biology, disease, hands-on patient care, medical terminology, leadership and teamwork, with job shadow opportunities. This course provides preparation for students who aspire to become nurses and doctors for a career in the medical field.

### **MENTAL HEALTH CAREERS (COUNSELING & MENTAL HEALTH)**

Develop the necessary skills through simulated environments, applying knowledge of ethical and legal responsibilities, recognizing the impact of actions on professional integrity.

### **METALS TECHNOLOGY (UC "c" or "g") \* \*\***

Take in welding theory and safety with hands-on experience in the operation of welding equipment. Welding is used in auto repair, building construction, ornamental ironwork, and many machinery jobs.



### **MOBILE APPS & WEB DEVELOPMENT \*\***

Discover graphic design and programming for mobile platforms and devices. Learn the process of designing, coding, and deploying mobile applications for use in e-commerce, productivity, enterprise, and web purposes.

### **NURSING CAREERS (UC "d" or "g") \***

Understand theoretical concepts and real-world applications of the abilities required to work as a Certified Nursing Assistant. The state of California certifies students as an entry-level member of a healthcare team in a hospital or long-term care facility.

### **PHARMACY TECHNICIAN (UC "g") \***

Realize academics, technical skills, and employability practices essential in the pharmacy profession. This course prepares students with the knowledge and skills required for employment as a pharmacy technician or pharmacy clerk.

### **PUBLIC SAFETY CAREERS**

Explore diverse public safety careers like law enforcement, security, corrections, EMT, and firefighting, with hands-on experiences in evidence gathering, fingerprinting, fire control, and emergency response techniques.

### **SPORTS MEDICINE & KINESIOLOGY (UC "d") \* \*\***

Acquire knowledge in anatomy, physiology, fitness, exercise, vitals, and nutrition. Gain experience in taping, training room management, injury treatment and training, patient care, and bio-metrics of movement.

### **VETERINARY SCIENCE (UC "d")**

Learn anatomy and physiology, as well as animal health and disease, animal behavior and client communication to prepare for employment in veterinary careers.

**\*Apprenticeship & internships may be offered**

**\*\* Advanced course may be available**