23 CTE COURSES

WHAT IS SILICON VALLEY CAREER TECHNICAL EDUCATION (SVCTE)?

We are a hands-on UC "a–g" approved Career Technical Education Center high school program — with 22 of our 23 hands-on courses meeting UC admission requirements — preparing 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 attending SVCTE commit to a full-year schedule in either the morning session (7:30–10:30 a.m.) or the afternoon session (12:45–3:45 p.m.), Monday through Friday. Bus transportation is provided from the student's home high school to SVCTE and back to the home high school for our partnering Joint Powers Authority (JPA) school districts.

FUN CTE FACTS:

CTE high school students are college and career ready – 96% graduate high school and most enroll directly in college.
- **Perkins, 2023**

77% of employers from in-demand industries report hiring an employee because of knowledge and skills gained from their CTE experience.
- **Advanced CTE, 2021**

CTE is the answer to the nation's projected deficit of 6 million skilled workers through 2032.
- **Lightcast, 2024**

WHY SVCTE?

- ✓ Earn college credit with a competitive advantage for college admission
- ✓ Internship opportunities
- ✓ Taught by Industry experts
- ✓ Project based courses
- ✓ UC "a–g" approved courses
- ✓ Explore different pathways

FOLLOW US ON:

PROUD PARTNERSHIP WITH:

CAMPBELL UNION HIGH SCHOOL DISTRICT

EAST SIDE HIGH SCHOOL DISTRICT

Los Gatos-Saratoga UNION HIGH SCHOOL DISTRICT

Santa Clara Unified School District

MILPITAS UNIFIED SCHOOL DISTRICT

San José Unified School District

OPEN TO ALL STUDENTS IN SANTA CLARA COUNTY

REGISTER NOW

A SERVICE TO THE COMMUNITY BY

MetroED
Metropolitan Education District

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

SILICON VALLEY CAREER TECHNICAL EDUCATION

SVCTE

2026-2027 COURSES

We inspire, engage, and connect for success in life, college, and careers.

AI ENGINEERING
Develop intelligent systems that learn from data and adapt to new challenges, preparing for emerging careers. Students will learn and apply Python coding and machine learning models to solve real-world problems.

ANIMATION (UC "f") ^
Bring characters to life with stunning 2D computer animation! Learn the art of 3D modeling and basic game design. Dive into the craft of storyboarding and film production, and add the perfect vibe with sound design. Ready to unlock your creative side?

AUTOMOTIVE COLLISION REPAIR & REFINISHING (UC "g")
Learn to restore vehicles to their pre-collision condition through skills and techniques like welding, metal straightening, surface preparation, and finishing. Master professional painting, spray finishing, and detailing in a hands-on shop environment.

CONSTRUCTION TECHNOLOGY (UC "c") +^
Learn to design, estimate, and construct buildings using carpentry tools and equipment, following industry standards. Gain hands-on experience in building houses from foundation to roof, while also receiving OSHA safety training.

CULINARY ARTS (UC "d") +^
Explore your creativity in a professional kitchen, mastering food safety, cooking techniques, menu planning, and hospitality. Prepare for careers as chefs, pastry artists, food stylists, or restaurant managers, and take your first step toward a flavorful future.

CYBERSECURITY (UC "g")
Learn to tackle technical challenges in networked systems and protect critical data in both private and public sectors. Build skills in securing communications, identifying risks, and safeguarding networks and devices.

DENTAL ASSISTING (UC "g") *
Prepare for a career as a dental assistant, dental hygienist, or dentist career. Develop chair-side assisting skills, along with laboratory techniques and x-ray capabilities. Qualified students may also earn state certification in radiation safety and infection control.

ELECTRICAL MAINTENANCE (UC "c")
Learn how to install, maintain, troubleshoot, and repair electrical systems in homes and businesses. Students who successfully complete the course can earn a California Electrical Training Card.

ELECTRICAL VEHICLES/AUTOMOTIVE SERVICES (UC "d" or "g") ^
Explore the world of passenger cars, electrical circuit board trainers, and different electric vehicle (EV) systems. Gain hands-on experience with industry tools. This program is certified by the National Automotive Technicians Education Foundation (NATEF).

FASHION DESIGN & TEXTILE ART (UC "f") +^
Learn the foundations of the clothing and fashion industry, focusing on style, line, color, and design principles to create garments. Students will apply fine art and design techniques to their work, building a foundation for creative fashion design.

FILM & VIDEO PRODUCTION (UC "f") +^
Discover how to create powerful films through directing, editing, sound design, screenwriting, and creating videos for business and entertainment. Explore the history of cinema while learning to make your own films.

FIRE SCIENCE/FIRST RESPONDER (UC "d") +^
Get introduced to fire and emergency services, learning the techniques used in these fields. The course focuses on academic knowledge, technical skills, and practices needed for fire science and emergency response careers.

FORENSIC SCIENCE (UC "d") ^
Explore the field of forensic science by learning techniques used to solve crimes. The course covers crime scene investigation and the safety rules and regulations essential for working in forensic laboratories.

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) (UC "c") *
Develop skills in servicing, repairing, installing, and adjusting heating, air conditioning, and refrigeration units in residential and commercial environments.

LAW ENFORCEMENT (UC "g") ^
Get ready for a career in public and private investigation by learning about the criminal justice system, crime investigation and improving your decision-making skills.

MECHATRONICS ENGINEERING (UC "d")
Learn how to design, build, and program robots by mixing electrical and mechanical engineering. You'll use C++ and Python to control microcontrollers and bring your creations to life.

MEDICAL ASSISTING (UC "g") +^*
Build confidence to begin your journey in healthcare. Learn medical terminology, anatomy, and laboratory techniques while training in clinical and administrative procedures. Develop skills that lead directly to healthcare careers or further medical study.

MEDICAL SCIENCE/HEALTH CAREERS (UC "d" or "g") ^*
Explore human biology, diseases, and hands-on patient care while learning medical terminology, leadership, and teamwork skills. This course also offers job shadowing opportunities, helping you prepare for a career in health.

METALS TECHNOLOGY (UC "c" or "g") +^*#
Make sparks fly as you gain practical experience with welding equipment while learning safety protocols and techniques. These are valuable skills for auto repair, construction, metalworking, ornamental ironwork, and machinery careers.

NURSING CAREERS (UC "d" or "g") ^*
Learn and practice the skills to care for patients and assist healthcare teams. Complete the course to qualify for state certification and start working in hospitals or care facilities.

PHARMACY TECHNICIAN (UC "g") *
Gain the skills to launch your career in the pharmacy field. This course blends classroom learning with hands-on training in medication safety, prescription processing, pharmacy technology, and customer service.

SPORTS MEDICINE & KINESIOLOGY (UC "d") +^*
Explore human performance through anatomy, physiology, biomechanics, fitness, and nutrition. Gain hands-on experience in taping, injury care, and vital signs to prepare for careers in sports medicine, physical therapy, and allied health.

VETERINARY SCIENCE (UC "d")
Build a foundation in animal health through anatomy, physiology, disease prevention, behavior, and professional communication. Develop hands-on and workplace skills for veterinary careers or further study in animal science.

+Advanced course for 2nd year students

^ College Credit

*Internships may be available

 # Pre-apprenticeship may be available