

Sierra College's Career Technical Education (CTE) and workforce development programs play a critical role in equipping local students for high-quality, good-paying careers that meet the needs of employers today. **Nearly half** of all Sierra students are enrolled in CTE-related education programs, informed by job growth data, guided by industry, and delivered by top-notch faculty in modern classrooms with cutting-edge tools and technology.

To give all students the best learning environment possible, Sierra is investing over **\$500 million** in facility bond proceeds (Measure E) and leveraged state funds to construct a new science building, Applied Technology Center, Regional Public Safety Training Center, and more, to support CTE programs tied directly to destination jobs in healthcare, precision manufacturing, business, construction, cybersecurity, and more.

Sierra College is proud to serve as a **trusted community partner** offering instructional excellence and modern learning environments that meet the needs of all students and regional employers. Our CTE Annual Report, 2025 Edition, helps tell this story. To access the full report, use the QR code on the back of this handout.

**47%**

Sierra students enrolled  
in CTE programs

**140**

CTE Degrees and  
certificates offered  
by Sierra

**21**

CTE Programs of Study

**350**

Number of employer  
partners Sierra works  
closely with

**“Let’s invest in community colleges  
to build a workforce that is not just  
skilled, but also inclusive and resilient.”**

— Amy Schulz, Executive Dean, Workforce & Strategic Initiatives

## Sierra Offers a Wide Range of CTE Programs

Sierra college offers 21 different CTE programs. These programs interact directly with industries and employers within Sierra's service area and are informed by local labor market needs.



**Nursing and Allied Health.** Nursing, Medical Assisting, Phlebotomy, Surgical Technician, EMT, and Paramedicine.



**Precision Manufacturing.** Advanced Manufacturing (CNC machining, design, CAD /CAM), Mechatronics (industrial automation, robotics) and Welding.



**Public Safety.** Fire Technology, Administration of Justice.



**Building Industries.** Six-week Construction Fundamentals Boot Camp, Construction Management associate degree, Architectural Drafting, New Facilities Automation Technician certificate/degree.



**Applied Arts & Design.** Digital media. Graphic Design. Illustration. Film and Video Protection. Web and Interactive Design.



**Business.** Entrepreneurship, Business Administration, Accounting, Real Estate, Tax, Payroll, Retail Management.



**Information Technology.** Cybersecurity, Cloud Computer (AWS), Network Technician, IT Technician, Data Analytics, Computer Science for transfer.

# Career Technical Education Annual Report

Visit us to  
learn more!



## 39

Number of local  
high schools offering  
Sierra College dual  
enrollment courses

## 25,085

Students served in  
2023-24 (credit and  
noncredit)

## 3,969

Degrees and Certificates  
Awarded in 2023-24

## 43%

of enrolled students from  
communities of color

## Why CTE Programs Matter

- ✓ **Close Industry Alignment:** Instruction is designed in close collaboration with industry partners, preparing students for immediate employment in high-demand sectors such as healthcare, information technology, and advanced manufacturing, as well as preparing them for post-secondary success.
- ✓ **Fast-track to Employment:** Unlike traditional four-year degrees, CTE programs often offer shorter, more focused training, allowing students to enter the workforce more quickly.
- ✓ **Economic Benefits and Job Security:** CTE programs are designed to connect graduates to family-supporting jobs upon completion.
- ✓ **Community Building:** CTE programs ensure local communities have the workforce they need to meet their demands for skilled workers and grow their local economy.
- ✓ **Support the Underserved:** CTE programs play a crucial role in opening access to students who lack resources or familiarity with career opportunities or traditional educational pathways.
- ✓ **Better Educational Outcomes:** Participation in CTE programs is linked to higher high school graduation rates and improved postsecondary outcomes.

Sierra College's **Mechatronics** program offers a hands-on, project-based curriculum that integrates electronics, mechanics, and computer control, preparing students for careers in semiconductors, robotics, industrial automation, and electro-mechanical systems. Graduates are in high demand, with over 100 employers hiring alumni for roles in companies such as Bosch Semiconductor, Siemens, and Amazon Robotics, reflecting the program's strong industry alignment.



## Ella's Head Start into High-Tech

Ella's journey began at Del Oro High School with dual enrollment classes through Sierra College. One Mechatronics course changed everything. Inspired, she continued at Sierra after graduation, focusing on Mechatronics and earning her associate degree in just one year—thanks to her early head start. While in class, she joined the Bosch Semiconductor cohort, where her skills stood out. At 19, Bosch offered her a full-time technician role. Ella stepped into a high-paying, career-track job without a penny of debt. Unlike many peers just entering college, she's preparing for homeownership. Her story isn't over—Sac State is nearby for when she's ready to pursue a bachelor's, with Bosch's support. Ella's experience proves the power of combining dual enrollment, hands-on learning, and industry partnerships to create real opportunity – and real results – for Sierra students ready to leap ahead.

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