

2022-2023 Career Technical Education Year in Review

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Introduction

What Career Technical Education Means for Students

Career Technical Education (CTE) inspires and connects our students to their future careers. Through CTE curriculum, instruction, and work-based learning opportunities, students prepare to become creative and adaptable learners, productive problem solvers, and innovative community leaders. By collaborating with industry colleagues and aligning with our local colleges, our CTE teachers and staff create classroom environments that connect and fuel opportunity, contribute to our local workforce development efforts, and replicate relevant learning experiences where students succeed and actualize their potential.

Fresno Unified is committed to expanding relevant opportunities to its students through CTE experiences that build confidence, self-assurance, and the skills and abilities to launch into their career pathway.

This book contains a collection of highlights from CTE programs throughout the school year. To see even more student accomplishments and opportunities, go to ccr.fresnounified.org/career-connected to visit our online newsletter!

Student Spotlights

Students' Hard Work Pays Off

Taking Initiative and Giving Back

Samuel Martinez, Duncan Polytechnical, Welding Fabrication.

Samuel Martinez is no stranger to hard work. He got his first job at 13 helping with landscaping projects, later moved on to roofing and house remodeling projects, and after getting experience from his CTE classes, went to work part time doing custom welding fabrication.

After learning about the pathways in 9th grade, he was immediately drawn to welding because he loved the process of creating something amazing out of a simple sheet of metal. In addition to learning how to be a welder, Samuel chose to take on another title in his class: "assistant teacher." Samuel took the initiative to provide additional support to his classmates who struggled with learning challenges or were hesitant to weld. This taught him how to adjust to the learning needs of others. Samuel says he loves "seeing the process from them being nervous to being excited to weld."

In the future, Samuel hopes to open his own custom fabrication business that does versatile work in trades like construction, heavy equipment, and custom car fabrication. He has welded gas tanks for race cars, show cars, and classic cars, and helped rebuild the frame of a 1972 Ford. He was proud that the car owners "...trusted me to work on these cars that they care about so much and are going to enter into competitions." He also helped to build tilt up reinforcements for a new building so he gets to see his handiwork any time he drives by the facility.

With his talent and go-getter attitude, Duncan staff are all looking forward to seeing Samuel benefiting the community for years to come.

"[In welding there is] always something more to learn, to get better at, and stuff you don't know. No matter what I'm doing or how many times I've done something there is always something new to learn, something new to discover." – Samuel Martinez

Turning Internships Into Employment

Angel Aguilar, Duncan Polytechnical, Medium/Heavy Truck Technology

2023 graduate Angel Aguilar always had a passion to work on vehicles after being around his father and uncles who all drive heavy duty trucks, and knew he wanted to attend Duncan to join the IDATA Academy. After spending a year in Duncan's Automotive program, he felt like he knew the basics, and decided to switch to the Medium/Heavy Truck pathway.

Early in his senior year he started an internship with Golden State Peterbilt after two of their employees presented to his class. Angel loved the experience there so much that he volunteered his time to work over winter break, and he impressed his Service Manager so much that Peterbilt not only offered him a job after graduation, but they also donated \$1,000 for Angel to compete in the SkillsUSA State competition and offered him a full-ride scholarship to pay for his AA degree in Diesel Technology at Fresno City College while he works for them.

Closing Healthcare Gaps in the Valley

Joslyn Conchas, Sunnyside High, Doctors Academy

Joslyn Conchas was selected for a new program for high school students committed to a medical career and serving the valley's needs. The senior in Sunnyside's Doctors Academy earned one of just 12 spots out of 1,200 applications.

San Joaquin Valley PRIME + BS/MD is an educational pathway partnership between UC Merced, UC San Francisco-Fresno, and UC San Francisco. During the 8-year program, students earn a 4-year degree from UC Merced, complete pre-clinical medical training at a UCSF medical campus, and complete their remaining training at the UCSF campus in Fresno.

Joslyn is a Fresno Unified, College Board Cal Kids, Big Town Hall, and AP Ambassador scholarship recipient and participated in track and field, CSF, and Latino Student Union as a Wildcat.

"I want to become a part of the solution to the multiple gaps in healthcare, and what better way to start than right here in the Central Valley?" – Joslyn Conchas

CTE Staff

The people behind the programs

CTE team members help teachers create relevant student-centered and real-world learning experiences that prepare students with transferable skills for their future careers.

“Giving back to our community” is a strong tenet in the CTE team. Staff participated in a variety of events to share CTE information with our community.

The CTE team offered more than 30 professional learning opportunities for CTE pathway teachers.

Staff presented at local, state, and national conferences to share the amazing opportunities designed to accelerate student learning.

The CTE team consists of:

- 20 office team members
- 10 site-based CTE coordinators
- 11 job developers

Facilities

Building for the future

Measure M

Passed in 2020, Measure M generated local funding for a wide variety of building projects to provide high-quality learning environments. The measure included a focus on classrooms and labs for CTE, such as health sciences, engineering, technology, robotics, and skilled trades.

Proposition 51

The Career Technical Education Facilities Program (CTEFP), or Prop 51, provided funding to construct and modernize CTE facilities on comprehensive high school sites.

CTE staff worked with business and postsecondary partners to identify industry-aligned facility and equipment recommendations for the applications for funding.

This funding benefits both the District and the local business community as more students will be prepared to enter the workforce through an increase and improvement in CTE programs.

Edison High School

CTE Building

When the two-story building is completed, Edison will be able to expand its various CTE pathways, including Biomedicine, Engineering Design and Development, Green Energy and Technology Academy, Computer Science, and Teacher Academy.

The building will also include a robotics workshop, sports medicine lab, state-of-the-art technology labs, and a Collaborative Career Center serving all Edison students.

Building details:

- Architect: Darden Architects
- Contractor: Davis Moreno Construction
- Bid: \$16,270,000
- Funding: Measure M/Prop 51
- Building Size: 31,210 square feet
- Anticipated Opening: 2024/2025 School Year

Duncan Polytechnical High School

MASH Academy Building

The new building gives students and teachers in the MASH Academy a much needed up-to-date facility, designed specifically for their Career Technical Education and Science curriculum. This ensures students will be both college and career ready by providing advanced opportunities and training in the areas of Certified Nursing Assistant, Pharmacy Technician, and Rehabilitation Therapy.

Building details:

- Architect: Darden Architects
- Contractor: Katch Environmental Inc.
- Bid: \$11,116,200
- Funding: Measure M/Prop 51
- Building Size: 15,920 square feet
- Opened: January 2023

Sunnyside High School

Health Sciences Building

The new building designed for Sunnyside's Health Sciences Pathway features classrooms and lab spaces that will accommodate additional students who are interested in participating in the pathway and contain industry-standard equipment to help students be career-ready, competitive in the job market, and better prepared for health-related college study.

Sports Medicine and Athletic Training spaces are designed to provide students with relevant hands-on learning experiences. An industry-aligned student performance lab will feature equipment that students will utilize in college programs and/or professional facilities.

Building details:

- Architect: PBK Architects
- Contractor: Davis Moreno Construction
- Bid: \$7,384,000
- Funding: Measure M/Prop 51
- Building Size: 12,920 square feet
- Anticipated Opening: 2024/2025 School Year

Aviation Academy

Students in Fresno Unified will soon have the opportunity to participate in a one-of-a-kind aviation program being built at Chandler Airport, tentatively projected to open for the 2026-2027 school year.

The program will be a half-day training program for 11th and 12th grade students where they can learn piloting and aviation mechanics, earn early college credit through dual enrollment, train for a variety of aviation certifications, and participate in internships.

An interactive engagement center where students beginning in PK will visit to learn about the aviation industry, attend winter and summer camps, and participate in afterschool programs, will highlight available career opportunities and expand student-centered and real-world learning experiences.

The facility will also house a flight simulator lab, an engine and tool shop, instructional spaces, and hangars for hands-on learning on aircraft that will prepare students to enter an exciting career in aviation, either as a pilot or mechanic. The FAA currently cites an airline pilot shortage as an ongoing issue, with airline and commercial pilot careers projected to grow by 13% over the next ten years. Aircraft and avionics equipment mechanics and technicians and aerospace engineers will also need qualified workers within the next decade.

To raise awareness and generate interest in enrollment, plans to incorporate aviation lessons into elementary grade science, expand drones and transportation experiences at the middle school level, and offer camps and afterschool program opportunities to 9th and 10th grade students are underway.

Highlights:

- Mechanical and pilot certifications
- Early college credit
- Internship opportunities
- Engagement center
- Summer and winter camps
- Afterschool programs

“After learning about a forecasted shortage in all aviation-related labor markets and high-skill, high-wage jobs that are projected over the next 20 years, we set out to build a high-interest, highly engaging program that would provide our students access to industry that has the ability to change family and community economic trajectories.” – Jeremy Ward, CCR Assistant Superintendent

Featured Stories

Electric Heavy Truck

Duncan 1st school in nation to own fully electric heavy truck

Duncan Polytechnical became the first high school in the nation to receive a fully-functional and fully-electric heavy truck as a training-aid for students. Students in the Medium/Heavy Duty Truck Technology Pathway celebrated alongside Superintendent Bob Nelson and many staff members from Affinity Truck Center, the College and Career Readiness Department, and Duncan Poly as the 2022 Mack HEIL F5000 rolled onto campus for the first time.

Students are now able to achieve a superior understanding of EV operation and component configurations, which gives them an advantage when they are at their jobsite or internship, and increases the likelihood of earning certifications for this emerging technology.

Senior Marina Garcia explained what she and many others in her pathway were feeling about the truck. "It's exciting! We're taking a step forward in the community and society."

Custom Trailer

IDATA students partner with non-profit to build trailer

Duncan IDATA students within the Manufacturing, Welding, Automotive, and Construction pathways worked hard over the last year to build a custom Technology Educational Trailer with Reading Heart, a local nonprofit book donation program dedicated to serving children in hospitals and children in areas with limited access to books.

This trailer was designed to reach families in underserved areas and helps expose people to free books/education online. IDATA students used their specific pathway skills to modify an existing trailer, and worked together from the initial design through the creation and installation of cabinetry, lighting, air conditioning, and all of the technology storage and installation - all 100% custom. Students documented their progress along the way in hopes of being able to share the process with others.

Seniors Justin Men and Serafin Jimenez shared, "We have had to change the design and materials a bunch of times, but that's what you do when you're making something new. We didn't give up and it will be even better than we thought it would be."

The Big Fresno Fair

Students excel at the Fair

Sunnyside Agriscience and Technology Pathway

Agriscience Plant Projects

- 22 students from the pathway submitted plant projects into the fair. Each student submitted at least 4-5 plant projects for a total of 89 plant projects at the fair! These plants were all cloned by students and have been under the care of these students since school started.
- 67 of the plant projects got 1st place in their class/division!
- 16 of the plant projects got 2nd place in their class/division!
- 2 of the plant projects got 3rd place in their class/division!

Ag Mechanic Produce/Plant Stand Project

- 11 students in the pathway worked on the Ag Mechanic Produce/Plant Stand Project. These students worked hard to complete their project for the FUSD Idea Fest last school year, and their project won Best of Show at the Fair!

Phoenix Secondary

Phoenix Secondary Academy Ag students achieved a blue ribbon for the first time, with Alexander Flores-Ambriz placing first for his sunflower head. Gilbert Diamond had a second place, Carina Rose Silva took third, and Wyatt Hoskins had an honorable mention, also for sunflower heads.

Magazine Feature

Green Energy Academy featured in educator magazine

Edison's Green Energy Academy was featured in an article on 21st century CTE in the California Teachers Association's "California Educator" magazine, a statewide publication, for encouraging students to pursue careers in energy and the environment.

PG&E and Grid Alternatives donate resources to the academy and offer student internships. Students are able to take a 10-hour OSHA certification course, and can also build electric cars and learn how to install solar panels that can lead to employment right out of high school.

Green Energy is a Lighthouse Academy: A CPA that has demonstrated that they meet or exceed the standards necessary for success and is a model for other CPAs.

To see the full article, visit <http://www.cta.org/archives-educator> and look for the August/September 2022 issue, beginning on page 24.

LEGO 4 All

Teachers bring LEGO to the classroom

In September of 2022, twenty-eight PK, TK, and Kindergarten teachers came together to collaborate as the first-of-its-kind CTE LEGO Champion Cohort. These pioneer teachers received hands-on training from LEGO Education regarding implementation of the new LEGO “STEAM Park” and “People” kits with their early learners. These LEGO Champions met throughout the year to work with the CTE Department to create lessons with the kits that allow students to explore the world of work, and took their learning to become trainer of trainers for other teachers in their regions.

Later in the year, teachers from across the district attended LEGO 4 All training. This training was led by LEGO Champion teachers Kristi Morales-Henkle, Nicole Hassett, Kathy Pineda, Cher Hang, and Debra Stearns. This is a joint effort between CTE and the PK, TK, and Kindergarten departments to infuse STEAM experiences for early learning for all of our students. Our belief is that problem solving, critical thinking skills, and collaboration are the fundamental building blocks of being college and career ready.

This event was a year-long collaboration with the CTE department, LEGO Education, and our LEGO Champions. By the end of the year, nearly every PK, TK, and Kinder teacher in the district received a STEAM Park and People kit as well as access to CTE content lessons created by our Champions and CTE.

Summer Programs

Summer experiences expand student opportunities

Teacher Academy

307 student interns engaged in professional learning about the teaching practice, worked with students in summer school classrooms, and gained classroom experience.

Sports Science Institute

Sports Science Institute students gained hands-on experiences in the areas of athletic training, exercise science, physical education, and sports psychology. In partnership with Fresno State's Kinesiology Department, students learned from graduate students from each of its programs and toured various athletic facilities throughout campus. Additionally, students completed team building exercises and took part in ropes course challenges and ended the week with a meet and greet with Victor E. Bulldog IV.

WorkEd Internships

With WorkEd, students had the opportunity to participate in week-long virtual mini-internships for Cybersecurity as well as Drones and Careers, where they learned about drone careers in different sectors like Ag, Public Services, and Aviation.

Doctors Academy/Junior Doctors Academy

62 student interns participated in the summer of 2023. Students were placed with individual doctors and/or clinicians at UCSF and in volunteer services at CRMC to gain knowledge about different careers in medicine.

They completed 50 hours of observation and mentoring and took classes on various topics such as simulation skills, teen mental health first aid training, Narcan training, and cultural competency reading.

First Responder Camp

Students interested in careers as First Responders spent a week with local partners, including the Fresno Police Department, Fresno Fire Department, and National University. Students learned about the role of leadership, character, and perseverance in the lives of first responders and were able to earn certifications in CPR/First Aid and Stop the Bleed.

Highlights for students included a high-speed chase, watching K-9 officers in action, and running drills of firefighting techniques. Students learned how first responder agencies work together in emergency situations and the importance of communication and teamwork.

Anthem Internships

Anthem offered health and marketing students a 6 week program where they were introduced to different departments, then selected a department based on their interests, and by the end of the internship they completed a related project and presented it to industry partners. For example, marketing students produced a brochure and video to promote Anthem health initiatives. They also earned their HIPAA certification.

Sunnyside FFA

School receives state charter

In Summer 2022, Sunnyside submitted an application for an FFA Charter and was fully approved to operate an official chapter. 12 Sunnyside FFA Officers and Student Ambassadors along with 5 district employees attended the FFA State Leadership Conference to accept the FFA Charter.

FFA is a dynamic youth organization that changes lives and prepares members for leadership, personal growth, and career success through agricultural education. To date, 140 9th grade students are engaged in FFA with the plan to expand one grade level per year over the next 3 years.

Sunnyside's Agriscience and Technology Pathway students were actively engaged in projects during the 2022-23 school year. Students:

- Entered 89 plant projects at the Fresno Fair
- Competed on FFA California Department of Education (CDE) Teams
- Attended the World Ag Expo
- Were actively involved in creating all the plant arrangements and centerpieces for Fresno Unified's annual Excellence in Education Dinner
- Learned stick and Metal Inert Gas (MIG) welding
- Learned how to tool path and cut out complex parts on a commercial Computer Numerical Control (CNC) machine as they supported the Folklorico Dance program at Sunnyside by creating a much needed dance floor for their campus

They truly enhance their community's well-being through their projects and engagement as well as develop their own personal growth and leadership skills.

Land was also recently purchased to expand the Sunnyside agriculture program and allow students an opportunity for hands-on learning, as well as offer year-round engagement opportunities to promote agriculture careers to PK through 12th grade students.

Certifications

Students earn industry-recognized certifications

Students in Fresno Unified CTE programs have the opportunity to earn dozens of different industry-recognized certifications to prepare them for a career after high school, including some which make them eligible for work in their chosen field immediately after graduation!

For example, students at Duncan can become a Certified Nursing Assistant or a Certified Pharmacy Technician to go into nursing or pharmacy work. At DeWolf, Hoover, and Sunnyside, students can take the OSHA 30 certification or MC3 and be ready for a construction career. GRID Alternatives prepares students at Edison and Fresno interested in a solar installation career, while students at McLane can be certified as Production Assistants to go to work in the entertainment field. The ServSafe Food Handlers certification is available across the District for students to enter the culinary field.

Students can earn a wide variety of certifications depending on the CTE program they participate in, including:

- Adobe Photoshop/Premiere Pro
- Automotive Service Excellence
- Bloodborne Pathogens
- Certified Nursing Assistant (CNA)
- CPR/BLS
- EPA 609
- Functional Movement Screen
- Google UX Design
- GRID Alternatives Solar Installation
- HIPAA
- Kincade Production Assistant
- MC3
- National Institute of Metalworking Skills (NIMS)
- OSHA 10/OSHA 30
- S/P2
- ServSafe Food Handler
- Stop the Bleed
- Web Development

There were 17,160 total certifications earned by students.

Stop the Bleed

The CTE Department worked together with Stop the Bleed industry partners to expand training and certification opportunities for Fresno Unified students and staff.

The trainings are designed to better prepare the public to save lives by teaching how to apply pressure dressings, proper wound packing techniques, and tourniquet application to control hemorrhage, improving victim survival rates by empowering trained bystanders to take life-saving action in a variety of situations.

In addition to certifying students, 344 staff members received certification and 37 new instructors were trained. There were 2,042 Stop the Bleed certifications earned by students.

Counselors Attend Training

The Counseling and Guidance Department took the initiative by integrating two lifesaving classes into their buyback training schedule. The counselors had a modified First Aid class that addressed some of the common injuries and emergencies that a person would encounter at a school site or field trip. They also had a session of Stop the Bleed training and certification. Overall, 101 counselors were trained and certified during the event.

Friend of Safe Kids Award

Fresno Unified was recognized by Safe Kids Central California, led by Valley Children's Hospital, for its work to prevent injuries through awareness and training. The District's efforts have included trauma training for high school students, such as Stop the Bleed, which is offered to CTE students across the district.

Internships

Students gain job experience

General Internship courses are offered at Bullard, Fresno, McLane, and Roosevelt High Schools. These 2-period courses are designed to give students an opportunity to participate in paid and unpaid internships during the school day.

Students can earn up to 20 elective credits for successful completion of the course and learn valuable employability skills with a designated teacher, along with industry-specific experience while working with industry professionals at work sites.

A variety of other internship opportunities are available to students not enrolled in an internship course, some taking place throughout the year and some occurring for a short period during the summer months.

Highlights:

- 1,949 total internships
- 1,591 unique students
- 100 internship locations

Duncan Polytechnical

Duncan's Medical Academy of Science and Health (MASH) Medical Careers class participated in jobsite work at Cedarbrook Memory Care, Veteran's Hospital, and Addicott. This was an exciting time for students as they were able to gain real-world experiences and learn hands-on from industry partners.

McLane High School

McLane was one of several high schools piloting a general internship course designed to allow 12th grade students the opportunity to gain off-campus work experiences during the school day. Students learned about workplace skills and interviewed for internship sites.

One of these students was selected for a paid internship through New Vision Aviation, which included the opportunity of learning to fly planes at Chandler Airport and completing a full semester of pilot schooling before graduation.

Bullard High School

Students in Bullard's first General Internship class put together resumes, practiced interview skills, and researched areas of interest before meeting with potential employers and interviewing for their positions, competing with students from Fresno, McLane, and Roosevelt High Schools. All students were placed and reported to their jobsite during the school day several days a week. Roman Vandemark (pictured, left) went to work at Whelan Financial, while Jonathan Lujan-Morales (pictured, right) worked at Valley Animal Center.

DeWolf High School

Students worked with OldCastle employees during both the winter and summer breaks gaining skills in production welding. At the conclusion of the internship, students are given the opportunity to take the company's weld test for potential new employees and employment opportunities.

Roosevelt High School

Roosevelt's Internship students put together a presentation to the school Principal, Mr. Allen. They set up an appointment with him, created a presentation, and got their project approved. They took the necessary steps to bring a food pantry to serve the needs of our students and families.

Sunnyside High School

Sunnyside Ag Internship students fabricated and arranged crate centerpieces for the FUSD retirement celebration. 12th grade students designed and constructed the wooden crates using Sunnyside's new plasma cutter, laser engraver, and CNC machines, while 10th grade students used floral concepts to fill the arrangements.

CTE Data

By the Numbers: CTE Data for the 2022-2023 School Year

- 11,966 students enrolled in CTE courses. Over 40% of all grade 7-12 in-person students are enrolled in one of 79 CTE pathway options.
- 6,026 students participating in a Linked Learning pathway.
- 634 students participating in an IB Career-Related Programme.
- 21-22 graduation rate: 99.4%. Students who complete a CTE pathway graduate at a higher rate than the District average.
- 133 CTE-credentialed teachers. CTE recruits teachers from industry who have years of experience in their fields.
- 200,658 total Work-Based Learning experiences for K-12. Students participate in multiple Work-Based Learning experiences every year.
- 776 active industry partners. Partners provide a variety of valuable experiences to students.

Titan WBL

Starting in the 2022-2023 school year, the CTE Department began using a custom designed Work-Based Learning (WBL) data collection and analysis tool called TitanWBL. Built by a development company founded by a former CTE department manager, this web-based program can show high level data and granular details in real time. TitanWBL can adapt quickly and easily to changes required by the CDE regarding the reporting of WBL data. The software gives Job Developers and Coordinators the ability to quickly answer questions for their administrators, as well as see how their site compares to others to foster friendly competition.

TitanWBL also measures industry partner engagement by tracking participation in WBL experiences and subcommittee and advisory meeting attendance. It also provides a database of industry partners site staff use to find contact information.

Program Highlights

Bullard

Blue Nation Student Store Sells PE Clothes

Business Marketing and Technology students opened the Blue Nation Student Store on back to school night as well as the 9th grade parent nights in order to accommodate sales of PE clothes to incoming freshmen and their parents. Students produced the clothes early in the year and worked with the site office to develop an order pickup system for parents to go along with the online ordering the store developed last year.

DECA Regional Leadership Conference

The Business Marketing and Technology Pathway competed in their first DECA Regional Leadership Conference Competition. 11 students competed in competitions related to marketing essentials and business ethics. One student, senior Roman Van de Mark, emerged as a finalist!

Business Pathway Wins Division at Career Skills Challenge

51 Seniors from the Marketing Sales & Service class went to Fresno City College to compete in the annual Career Skills Challenge competition. There were 30+ schools and 34 possible events to participate in. Business Pathway students entered into 11 events which included; Business Math, Child Development, Desktop Publishing, Elevator Pitch, Graphic Design, Job Seeking Skills, Personal Finance, Photo Editing, Public Speaking, Timed Typing, and Welding.

Of the 11 events entered, Bullard brought home four 1st place medals, one 2nd place medal, and two 3rd place medals, earning the trophy and title for the Yosemite Division, and being only 4 points off from winning the entire competition!

First place winners:

- Nicholas Wise - Graphic Design
- Jeremy Bertz - Public Speaking
- Michael Gonzalez - Business Math
- Gavin Pittman - Personal Finance

CART

CalCPA Student Night Dinner

Students in CART's Business & Finance Lab attended the CalCPA Student Night Dinner. Teachers and students networked with several local accountants. Professionals shared their career journeys, which were encouraging to those beginning their postsecondary journey. Students also participated in an activity during which they asked relevant questions and grew their network.

Crime Scene Investigation

Forensic Lab teachers created crime scenes for student investigation. Each scene was documented by photographing and sketching, and each team used real-world techniques to collect evidence. Students specialized in specific evidence types including ballistics, shoe prints, and tire tracks, and focused on analyzing their specialty. Students analyzed their evidence, came up with a conclusion, and then presented their findings during a mock trial.

Advocacy Billboard

A group of Law and Policy lab students designed a billboard as part of their advocacy campaign. During their advocacy project, students met and learned from Billy Montoya, a graphic artist from Outfront Media. Each student was able to get personalized feedback on their initial design.

Students not only created a billboard, but worked with attorneys from local law firms including McCormick Barstow, Wanger Jones Helsley PC, Moran Law Firm, and the Fresno County District Attorney's Office. Each week, students met with their attorney mentors and shared their passion and vision for a new policy related to an advocacy topic. These topics ranged from homelessness to sexual harassment to human trafficking to LGBTQ+. Over the course of seven weeks, students researched and met with local nonprofits related to their topic, examined current policies, studied advocacy poetry and wrote their own poem, and ultimately designed a website that contained their group's policy proposal. The project culminated in group presentations to panels of community members.

CART Showcase

Student projects focused on designing video games based on novel plots, the neuroscience of illusions, real-world environmental assessments, and many more. Six student teams presented to community judges. The top prize went to a team from the Law and Policy Lab. The team advocated that body positive lessons they designed would combat body shaming among elementary school age students.

Legless Lizard Study

Environmental Lab students worked closely with wildlife biologist, Jason Dean, director of the Meyers Water Bank and Wildlife Project, and California Department of Fish and Wildlife Environmental Scientist, Reagen O'Leary, to monitor the presence of threatened and endangered species on the Akali Sink Conservation Bank near Mendota.

Entrepreneur Expo

The Digital Marketing and Entrepreneurship Lab held its 10th annual Entrepreneur Expo in April. The Expo is an opportunity for fellow students, family, and community members to interact with DME students regarding their businesses. This year, 80 DME students participated in the Expo and sales totaled nearly \$9,000. Food and beverage crowd pleasers this year included homemade tacos, delicious mini-pancakes, and a wide array of refreshing drinks. The huge sweet and savory hits this year were made possible after students earned California Food Handlers Certificates.

This year also included several businesses that focused on beauty, organic products, and home goods, including scrubs, floral arrangements, and even locally sourced jars of honey. Several students offered services such as custom drawings, photography, landscaping, sports conditioning, auto detailing, and even music producing. Students created brand names and logos which corresponded thematically with their websites and social media promotions.

DeWolf

Institute of Technology

DeWolf welcomed the Institute of Technology to learn about their career pathway programs. Students learned about their culinary arts, barbering, and cosmetology programs, and participated in hands-on demonstrations.

Duncan

Pharmacy Technician Jobsite Experience

Students in the Pharmacy Technician pathway received real-world experiences by going out to local pharmacies during their school day. This has been a game changer of an experience for our students as they are learning straight from our pharmaceutical industry partners on the skills they will need in this career.

SkillsUSA Regionals

23 Duncan students competed in the SkillsUSA Regional competition and continued on to the State competition.

Heavy Truck pathway seniors swept the Diesel Equipment competition, with Aidan Camacho placing 1st, Logan Adair placing 2nd, and Angel Aguilar placing 3rd. Irene Torres placed 2nd in Electrical construction wiring, and Nicolas Zamora and Damion Ortiz placed 3rd and 4th, respectively. Adalberto Hernandez-Jacinto, Ivan Guerrero-Hernandez, and Lariah Hernandez placed 4th-6th in Plumbing.

Automotive pathway seniors also swept the Maintenance & Light Repair category, with Oscar Nieto-Jimenez, Alyssa Torres, Rigoberto Espinoza, and Karen Vanthanaphong placing 1st through 4th, respectively. Jose Serna placed 4th in Automotive Service Technology, Cristian Rios-Romero placed 5th in Cabinetmaking, and Destiny Cervantes placed 7th in Nurse Assisting.

Samuel Martinez placed 1st in Advanced Welding. Ernesto Garcia, Haley Toscano, and Manuel Santos placed 2nd as a team for Welding Fabrication, and teammates Angel Escoto, Abraham Huizar, and Alexander Prado placed 3rd in the same competition.

SkillsUSA State Competition

Two recent graduates represented Duncan at the National SkillsUSA Competition in June after earning gold medals at the State competition in April. Construction senior, Nicolas Zamora, earned gold for Electrical Wiring, and Nursing Services senior, Destiny Cervantes, earned gold in Nursing Assisting. Four additional Duncan students placed silver or bronze in Welding, Diesel Technology, and Plumbing.

FCC Future Health Care Professionals Program

This year 8 out of the 20 students accepted into Fresno City College's Future Health Care Professionals Program were from Duncan's Nursing Services pathway. This is an amazing opportunity for Duncan students who become CNAs their senior year to continue their education in the medical field.

Welding Competition

Eight Duncan students competed against 12 CTEC students to assemble a weldment to test their MIG welding skills in vertical, flat, and horizontal positions. Students had to follow a welding schematic and were judged on their accuracy and attention to detail.

Senior Ernesto Garcia took first place overall and senior Bryanna Martinez earned 3rd place in the female welding category. Ernesto Garcia took home a brand new welding helmet as his prize. Seniors Breanna Mason and Lala Verley also represented Duncan at the second competition specifically for female welders.

HOSA State Conference

14 Duncan students competed against 3,600 students during HOSA's State Leadership Conference. Two qualified and competed in HOSA's National Competition in the areas of Certified Nursing Assistant and Veterinary Technician.

Edison

Teacher Academy at King

Edison Teacher Academy students supported K-6 classrooms at King Elementary. Partnering with the neighborhood school allowed a model where students were able to walk over 3 times a week. Students applied their classroom learning by building strong relationships and using instructional strategies.

Tech Expo

Students in the Computer Science, Engineering, Green Energy and Technology, and Multimedia and Digital Photography pathways at Edison presented their end of semester culminating projects during Edison's Annual CTE Tech Expo. They exhibited their knowledge and innovative ideas, presenting and sharing what they have learned.

Sports Medicine Competition

The EHS Sports Medicine Competition Team participated in the Career Skills Challenge at Fresno City College in March. Each student was tested on their CPR, Ankle Taping, and First Aid skills. Out of 13 teams, these phenomenal students placed 2nd overall. They also traveled to Reedley College to participate in another skills challenge called the Tiger Romp. These students attended numerous study sessions in order to prep for these competitions, and hoped to once again place top three at Tiger Romp.

Fresno

CMAC Field Trip

Video Production students toured the CMAC facilities to learn about their service to community as a media outlet. Students toured the Podcast Studio, Recording Studio, and Twitch Studio, and learned about video production and editing for TV shows and streaming videos; sound controls; working the teleprompter; and the control room.

SJVMA Manufacturing Summit

HVAC students attended the SJVMA Manufacturing Summit resource expo to celebrate the Valley's history of innovation in manufacturing while learning more about career opportunities and networking with potential employers to continue to build a well-trained, outstanding workforce. Students engaged in a variety of interviews, were introduced to manufacturing giants throughout the valley, and were treated to lunch and a fantastic keynote from Mark Peters.

Trustee Andy Levine's Bench Competition

Advanced Construction students competed to build FUSD Board Trustee a bench for his home. The winning team was chosen by Trustee Levine and was awarded \$250 for the Construction club fund.

Hoover

Hearst Castle

Mr. Priest's Construction Technology classes went to Hearst Castle in San Simeon to learn about the architecture and design of the castle. It was designed by the first woman architect in California, Julia Morgan. She was also the landscape architect and interior designer. Mr. Hearst was ahead of his time by encouraging women to lean in.

AME Pathway Makes Industry Visits

Mr. Stafford's Arts, Media, and Entertainment pathway Videography class made some local industry visits. Students toured Fresno State Focus Studio, where the college classes tape news shows every week. They saw the where they direct and edit shows as well as their equipment room. Students were able to practice using the large taping camera that costs over \$10,000.

Next, students traveled to the local CBS news station to visit the morning and midday weather host and Hoover alum, Fresno's own Anthony Bailey. He gave students a grand tour of the studio where they saw the makings of the news first hand. Students met Creative Services Director, Matt Demore, as well as Kevin Mahan and Brian Matthews in the Assignment Desk. Finally, students watched the live noon news broadcast with Mederios Babb and Anthony Bailey. The students had a great time and an even better experience.

Fresno State Department of Justice Forensics Lab

The Hoover Public Service Forensic Science classes attended an industry visit to the Department of Justice Crime Lab located on the Fresno State Campus. The students met with criminologist Holly Scott who examines DNA, fingerprints, blood samples, bullet casings, narcotics, and so much more. The students were able to see how evidence collected in the field is validated in a lab environment for use in court of law.

AME and Eco-Tech Visit Yosemite

Students were able to learn about the ecosystems and the different biomes, and how to ID 60 different species of trees, plants, and animals. Multimedia students learned about the work of Ansel Adams and stood in the same location his famous photo was taken. Students also brought back ideas from the trip and were asked to creatively write about their experience at the Park.

McLane

Health Fair Project Showcase

McLane's Medical Education & Research Academy (MERA) students created health fair projects, and had the opportunity to display and present on their research.

Each grade level focused on a different aspect of health. Freshmen created projects centered around environmental health issues such as air pollution, toxic waste, and over-population. Sophomores explored healthy eating habits as they relate to frequently visited restaurants according to a student survey. Juniors and seniors tackled nuanced outlines of chronic diseases including their discovery, proliferation, effects, and treatment. The presentation of projects were then vertically reviewed by peers from different grade levels, providing a valuable opportunity for students to learn from one another and develop their analytical and presentation skills.

As a further opportunity to engage others in the community with their topic outside of class time, many pathway students elected to participate in the McLane Community Resource Fair and Open House. This event was themed around community health, and so it was a natural pairing to showcase students' projects.

Teacher Academy at Wishon

This year McLane's Teacher Academy re-established a partnership with neighboring Wishon Elementary to allow students weekly work opportunities during the school day. Students interested in the career field of education were placed in classrooms at each grade level where they gained experience on how to lead students in learning, developing lesson plans, and supporting the after-school program.

CMAC Live Broadcast

ArtVenture Production Academy students had several opportunities this school year for work-based experiences, often sharing their joy in learning more about equipment, software, editing, video production, journalism, event broadcasting, and leadership. Students received hands-on training in CMAC's mobile broadcasting vehicle both on campus and on-site for several live athletic events.

ArtVenture at the Fresno Fair

The ArtVenture Academy brought more than thirty artists, photographers, videographers, and student journalists to take part in a chalk art competition. They filmed the event, conducted interviews, and sharpened their news package skills by working on filming their B-Roll using the WALLDO method, asking probing questions, and learning both the value and applicable techniques of video journalism.

Student-Led Financial Literacy Training for Staff

Academy of Finance & Entrepreneurship students delivered professional learning on financial literacy to district classified employees. These students developed and delivered engaging and informative presentations, leading adults through materials on a range of related topics, including budgeting, saving, investing, and credit management.

Patiño

Cal Poly SLO Hot House Demo Days

Students toured the Cal Poly San Luis Obispo Center for Innovation and Entrepreneurship Hot House and participated in their annual Demo Days Pitch event. Students were able to tour the Hot House, meet with staff, and meet the accelerator students that were pitching that evening in the annual Demo Days Pitch event. At the event, one of the student business teams set up a booth and had an opportunity to share all about their business with the community.

Central Valley SCORE

Juniors completed a 5 week course called Simple Steps for Starting Your Business through Central Valley SCORE. They received their certificates for completion and will have an opportunity to work with their network of mentors.

CSUF Innovation Summit

Students attended and participated in a pitch competition at the Fresno State Innovation Summit. They listened to guest speakers, watched college student business pitches, and participated in a pitch competition where they won \$150, \$250, and \$500.

Quiq Labs Pitch Competition

11th grade students had the opportunity to pitch to judges at the 1st annual Pitch Competition hosted by Quiq Labs. 5 student business teams pitched their business ideas in an effort to win some startup capital to get their business ideas up and running.

- 1st Place - Apollo Portal won \$2,000
- 2nd Place - Campus Visitour won \$1,500
- 3rd place - Bite Size won \$1,000

Campus Visitour also won the People's Choice award for \$500!

FARMS Advanced Program

Patino FARMS Advanced students had their final field day at Westlands Water District after 2 years in the program. They received their certification of completion, which allows them to apply for scholarships and an internship opportunity for the following year.

Phoenix

Fresno State Ag Tour

Students visited the horticulture unit, sheep unit, and farm market at Fresno State. Students had a great time learning more about what is available to them after high school, and even got to taste test some of the ag products after the tour!

Roosevelt

Live From the Heart

Health Pathway Physiology students had the opportunity to observe and ask questions directly to surgeons, nursing staff, and other medical professionals as they watched an open-heart surgery. The procedure observed was on a 70-year-old male to reconstruct the coronary artery using a graft taken from the upper inner thigh area. Students watched the OR set up and patient prep before performing the surgery.

During the surgery, the chief surgeon, nurse practitioner, scrub nurses, anesthesiologist, cardiac perfusionist, and surgical nurses all spoke about their job descriptions and level of education. Each medical professional talked through exactly what was being done while wearing a microphone. Students had an opportunity to ask questions via the chat feature in Zoom. A moderator read the questions being asked and relayed them to the medical staff. While each person was talking, a slide was shown with education requirements and salary, etc. This surgery was part 2 of a 4-part lesson on the Cardiovascular/Respiratory (Transport) lesson in Physiology.

FBLA Officer Training Day

This event prepared the students to compete in Future Business Leaders of America (FBLA) competitions and they were able to collaborate with other FBLA students from around the district. They participated in Officer, Leadership, competitive events, projects, and Elevator Pitch workshops, and also learned about the requirements of Champion Chapter.

FBLA Leadership Conference

Students participated in the FBLA Central Section Leadership Conference, and the following students placed:

- Valeria Reyes and Olivia Arguello placed 5th in Marketing and advanced to State
- Erick Lemus Garcia placed 9th in Information Technology
- Olivia Arguello placed 10th in Public Speaking
- Sandra Hernandez placed 7th in Sales Presentation

Breakfast Cookoff Contest

Students were grouped and had to come up with a breakfast. Taste, presentation, menu, and creativity, along with cleanliness and following safe guidelines were all part of the judging rubric.

FCC Future Health Care Professionals Program

Five Health Pathway students were accepted into the new Healthcare Professionals Program at Fresno City College. The program provides students an opportunity to receive priority admission into some of the most popular health care programs at FCC, including Dental Hygiene, Radiologic Technology, Registered Nursing, and Respiratory Care Practitioner. Students are: Rosario Perez, Alexander Bustos, Vanessa Sanchez, Ashley Angeles, and Nayeli Covarrubias.

CoFash Students Fashion Show

Fashion Design students put on a fashion show, modeling clothes they created in their Fashion Design class. Students collaborated with BSU students to showcase their designs.

Sunnyside

Photo Students Collaborate with Paul Mitchell

Senior photo students in Tamela Ryatt's class captured photos for their portfolios as part of a collaboration with Paul Mitchell cosmetology school students. The students welcomed Paul Mitchell student stylists into their studio for a photo shoot. Sunnyside students gained experience in fashion photography and Paul Mitchell students gained experience in makeup and styling.

Chaffee Zoo Behind the Scenes

Agriscience and Technology students got an interactive, behind the scenes tour of the Fresno Chaffee Zoo where they learned all about animal behavior and care. Students toured the medical facilities and feeding pens, and networked with zoo keepers and animal care staff.

Doctors Academy Visits CHSU Simulation Center

Students visited California Health Sciences University to experience their Simulation Center, tour their medical school, and have discussions about careers in medicine.

100% of Doctors Academy Grads Headed to College

Approximately 83% have indicated that they plan to pursue a pre-health or STEM-related major in college

CMAC Live Sports Broadcast

Community Media Access Collaborative (CMAC) partnered with Sunnyside Video Production Academy students to broadcast a live feed of the Sunnyside football game against Roosevelt. The feed was featured on Comcast 94, AT&T 99, and live streamed on CMAC's YouTube channel.

Universal and Warner Brothers Studios Tour

Video Production Academy (VPA) students toured two of the most famous studios in Hollywood, including a working sound stage and production set. This capstone trip gives students the opportunity to apply the knowledge they've learned throughout the year.

Kings Canyon

Construction Club Builds Doghouse

Kings Canyon Middle School students in Andrew Brant's Construction Club built a doghouse out of recycled pallets from Fresno Unified. Trust-All Roofing graciously donated all of the roofing materials.

Tenaya

Aviation Club Students Take Flight

Teacher Clifton Mickelson, sponsor of the Tenaya Middle School Aviation Club, took five students to the Young Eagles event at Sierra Sky Park for a personalized flight over the Fresno area. Experimental Aircraft Association pilots introduced students to the basic mechanics of airplanes and flight and after their flight, each received a Young Eagles certificate of flight and a professional logbook to keep track of their flying hours. All five students are now qualified to begin ground school and flight training.

Fresno State K-12 Railroad Model Competition

The Fresno State Transportation Institute held its first railroad model competition on Saturday, April 29th. The competition showed the creativity of the teams in designing their own railroad track models in a way that is fuel and cost efficient and minimum time traveled. The Transportation Institute provided for free all the materials that participating schools would need for the competition.

All teams received various modes of support including professional mentors and coaches, information sessions, instruction manuals, video tutorials, competition guides and more Tenaya students Santos Bejarano, Elias Vasquez, Narek Melkonian, Mateo Rodriguez and Julian Lombrana participated in the competition.

CTE Department Events

Aerospace Valley Air Show

Students from Duncan, Edison, Hoover, and Roosevelt High School attended the Aerospace Valley Air Show at Edwards Air Force Base. This event was the first open house for the base in 13 years. The day consisted of a large STEM Expo with nearly 60 hands-on displays and activities, aircraft static displays, and a large air show headlined by the USAF Thunderbirds Flight Demonstration Team.

BOLD Camp

CTE business and entrepreneurship students spent two nights in Fresno State dorms and learned about the business majors and site resources as students envisioned themselves on a college campus. Partnerships with Fresno State and the Lyles Center for Innovation and Entrepreneurship and grant funding from the Fresno-Madera K16 Collaborative created this amazing opportunity for pathway students.

HERo Women's Leadership Camp

Over 30 students from Fresno Unified and Central Unified participated in the HERo Women's Leadership Camp. This camp was open to all students from 8th-12th grade, enabling them to explore careers in law enforcement. Students learned a ton about careers in public service by attending small group sessions with captains, lieutenants, and the Deputy Police Chief about different areas of the profession. Students even experienced hands-on learning from street violence detectives and took a ride on the emergency vehicle operator course with expert drivers.

Innovation Day

Students in 3rd through 6th grades showcased their engineering and career skills in the District's annual Innovation Day. At Innovation Day, students work together in grade-level school teams to solve a design challenge in front of family and friends. They use the skills they learned all year through career-based challenges every month in the Teaching How Innovation Nurtures Knowledge (THINK) Program. Winners were:

- Third Grade: Storey - Storey Superstars coached by Kelley Bell; students were Shayna Her, Mannatt Gill, Aaron Lara Torres, and Aria Blair
- Fourth Grade: Burroughs - Dynamic Broncos coached by Lorraine Gomez; students were Jayla Ramos, Damian Parra, Isaac Lopez, and Leland Hernandez
- Fifth Grade: Gibson - New Knights on the Block coached by Sara Medina-Baker; students were Alex Ozcariza, Robert Guerrero Jr., Noah Saldana, and Elaine Aquino
- Sixth Grade: Kirk - Roar coached by Michael Harris; students were Carlton Williams, Alina Aguilar, and Valentin Jimenez

First Responder Winter Camp

Over 40 students in grades 8-12 joined the First Responder Career Camp engaging in fast-paced, hands-on exploration of careers as first responders! In partnership with the Fresno Police Department, Fresno Fire Department, and American Ambulance, students experienced careers in law enforcement, firefighting, and emergency medical services.

NAECAD Trainer of Trainers

The CTE department hosted a National Association of eSports Coaches and Directors (NAECAD) Trainer of Trainers program at Sunnyside High School. Multiple districts, colleges, and leading industry partners in the eSports space were in attendance. We are the only district in the nation to house eSports in elementary, middle school, and high school.

CTE Gives Back

Students volunteer in the community

CDAT Pathway Day of Service

As part of a Construction, Design, and Architecture Technology (CDAT) pathway Day of Service, Fresno High students assisted homeowners with their landscaping.

Thanksgiving Food Drive

With the help of student body, staff, and community partners (Foster Farms, Grocery Outlet, Food Maxx) Edison Biomed students were able to give out over 200 bags of food filled with items for a Thanksgiving dinner. Biomed students alone collected over 3,000 cans, and with the money that was donated, they were able to purchase 100 packs of drumsticks to accompany the food bags that were distributed.

Sunnyside Students Host Clean Up Event

Sunnyside CTE programs hosted a Beautify Fresno clean-up day with 171 students picking up over 140 bags of trash and other debris for a total of 1,000 pounds collected from the Sunnyside region!

Law & Social Justice Pathway Teddy Bear Toss

Bullard's Law and Social Justice Pathway, and specifically members of its law club, held a Teddy Bear Toss at a boy's basketball game to collect donations of stuffed animals for first responders in the community. The stuffed animals were given to police, fire, and EMS officials to help comfort and console young children who are experiencing traumatic events.

Internship Students Open Campus Closet

Following the example of a similar project at Bullard, two students at McLane who have been part of an internship experience at the Poverello House were inspired to start the McLane Closet, a place on campus where students are able to get needed clothing and hygiene products free of charge. Their mission is to support students in need by creating a safe space to "shop" either by drop-in or through private appointment. The closet is funded through public Donors Choose projects and stocked primarily through generous donations from the McLane community.

Students Support Local Police

Students from Hoover and Roosevelt Public Service pathways volunteered at the Support Blue Run. Even though it was rainy and cold, students and teachers came out to help with the event organized by the Fresno Police Chaplaincy. Students were stationed at different spots to help pass out water and direct runners.

Elementary Experiences

Starting college and career experiences early

THINK

Teaching How Innovation Nurtures Knowledge

THINK was created by Fresno Unified's CTE Department and the Lyles Center for Innovation and Entrepreneurship at Fresno State. THINK is a series of monthly career-based challenges that ask students to solve problems rooted in the engineering design process. Innovation Day is the culminating event for the series where teams of 3rd through 6th grade students from elementary schools across the district compete in an engineering and innovation challenge. Families and community members are in attendance to cheer on their school! This year, Innovation Day highlighted first responders, and partners from various emergency service organizations shared in the event.

Bricks 4 Kidz

STEM education for 1st and 2nd grade students

Bricks 4 Kidz encourages curiosity and creativity and engages with all of our 1st and 2nd grade classrooms each semester. Students learn and play with LEGO models themed to career opportunities in our district and community. Cooperative team-based discovery and critical thinking skills are reinforced through hands-on activities as the engineering design process is introduced to foster the student's imagination. Teachers select the days and times for the in-class experience to optimize learning connections.

Sixth Grade College Tours

Students get an early look at college options

6th grade students visit one of our local colleges - Fresno City College, Fresno State University, or Reedley College - to learn about the opportunities at each campus. Each postsecondary school offers a unique experience for our students, providing exposure to future educational opportunities. Students tour engaging, state-of-the-art facilities at each campus as they gain an understanding of which careers and programs of study are represented on site. Through guided tours, students better understand campus life, student opportunities, and applying for financial aid and scholarships.

Recognition and Certification

Pathways and programs demonstrate high-quality practices

Linked Learning Silver

Duncan Polytechnical High

- Innovative Design and Applied Technology Academy (IDATA)
- Medical Academy of Science and Health (MASH)

Edison High

- Biomedicine
- Engineering Design and Development

Hoover High

- Arts, Media, and Entertainment
- Eco-Technology
- Public Service

McLane High

- Academy of Finance and Entrepreneurship
- Medical Education and Research Academy (MERA)

Patiño School of Entrepreneurship

- Business, Entrepreneurship, and Technology

Roosevelt High

- Health Academy
- Public Service

Sunnyside High

- Agriscience and Technology
- Health Sciences
- Multimedia and Marketing

NAF Certified Academy

Bullard High

- Biomedicine

Edison High

- Biomedicine
- Computer Science Program
- Engineering Design and Development

Fresno High

- Construction, Design, and Architecture Technology (CDAT)

McLane High

- ArtVenture (Fast Track)

Roosevelt High

- Health Academy

Sunnyside High

- Health Sciences

NAF Model Academy

McLane High

- Academy of Finance and Entrepreneurship

NAF Distinguished Academy

Duncan Polytechnical High

- Medical Academy of Science and Health (MASH)

McLane High

- Medical Education and Research Academy (MERA)

CPA Distinguished and Lighthouse Academy

Edison High

- Green Energy and Technology Academy

LAPSEN Accredited

Bullard High

- Law and Social Justice

Hoover High

- Public Service

Roosevelt High

- Public Service

PLTW Distinguished School

Bullard High

- Biomedicine

Edison High

- Biomedicine

For more information about Certified and Distinguished pathways, visit

<https://ccr.fresnounified.org/2023-certified-pathways>

Staff Spotlights

CTE staff and teachers earn recognition

Every year, the District showcases employees nominated by their colleagues through the Excellence in Education awards. Four CTE staff and teachers were selected as some of the fifty finalists for the 2023 Excellence in Education award:

- Gianni Danisi, Career Education, Teacher on Special Assignment
- Julie Mavrogeorge, Career Education, Coordinator 2
- Chris Fuge, Sequoia Middle School, CTE teacher
- Taylor Vizthum, Computech Middle School, CTE teacher

CTE Staff Teach Others

Throughout the year, CTE staff and teachers have the opportunity to attend conferences and present about programs and practices that have been successful in Fresno Unified, sharing information with other districts nationwide who might want to adapt our ideas for their own purposes.

Linked Learning Conference

CTE Coordinator Jeff DeLong participated in a panel event to talk about work-based learning best practices and making connections to industry. CTE Director Kristen Boroski and TSA Gianni Danisi shared the various ways Fresno Unified CTE publicizes the work being done by schools, staff, students, and industry. They also took this presentation to the Educating for Careers Conference. Kristen and Jeff were joined by CTE Managers Brad Barrett and Michelle Mar, as well as Data Specialist Amber Neulinger and industry partner Chris Durham to present Titan, the new web platform developed for Fresno Unified to track work-based learning experiences.

Future of Education Technology/Texas Computer Education Association/NAECAD Conference

CTE Coordinator Julie Mavrogeorge traveled to Florida, Texas, and Idaho to present and participate in panels talking about creating a comprehensive K-12 esports program with college scholarship opportunities and integrating it with CTE pathways.

ISTE Live Conference

CTE TSA Garrett Main and Coordinator Julie Mavrogeorge traveled to Philadelphia to present on using Minecraft for CTE pathway integration through interactive gameplay.

CAROCP CTE Conference

Duncan IDATA teacher Eric Rubio presented on the evolution of the Medium/Heavy Truck program and the partnerships that facilitated it.

CA STEAM Symposium/CUE Conference

CTE TSAs Leanne Cervantes-Johnson and Gianni Danisi attended two different conferences to present about the development of the district's new LEGO 4 All program, sharing how other districts could implement it for their own students.

ACTE's CareerTech Vision Conference

Teachers and the CTE coordinator from Patino went to Arizona to discuss the structure and connections to industry used by their program, the nation's first wall to wall entrepreneurship pathway school.

Teacher Spotlights

CTE teachers go above and beyond

A Unique Path to Teaching

David Munoz, Roosevelt High School, Public Service Pathway

David Munoz is a Public Service Pathway teacher at Roosevelt High School. He started as a substitute custodian with Fresno Unified and was assigned to the College and Career Readiness Department building, where he was introduced to Director Kristen Boroski and she learned about his experience and work history. He had only worked as a custodian for 28 days when Kristen told him, “You need to be in the classroom.”

David had joined the Army and trained as a medic, then was a volunteer EMT, and later went to earn his degree in HVAC from FCC. While working as a plumber, jobs slowed down and he took the custodial substitute job with Fresno Unified where he would meet the CTE team.

Because of his industry experience as a medic and an EMT, he qualified for an open position in the Public Service pathway at Roosevelt, where he now introduces students to careers in police, fire, military, and emergency medical response.

“David Munoz is the eternal optimist and has a huge heart. His devotion to help is incomparable and he genuinely makes people around him feel valued, and that makes him an extraordinary person to be in our organization.” – CTE Project Manager Krishna Reyes

Claes Nobel Educator of Distinction

Kyle Wiebe, Edison High School, Computer Science Program

Kyle Wiebe, a CTE teacher at Edison High, was selected as a Claes Nobel Educator of Distinction by the National Society of High School Scholars. Kyle teaches math and CTE Computer Science courses. He was nominated by one of his students for outstanding dedication and commitment to excellence in the profession. This honor recognizes exemplary educators whose passion and devotion inspire their students to grow and develop as scholars, leaders, and citizens.

Construction Teacher Shines

Joel Osuna, Fresno High School, Construction Design & Technology Academy

Joel Osuna is a highly respected construction teacher at Fresno High School. With many years of experience in the industry, Joel brings a wealth of knowledge and expertise to his role, inspiring and motivating his students to achieve their full potential. Joel’s teaching style is both engaging and effective. He uses a hands-on approach to teaching, which allows his students to learn by doing. He provides them with real-world experiences, such as working on construction projects in the community and working with Grid Alternatives, which prepares them for success in the workforce. Joel goes above and beyond for his students and is always focused and proud of his students.

Bringing the Farm to the Classroom

Gabriella Her, Baird Middle School, Agriculture Science

As Baird Middle School's Agriculture Science teacher, Gabby Her is passionate about sharing her knowledge with students every day. At age 5, Gabby's family moved from San Diego to Fresno to join relatives in farming, and she grew up spending much of her time on the family farm. Now, her students get to visit the family farm and learn about small-family farming.

The students see and experience vegetables not in most grocery stores, like lemon grass, long beans, and other Asian vegetables. As Baird's ag teacher, she oversees the school garden where students grow cherry tomatoes, spring mixed greens, radishes, and much more. Last year, she taught a culinary arts class using the vegetables grown in the Baird garden.

Gabby started in Fresno Unified as a bilingual instructional aide, spent some time working as a library technician, and then came to Baird to be the attendance clerk and later the office manager. When the ag teacher position opened, Baird administrators thought immediately that Gabby would be the obvious choice. Gabby is constantly thinking of ways to better engage her students, including inviting guest speakers and taking her students to the World Ag Expo in Tulare.

"Mrs. Her is an educator at heart, and i knew this from the moment I met her." – Baird Principal Timona Martin

Partner Awards

Business partners recognized for outstanding support

William F Noli Award, Edgar Blunt, IMAGO

Business partners are honored for outstanding service and dedication to ROP and CTE at the William F. Noli Awards. Fresno Unified nominated Edgar Blunt, the CEO and Co-Founder of IMAGO, and he was one of five selected to receive the prestigious award. IMAGO is an incredible company which shares their knowledge, expertise, and passion for CTE with not only Fresno Unified but all of the 22 school districts that comprise Fresno ROP. Edgar provides meaningful leadership and curriculum that reflects our population's diverse needs, and is an advocate for CTE on a local, state and national level.

Fresno Compact Business Partner Award, Anthem & Fresno Police Department

Each year, the Fresno Compact recognizes ten local businesses that have built exceptional partnerships with schools, contributing time and resources to help students reach their full potential. Fresno Unified nominated Anthem and the Fresno Police Department for this award, which they received in April of 2023.

Anthem has been a steadfast partner with Fresno Unified School District for 20 years. The health care company plays an active role on health and human services subcommittees and district advisory boards, educates students to understand what is required in the health industry, writes support letters for student grant money, and has donated time, talent, and finances in creating environments that attract and cultivate student talent. For the past two years, their commitment has increased to provide a five week paid summer Health Internship experience for Fresno Unified 10th-12th grade Health Pathway students.

The Fresno Police Department (FPD) has partnered with Fresno Unified's CTE Department since 2018 providing industry tours of their facilities, guest speaking, and hosting student immersive experiences including the First Responder Career Camp and the HERo Women's Leadership Camp. The FPD has positively impacted the lives of over 10,000 Fresno Unified students, engaging with children and their families about personal safety, careers in law enforcement, and building positive relationships with the members of our community.

WBL Champion

Bullard wins WBL Champion award

The 2022-2023 Work-Based Learning (WBL) Champion, an award given to the high school that goes above and beyond to offer WBL experiences for students, is Bullard High School.

Bullard students had over 28,000 WBL experiences, including earning 1,139 industry certifications and participating in 161 internship opportunities.

In addition, students in Bullard's CTE pathways took part in over 11,800 coaching and mentorship opportunities throughout the year with Bullard's most active industry partner, TyAnthony Davis.

Bullard continues to offer meaningful WBL experiences for students that prepare them for college and career success upon graduation.

Bullard had a total of 28,402 WBL experiences.

CTE Champions

Career Education Thanks...

The Stop the Bleed "Dream Team":

- Kristina Pasma, Valley Children's Hospital
- Sarah Ellis, CRMC
- Eliana Troncale, CRMC
- Scarlett Carlson, National University

CTE Champions

Schools recognize outstanding partners

- Alexis Ramirez, Fresno Heart & Surgical Hospital
Bullard
- Dr. Tess Reid, Addicott Elementary
Duncan MASH
- Marc Taylor, Golden State Peterbilt
Duncan IDATA
- GRID Alternatives
Edison
- Pamela Leeds, Leeds Photography
Fresno
- Holly Scott, Department of Justice
Hoover
- Nathaniel Schenck, Poverello House
McLane
- Kent Pelisari, The Pi Shop
Patiño
- Jobelle Nunez, Central CA Food Bank
Roosevelt
- Betts Company
Sunnyside

Back Cover

“Let the beauty of what you love be what you do.”

Rumi