

Career Connected

Career Technical Education Program Spotlights

October/November 2022 – Issue No. 2

Electric Heavy Truck

Duncan Polytechnical High School

Duncan became the first high school in the nation to receive a fully-functional and fully-electric heavy truck as a training-aid for students. On October 27th, 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 will now be able to achieve a superior understanding of EV operation and component configurations, which will give them an advantage when they are at their jobsite internships, as well as increase the likelihood earning certifications for this emerging technology. Senior Marina Garcia explained what she and many others in her pathway were feeling about the truck by saying, "It's exciting. We're taking a step forward in the community and society."

[Click to watch a video of the electric truck delivery to Duncan.](#)

Aerospace Valley Air Show

Duncan, Edison, Hoover, and Roosevelt High Schools

Students 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.

Team Building and Acclimating

Hoover High School

After finishing their OSHA Certification, Ms. Corazzini took her Fire Science students to do a little team building. Students had a little fun playing kickball in their turnout gear. Little did they know they were actually trying to get their bodies acclimated to wearing turnouts and boots. The students were wearing an extra 30-35 pounds and only lasted 20-25 minutes in the turnouts. They also were divided into teams with students from the other side of the classroom which taught them how to work with others they normally wouldn't work with.

Beautify Fresno

Sunnyside High School

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 1000lbs collected from our Sunnyside region!

Client Internship Networking Event

Patiño School of Entrepreneurship

Students met with some of the clients they will be working with for their technology internships this year. They had a chance to get to know the clients and their business that they will be building websites and social media campaigns for.

Bullard Interns Go To Work

Bullard High School

Students in Bullard's first General Internship class have begun work at their job placements. Students 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 have been placed and are reporting to their jobsite during the school day several days a week. Roman Vandemark has been working at Whelan Financial, while Jonathan Lujan-Morales has been working at Valley Animal Center. Students and employers both report a great deal of excitement and enjoyment in the program.

Crash Crime Scene at CART Forensics Lab

Center for Advanced Research and Technology (CART)

Forensic Lab teachers Erin Andrade, Jill Rossetti, and Kristine Rubenstein created three crime scenes for student investigation. The three scenes included a car, bike, and victim. Each scene was documented by photographing and sketching and each team used real-world techniques to collect evidence.

Students specialized in specific evidence types and focused on analyzing their specialty. Evidence types included ballistics, shoe prints, tire tracks, and more. Students will analyze their evidence, come up with a conclusion, and then present their findings to the public during a mock trial.

Agriscience and Technology at the Fair

Sunnyside High School

The Agriscience & Technology Pathway had a lot of projects at the Big Fresno Fair!

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!

These wildcat students spent all day on Sept. 30th setting up the Greenhouse building. Jennifer Waite (Fresno Fair Floriculture/Greenhouse Superintendent) was very impressed with our wildcats and has expressed her gratitude to us.

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. These students need a huge congratulations as their project won BEST OF SHOW!!!!

Edison Biomed Food Drive

Edison High School

On November 19th, Edison held a Biomed Thanksgiving Food Drive. With the help of the student body, staff, and community partners (Foster Farms, Grocery Outlet, Food Maxx) they were able to give out over 200 bags of food filled with items for a Thanksgiving dinner. Edison 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. We are super proud of all the hard-work Edison students put into ensuring community members enjoyed Thanksgiving, and look forward to giving even more bags of food out next year!

Off-Campus Experiences Abound

McLane High School

During the last few months McLane General Internship course students have had a multitude of off-campus opportunities for college and career exploration. Among these include tours of CMAC and Valley PBS in downtown Fresno, UC Monterey and the Monterey Bay Aquarium, UCLA and the Museum of Tolerance, as well as Stanford University and the Tech Interactive Museum.

At several of these explorations students were able to take part in behind-the-scenes insights into the operations at these locations. Thank you to our teacher, Mrs. Arciniega, for all of the planning and execution that went into these student experiences!

Patiño Students Visit The Pi Shop and IMAGO

Patiño School of Entrepreneurship

Students had the opportunity to take a tour of The Pi Shop and learn about the projects they will be involved with this year. They then headed over to IMAGO and learned about design thinking.

Breakfast with Blue

Roosevelt High School

Students in the Public Service Pathway were able to interact with professionals in the field at the 4th-annual Breakfast with Blue event. The Public service pathway hosts breakfast and the students have the opportunity to interact with the different branches, asking questions about their profession, schooling, and what it takes to work in their field. Each group also showcases their equipment, vehicles, and other types of supplies needed to be successful in their job.

[Click to watch a video of the Breakfast with Blue event.](#)

CART Alumni Shares Industry Experience

Center for Advanced Research and Technology (CART)

Archie Garcia, 3D artist, spoke about his industry experience with UX, Web, and Game Design Lab students. Mr. Garcia shared his educational journey (CART, Fresno State, and Gnomon) and how it led to his current position as a 3D set designer for JP Connelly Designs.

JP Connelly Designs is an award-winning design service company that has designed sets for The Voice, The Masked Singer, MTV Music Awards, and many more. Mr. Garcia was transparent about the successes and challenges of the IT career pathway. He encouraged the students to be collaborative and start building a network.

ArtVenture at the Fair

McLane High School

Every year, the Big Fresno Fair holds a chalk art competition inviting students to come test their artistic skills in a fun, family-friendly competition. This year, the ArtVenture Academy decided to step up to the challenge, bringing more than 30 artists, photographers, videographers, and student journalists to take part in contest, film the event, conduct interviews, and enjoy a nice fall day out at the Big Fresno Fair.

Through this event, students 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.

Students Tour CMAC

Fresno High School

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

Fresno Chaffee Zoo Behind the Scenes

Sunnyside High School

Sunnyside 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, feeding pens, and networked with zoo keepers and animal care staff.

National University

Duncan Polytechnical High School

On November 2, 2022, the nursing cohort students from National University visited Duncan's 11th grade Medical Career class, showing them height, weight, and blood pressure skills along with medical math conversions. This was a great work based learning opportunity for our Duncan students as they connected with those in the medical field who not only shared best practices on their skills but also connected as to why they chose to go into the medical field as a profession.

CTE Certifications

Did you know that students in Fresno Unified CTE pathways earned over 13,000 industry certifications last year? These industry certifications from industry partners like OSHA, Adobe, ASE, Serve Safe and many others open opportunities for students to participate in internships and job placements that they otherwise wouldn't have access to. We currently have students preparing and earning industry certifications such as: OSHA 10, Adobe Suites, Automotive Service Excellence, Certified Nursing Assistant (CNA), CPR, Stop the Bleed, Basic Life Support, Medical Assistant, Pharmacy Tech, and Food Handler just to name a few!

Edison Teacher Academy at King Elementary

Edison High School

Edison Teacher Academy students began their field experience at King Elementary where they are supporting K-6 classrooms. Partnering with the neighborhood school has allowed a model where students are able to walk over 3 times a week. Students are applying their classroom learning by building strong relationships and using instructional strategies.

Grand Opening of CTE Medical Building

Duncan Polytechnical High School

Duncan Polytechnical High School is excited for the grand opening of their CTE Medical Building on Thursday, January 12th at 4:30p.m. The new building will give students and teachers in the MASH Academy a much needed up-to-date facility, designed specifically for their Career Technical Education and Science classrooms. This is to ensure students will be both college and career ready by providing advanced opportunities in the areas of Certified Nursing Assistant, Pharmacy Technician, and Rehabilitation Therapy.

Students Attend ROP CTE Career Expo

Hoover High School

On October 19, 2022, the Fire Science students attended a Career Expo at Chukchansi Park in downtown Fresno. The students went to a 4-hour event where they participated in hands-on firefighting skills. They were able to use state of the art extrication tools and perform auto extrication techniques on a vehicle, toured an ambulance and spoke to paramedics about the position and roles of paramedics in the field, competed in a physical agility course, and learned a lesson on Cardiopulmonary Resuscitation. The event was intense and really showed the students a taste of the skills and physical ability it takes to be a firefighter. After the morning firefighter event they were presented with all different occupations from all over the central valley. There were construction booths, Fresno City College, Napa Auto parts sponsored an auto diagnostic exhibit, welders were there from FCC and gave expo goers the chance to try the tools, and many other business partners were there showing off the programs available to students.

Computer Science Con (CSCON)

Edison High School

This event included a week of computer science including mock interviews, portfolio presentations, and amazing keynote speakers from Fresno State, Fresno City College, Quiq Labs, Lion and Fox, QuickNode, Generation Esports, RO Production, and many other leaders in the computer science space. Students in Edison's Computer Science CTE pathway engage in a rigorous 4 years of vertically articulated curriculum designed to create the next generation of leaders in programming, coding, robotics, and manufacturing.

Bullard CTE Gets a Glow-Up

Bullard High School

Bullard Career Technical Education classrooms received a visual facelift thanks to industry partner Mega-Prints. Classroom windows received one-way graphics that display key elements of Career Technical Education and clearly indicate which classes house our wonderful CTE programs. In addition, Bullard's Blue Nation Student Store, run by our Business Marketing and Technology Pathway, received some much-needed signage to help attract business.

SJVMA Summit

Duncan, Edison, Fresno, and Sunnyside High Schools

Students and teachers from Fresno High, Sunnyside, Duncan, and Edison participated in the San Joaquin Valley Manufacturing Alliance (SJVMA) Summit to learn more about career opportunities and network with potential employers. 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.

AME Pathway Makes Industry Visits

Hoover High School

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 new 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.

Duncan Seniors take 1st and 3rd Place in 1st Annual CTEC Welding Competition

Duncan Polytechnical High School

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 1st 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. Due to the high interest in the competition, CTEC will be hosting another event on December 12th specifically for female welders and each school will be able to send two competitors. Seniors Breanna Mason and Lala Verley will be representing Duncan at the competition and are anxious to show off their skills!

Girls Empowerment Camp

The Fresno Fire Department put on a mentorship program for girls who are interested in exploring the field of firefighting and fire science lead by women firefighters right here in the central valley.

LEGO 4 All

Over 70 teachers from across the district joined our department at Patiño School of Entrepreneurship for a LEGO 4 All training. This training was led by Master 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.

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. They even experienced hands-on learning from street violence detectives and took a ride on the emergency vehicle operator course with expert drivers. What an amazing partnership to enhance student exposure to potential careers!

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. 4 Districts, multiple colleges, and leading industry partners in the eSports space were in attendance. School site leaders were able to attend breakout sessions on how to set these structures up within their districts. Teachers, students, and parents were able to attend sessions on how to create healthy habits and communication around eSports, understand the massive drive of college eSports and the realistic lifestyle a working eSports athlete leads. And who better than Fresno Unified eSports League (FUeL) to lead it? We are the only district in the nation to house eSports in elementary, middle school, and high school. We frequently lead the work in this space and currently consult with over 25+ districts to bring the dreams of their students to life. A very big thank you to all who helped last weekend! Ruckus Networks, CDW Corporation, Fresno State eSports, Blueshell eSports, NAECAD, ByteSpeed, ASUS, Generation eSports, Drone Legends, SHI International Corp., and Cal State eSports!

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