

CTE Programs Update

Dr. Allan Tyner, Director of College and Career Readiness

Russ Heicke, CTE Administrator, College and Career Readiness

Wednesday, November 12, 2025



Downey Unified
SCHOOL DISTRICT





DOWNEY CTE: MACHINING AND FORMING BIOMED

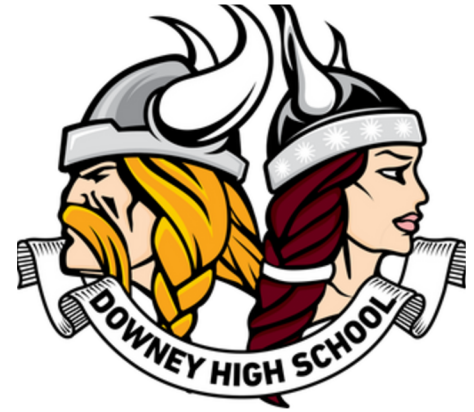


November 12, 2025
Downey High School

Machining & Forming



John Templeton



Industry Cerdentials

- Haas CNC Certification
- NIMS (National Institute for Metalworking Skills) Certification

Articulation

- MTT 100: Machine Tool Introduction (concentrator)
- MTT 52: Set up anOperation of CNC Milling (capstone)

Harbor Freight Fellowships

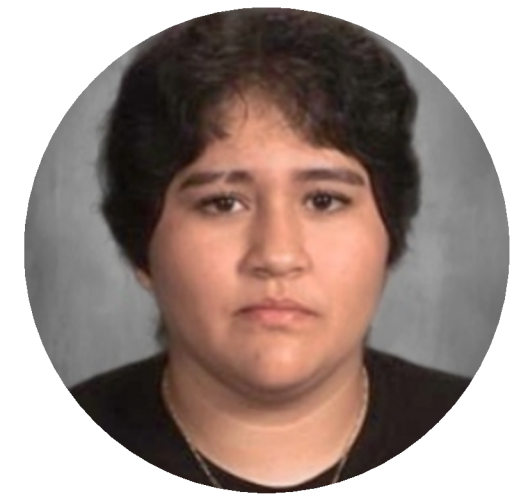
- 20 nominations for 3 fellows



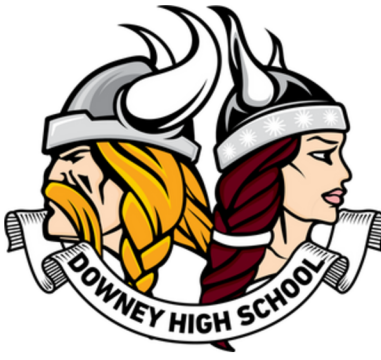
Machining & Forming



Irving Moran



Samantha Manzo Ramos



Irving Moran

- President of Manufacturing Club
- Manufacturing connects with my goals where I can have a career where I get to use my hands
- Intend to continue my education in the manufacturing field

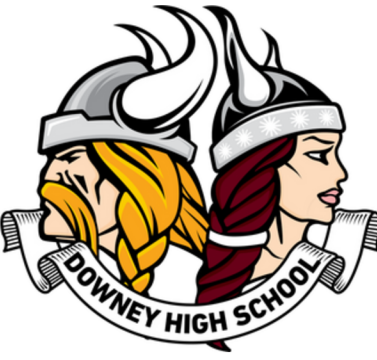
Samantha Ramos

- First year Advanced Manufacturing student
- Interested in how things are built and how small details can make a big difference
- Interested in solving real problems and creating products that people actually use

Biomed 1



Juliet Santa Cruz



- CTE Biomed began with the desire to shift away from PLTW to a more industry relevant curriculum. (OSHA & CPR certification, HOSA membership)
- Making a 4 year pathway into a a 2 year pathway, giving more students access to complete.
- 3 sections this year- 130 students; DHS HOSA Club~ 60+ members
- Volunteer Placement: Multiple students accepted at Kaiser and PIH
- Students have been accepted to UCI's Bridging the Gap STARS Mentorship program.

Biomed 1



Matthew Lozano

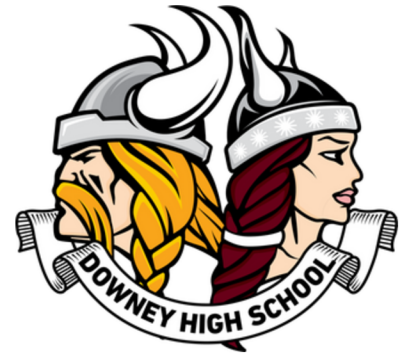
Matthew Lozano:

- This semester I am learning knowledge/skills such as careers in biomedical sciences, bias awareness, and completing patient intakes. I look forward to all the labs we will be doing.
- I really enjoy learning group collaboration and communication skills .
- I intend to become an orthodontist. This pathway supports my knowledge and skills for patient care, along with support for volunteer/internship opportunities.

Biomed Capstone



William Ramirez

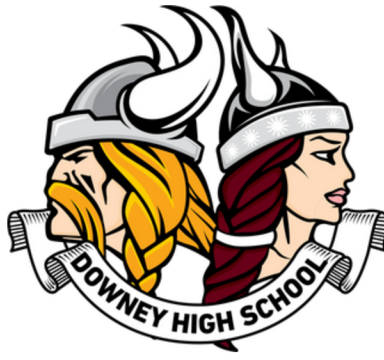


- My passion comes from my personal, professional experience in Nursing, including a RN, BSN from the UCI School of Nursing
- This class focuses on Pathophysiology and Medical Interventions , including diseases, treatments, and skills like CPR
- The pathway places a special emphasis on communication and teamwork in healthcare with patient-provider simulations
- Our Goal is to prepare students academically and professionally for the next level with hands-on practical assessments and projects

Biomed Capstone



Jada Medina



Jada Medina:

- Biomed Capstone is fun and informative with interactive equipment
- Hands-on learning experiences will benefit me in my desired field as a Nurse Practitioner
- This course has solidified my decision and given me the confidence to attend a four year university and beyond.
- Has really given me the confidence to interact with other students.



WARREN CTE: FIRE SCIENCE AUDIO & MUSIC PRODUCTION EDUCATION CAREERS



November 12, 2025
Warren High School - Warren, California

Fire Science



Chief Dan Hurlock

- 2 year pathway
 - First year – Fire Science I: Introduction to the Fire Service
 - 140 Students are currently enrolled!
 - Second year – Fire Science II: Advanced Firefighting Techniques (26-27)
- Emergency Medical Technician (EMT)
 - Basic life-saving medical skills
 - National Registry certification
- Articulation with Rio Hondo College

Fire Science



Chief Dan Hurlock

- Joshua Sosa, 12th Grade
 - Baseball Team
 - Fellowship of Christian Athletes (FCA)
- Kaylen Nunez, 12th Grade
 - Link Crew
 - Interested in EMT/Nursing
- Noah Ceballos, 12th Grade
 - Track Team
 - Interested in being a Firefighter



Audio & Music Production



Jorge Cardenas



- **2 year pathway**
 - **1st Year - Intro to Audio/Music Production: Learning fundamental concepts in Audio and Gear**
 - **92 students enrolled in Year 1**
 - **2nd Year - Audio/Music Production II - Advanced Recording Techniques and Software**
- **Careers in Audio Production in multiple industries such as Music, Film, Television, & Video Games.**
- **Certification in GarageBand directly through Apple & Work Portfolio**
- **Articulation agreement planned with Cerritos College**

Audio & Music Production



Jorge Cardenas



Anthony Acevedo, 11th Grade

- CTE Ambassador
- Musical Virtuoso
- Plays over 10 different instruments
- Future professional Musician



Kelly Lim, 11th Grade

- CTE Ambassador
- Media and Graphic Design Savvy
- Exceptional Organization Skills
- Future Audio Engineer



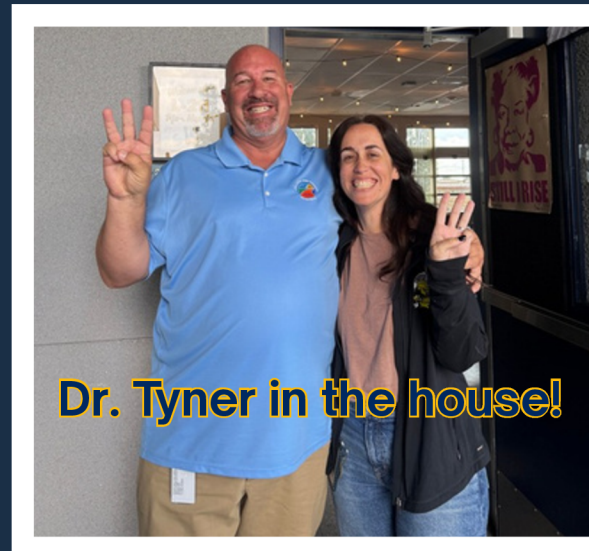
Education Careers



Alyssa Gonzales, Senior

Harmony | Relator | Empathy | Adaptability | Developer

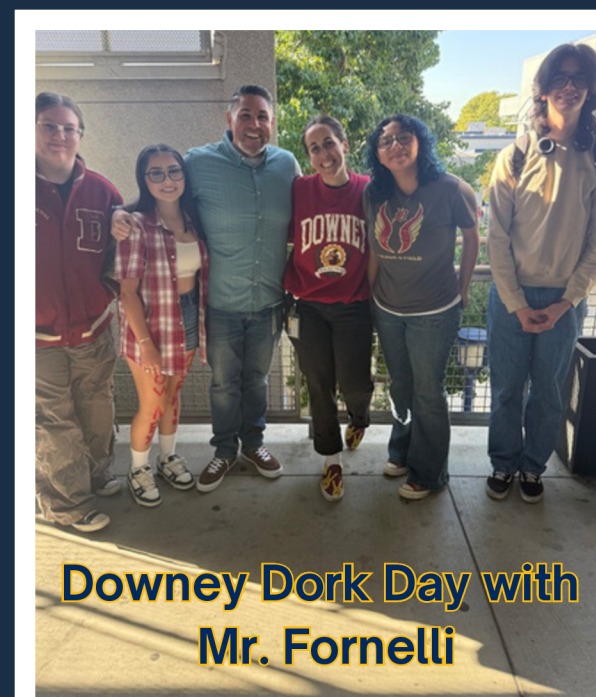
- CTE Ambassador
- Girl Scout (12 years)
- Church Volunteer
- Future Speech Language Pathologist



Devin Vizcarra, Senior

Woo | Empathy | Context | Communication | Adaptability

- CTE Ambassador
- Cross Country Rockstar
- Homecoming King Candidate
- Future History Teacher



Education Careers



Kelsey Hassler



- ALL Careers in Education - Classified & Certificated
- 138 students currently enrolled in Year 1: Careers in Education
 - Year 2: Principles of Education planned for 26-27
- Articulation agreement is currently pending with Cerritos
 - 42% of the Careers in Ed students have taken at least ONE Dual Enrollment class while at Warren!
- Welcomed 12 DUSD Directors & Asst. Directors, both Certificated & Classified, with each guest speaker visiting all four class periods

Thank you!



Downey Unified
SCHOOL DISTRICT

