

## Why Career Technical Education (CTE)?

Career Technical Education  
provides students with  
opportunities to **experience** and  
develop real-world skills within  
our education system that  
prepares them for success in post-  
secondary options.



NAVIANCE

MECHANICAL ENGINEERS  
INTERESTS

Investigative  
Realistic  
Conventional

**Explore** your interests through the  
Interest Inventory survey in Naviance.

## More Info?

[sanjuan.edu/collegecareerready](http://sanjuan.edu/collegecareerready)

## Contact

Department of  
College & Career Readiness  
7322 Sunrise Blvd.  
Citrus Heights, CA 95610  
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# Eagle Polytechnic Institute (EPI) Manufacturing and Prototyping Academy

## College & Career Readiness

San Juan Unified School District

El Camino High School



**San Juan Unified**  
SCHOOL DISTRICT

The San Juan Unified School District Board of Education is committed to equal opportunity for all individuals in district programs and activities. District programs, activities and services shall be free from unlawful discrimination, harassment (including sexual harassment), intimidation, and/or bullying based on actual or perceived characteristics of race or ethnicity, color, ancestry, nationality, national origin, immigration status, ethnic group identification, age, religion, marital or parental status, pregnancy, physical or mental disability, sex, sexual orientation, gender, gender identity, gender expression, genetic information, affiliation with the Boy Scouts of America, or on the basis of a person's association with a person or group with one or more of these actual or perceived characteristics. If you believe you have experienced unlawful discrimination, please contact: Equity Compliance Officer, Fhanysha C. Gaddis, (916) 971-7110, [LegalServices@sanjuan.edu](mailto:LegalServices@sanjuan.edu); Title IX Coordinator, Katie Fabel, (916) 971-7110, [TitleIX@sanjuan.edu](mailto:TitleIX@sanjuan.edu); Section 504 Coordinator, Dominic Covello, (916) 971-7220; ADA/Title II Coordinator, Michelle Fischer, (916) 971-7036



## EPI Academy

The Eagle Polytechnic Institute at El Camino High School integrates manufacturing and prototyping skills through various engineering projects. Students will work heavily with Computer Aided Drafting (CAD) to create various prototypes that will be stress tested to destruction. In the final course of the sequence, students will be challenged to create an efficient, stable and fast Human Powered Vehicle. Students will use industry tools and design programs as well as develop entry-level welding skills. The EPI Academy develops the technical and soft skills needed to pursue a career in the field of engineering, architecture, manufacturing and design.



Pre Engineering I  
(Meets UC/CSU  
"G" Requirement)

1

Pre Engineering II  
(Meets UC/CSU  
"G" Requirement)

2

Pre Engineering III  
(Meets UC/CSU  
"G" Requirement)

3

EPI Academy students move through classes as a cohort, experiencing integrated and cross-disciplinary courses, industry and college and career field trips, professional guest speakers and more.



## Equipment & Training

- AutoCAD
- Welders Mills
- Lathes
- Hand Tools
- Electronics



## Articulation

- Students earn three units of college credit for the Introduction to Engineering I course at American River College.



## Industry Partners

- PC Pals with Intel
- SMUD
- Wood Rodgers
- ARC and Sierra College
- Private Architects



## Career Outlook

- Mechanical Engineers
- Annual median wage is \$95,300
  - Employment growth is at 2% (slower than average)

U.S. Department of Labor, Bureau of Labor Statistics, (May, 2021).