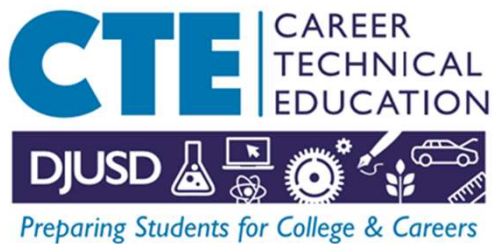


Career Tech Education

Program Recommendation

December 19, 2019



Our Approach

Coalition Building
Visioning
Program Development
Pathways Proposal
Implementation & Considerations



Rationale



- Mission to *Ignite a Love of Learning and Prepare Students for an Evolving World*
- CA Dashboard Accountability - College and Career Readiness
- Available State Funding and Support
- Community Demand
- DJUSD Facilities Master Plan (CTE & STEM)
- Community Resources/Network (UC Davis, Chamber, Industry)
- Student Voice & Student Data



Rationale

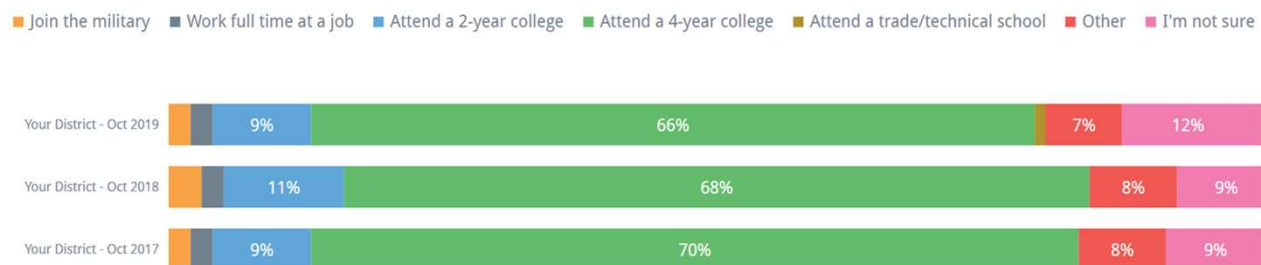
DJUSD Career Readiness

- 67% College/Career Ready; 5% eligible through CTE Pathway Completion

College Completion Rates

- 46% of DJUSD students entering workforce without a college degree

Youthtruth: “After you finish high school what do you expect to do next?”



Student Voice

YouthTruth: “My school has helped me identify steps to have the career I want”



YouthTruth: “My school has helped me figure out which careers match my skills and abilities”

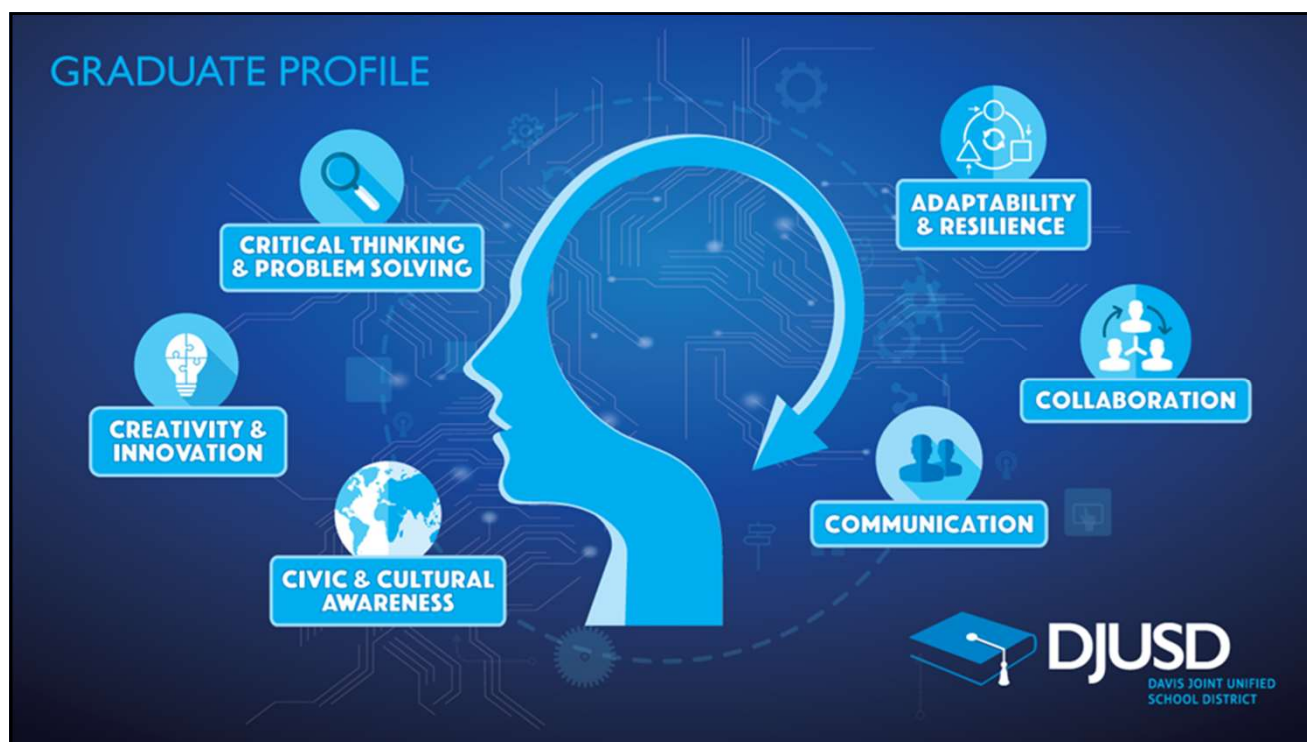


■ Strongly disagree
 ■ Disagree
 ■ Neither agree nor disagree
 ■ Agree
 ■ Strongly agree

2019 Student Focus Groups (109 Sophomores and Seniors)

“What one word would you use to describe school?”

1. Stressful
2. Competitive
3. Busy
4. Tiring
5. Boring



Board Presentations (*Nov. 1 2018; Feb. 21, 2019*)
 Superintendent's CTE Advisory (*April 24, May 15, Sept. 4, Dec. 16*)
 Community Town Hall (*Aug. 7*)
 DSHS Staff, Counselors, Special Ed. Meetings
 DVCA Stakeholder Outreach
 King Program Research
 CTE Staff Credentialing
 Program & Economic Workforce Analysis
 Course Development & Student Enrollment
 Internship Expansion
 CTE Facilities Design
 BOE Recommendation (*Dec. 2019*)

Our Process



CTE Advisory Committee

Charge (February 21, 2019): Advise District staff on a recommendation for future Career Tech Education programming in DJUSD

- Develop a formal rationale for CTE programming
- Ideate Pathway opportunities
- Review data and community input
- Support prioritization of Pathway options



CTE Advisory Committee

- Students, DJUSD
- American Association of University Women
- Yolo County Office of Education
- Davis Chamber of Commerce
- Fouts Homes
- Land Based Learning
- 4H
- Kaiser Health
- Sacramento City College
- Board of Education, DJUSD
- Parents, DJUSD
- Teachers, DJUSD
- Counseling & Admin, DJUSD

- Sunpower
- Syngenta
- Toyota
- Yolo County Health & Human Services
- Adams Grain
- Pacific Livestock
- Davis Farm to School
- National Auto Sport Association
- Bayer Crop Science
- Transportation Services
- Travis Credit Union
- UC Davis (Human Resources, Engineering, Viticulture, Biological/Ag Engineering)



CTE Vision & Purpose

CTE Advisory Committee



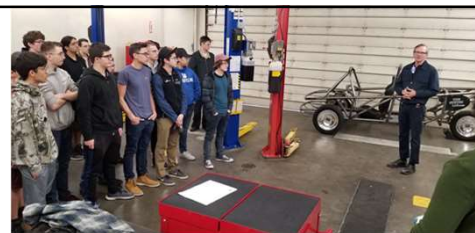
Why: We believe all students, *particularly those who are furthest from opportunity*, should be able to engage in learning that is purposeful, aligned with their passions, and values their contributions.

How: By having hands-on opportunities for students to develop “real life skills,” and develop themselves as authentic problem-solvers.

What: School structures and programs that include community connections, career pathways, and internships.



CTE Program Vision



Guided by DJUSD's Graduate Profile

Pathway Model across Multiple Industry Sectors

Balance of Career and College Readiness Opportunities

Internships & Community Partnerships

Sustainable Program Structures (FTE, Schedule, Cost)



Program Design: Guiding Principles

Future Forward
Community Demand
Achievability



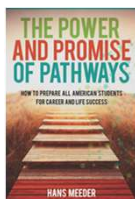
Future Forward: Workforce Analysis

Workforce - Annual Positions Open:

- Healthcare, IT, Education, Construction

Economic Development Priorities:

- Agriculture and Biotechnology
- Healthcare and Life Science
- Advanced Manufacturing



Future Forward: Regional Program Review



Comparative Analysis: Chico, Palo Alto, Rocklin, & Santa Barbara

Findings include: Robust CTE Offerings, emphasis on A-G completion, College & Career Readiness Plan, Career Exploration beginning in Middle Grades

Additional Regional Program Research

Rocklin USD
Napa Valley USD
Elk Grove USD
Washington USD
Fairfield Suisun USD
Vacaville USD

Woodland JUSD
Winters JUSD
Lindsay USD
Sanger USD
Yolo County Office of Education



Community Demand - Town Hall



Community Demand - Student Interest

1	Health Science
2	Business/Finance
3	Arts/Media/Entertainment
4	Engineering/Architecture
5	Public Services



Achievability Factors - Program Ecosystem

- Staffing
- Facilities
- Master Schedules
- Opportunity Costs
- Credentialing
- Community Partnerships
- Student Scheduling Policies
- Resources Requirements
- Student Interest & Enrollment
- Depth vs. Breadth
- Sustainability
- Pathway Feeders
- Bell Schedules
- Graduation Requirements



2020 Vision - Industry Sectors



	Current Offerings	Industry Sectors
Enhance	<ul style="list-style-type: none"> • Agriculture • Automotive • Robotics 	<ul style="list-style-type: none"> • Agriculture and Natural Resources • Transportation • Engineering & Architecture
Restructure	<ul style="list-style-type: none"> • Journalism & Art • Internet Engineering & Programming 	<ul style="list-style-type: none"> • Arts, Media, Entertainment • Information & Communication Technologies
New		<ul style="list-style-type: none"> • Health Science and Medical Technology

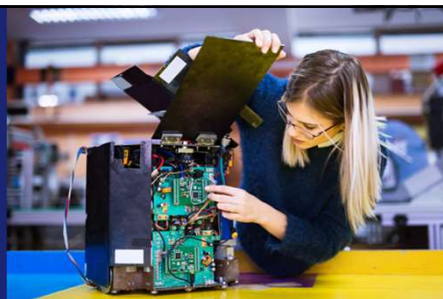



2020 Vision - CTE Pathways Proposal


Industry Sector	DJUSD Pathways
Ag & Natural Resources	<ol style="list-style-type: none"> 1. Animal Science 2. Agricultural Mechanics 3. AgriScience
Transportation	<ol style="list-style-type: none"> 4. System Diagnostics, Service, Repair 5. Electric Vehicle Technology
Engineering & Architecture	<ol style="list-style-type: none"> 6. Engineering Design (Robotics)
Arts, Media, Entertainment	<ol style="list-style-type: none"> 7. Design, Media, & Visual Arts (Photography) 8. Design, Media, & Visual Arts (Film) 9. Design, Media, & Visual Arts (Graphic Design) 10. Design, Media, & Visual Arts (Journalism) 11. Design, Media, & Visual Arts (Digital Arts) DVCA
Information and Communication Technologies	<ol style="list-style-type: none"> 12. Software & Systems Development (Computer Science) DVCA 13. Networking & Cyber Security
Health Sciences & Medical Technology	<ol style="list-style-type: none"> 14. Patient Care



Pathway Descriptions

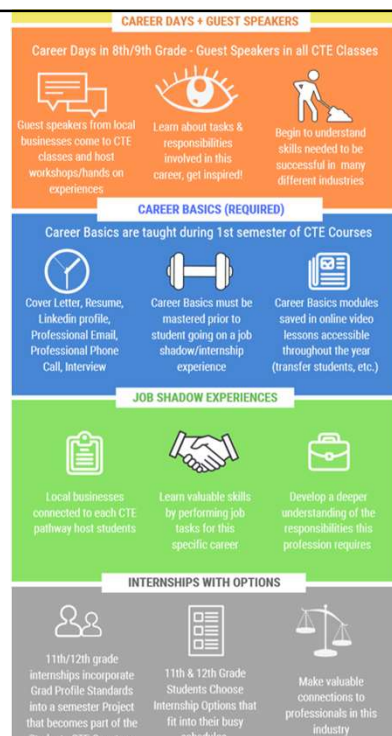
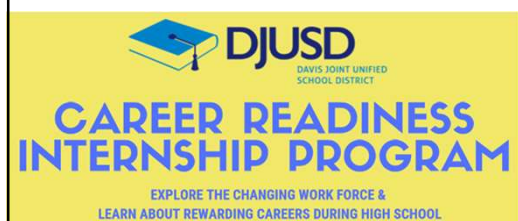


<p>Industry Sector: Information and Communication Technologies</p> <p>Pathway: Software and Systems Development</p> <p>Sean Glantz (CTE credential)</p> <p>Introductory Course: <i>Computer Science Discoveries</i></p> <p>Concentrator: <i>AP Computer Science Principles</i></p> <p>Capstone: <i>Project Invent</i> [Pending BOE Approval]</p>	<p>Out of High School: web design computer and information systems manager, computer user support specialist, entrepreneur</p> <p>Out of Program/Trade/Two year: full stack web development, digital marketing, information security analysis</p> <p>Four year: software engineer, software developer, data analyst, systems developer</p> <p>Industry Certifications: CompTIA IT Fundamentals, PCEP - Certified Entry-Level Python Programmer PCAP - Certified Associate in Python Programming</p>	
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<p>Industry Sector: Health Science and Medical Technology</p> <p>Pathway: Patient Care</p> <p>Helke Farin (CTE Credentialed)</p> <p>Introductory Course: <i>Principles of Biomedical Sciences</i> [Pending BOE Approval]</p> <p>Focus: <i>Human Body Systems</i> [Pending BOE Approval (2021-22)]</p> <p>Capstone: <i>Medical Interventions & Innovation</i> [Pending BOE Approval (2022-23)]</p>	<p>Out of High School: medical transcriptionist, nursing assistant/orderly, home health aide, personal trainer</p> <p>Out of Training Program/Trade/Two year: emergency medical technician, licensed practical nurse, medical assistant, phlebotomist, laboratory technician, radiologic technician, paramedic</p> <p>Four year/Four year plus: nurse practitioner, therapist, pharmacist, physician, optometrist, registered nurse, physician assistant</p>	
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Internship Program Features

1. Career Exploration Events
2. Career Basics Curriculum
3. Job Shadowing & Internships
4. Interest Aligned (Trades, Services)



Implementation & Next Steps

	Spring 2020	Summer 2020	Fall 2020	Winter 2020 - 2021
Course Approvals & Catalogue	●			●
Student Recruitment	●		●	
Master Scheduling	●			
New Pathways Implementation			●	
Professional Development	●			
Elementary/JHS Feeder Planning		●		
Standing DJUSD CTE Advisory	●		●	
Internship Expansion	●			
Structure & Policy Review/Revision				●

Recommendation

Adopt the six industry sectors and related pathway descriptions described in the presentation using the noted achievability factors to guide and sustain the CTE and Career Readiness Internship programs.

