

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?"

■ Join the military
 ■ Work full time at a job
 ■ Attend a 2-year college
 ■ Attend a 4-year college
 ■ Attend a trade/technical school
 ■ Other
 ■ I'm not sure



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



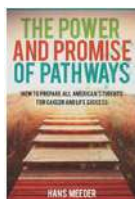
Future Forward: Workforce Analysis

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	Woodland JUSD
Napa Valley USD	Winters JUSD
Elk Grove USD	Lindsay USD
Washington USD	Sanger USD
Fairfield Suisun USD	Yolo County Office of Education
Vacaville USD	

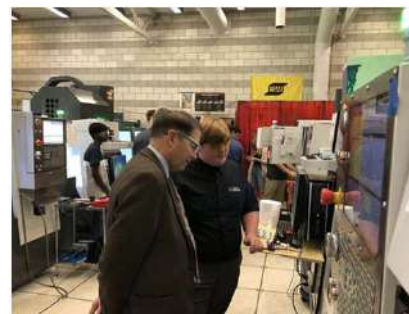


Community Demand - Town Hall



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	1. Animal Science 2. Agricultural Mechanics 3. AgriScience
Transportation	4. System Diagnostics, Service, Repair 5. Electric Vehicle Technology
Engineering & Architecture	6. Engineering Design (Robotics)
Arts, Media, Entertainment	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	12. Software & Systems Development (Computer Science) DVCA 13. Networking & Cyber Security
Health Sciences & Medical Technology	14. Patient Care



Pathway Descriptions



<p>Industry Sector: Information and Communication Technologies Pathway: Software and Systems Development 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 Pathway: Patient Care 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)

DJUSD
DAVIS JOINT UNITED SCHOOL DISTRICT

CAREER READINESS INTERNSHIP PROGRAM

EXPLORE THE CHANGING WORK FORCE & LEARN ABOUT REWARDING CAREERS DURING HIGH SCHOOL.

CAREER DAYS • GUEST SPEAKERS

Career Days in 8th/9th Grade - Guest Speakers in all CTE Classes

- Guest speakers from local businesses come to CTE classes and host workshops/hands on experiences
- Learn about tasks & responsibilities involved in this career, get inspired
- Begin to understand skills needed to be successful in many different industries

CAREER BASICS (REQUIRED)

Career Basics are taught during 1st semester of CTE Courses

- Cover Letter, Resume, LinkedIn profile, Professional Email, Professional Phone Call, Interview
- Career Basics must be mastered prior to student going on a job shadow/internship experience
- Career Basics modules saved in online video lessons accessible throughout the year (transfer students, etc.)

JOB SHADOW EXPERIENCES

- Local businesses connected to each CTE pathway host students
- Learn valuable skills by performing job tasks for their specific career
- Develop a deeper understanding of the responsibilities for profession requires

INTERNSHIPS WITH OPTIONS

- 11th/12th grade internships incorporate Grad Profile Standards into a semester Project that becomes part of the Students CTE Coursework
- 11th & 12th Grade Students Choose Internship Options that fit into their busy schedules
- Make valuable connections to professionals in this industry

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.

CTE | CAREER
TECHNICAL
EDUCATION



Preparing Students for College & Careers

