

# Linked Learning



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### **About CCASN**

- CCASN promotes researched-based practice to improve students' preparation for college and careers through direct support to schools, districts, and states
- Conducts practice-based research and documentation
- CCASN's website has over 20 guides, research reports, a "toolbox" of downloadable materials, a searchable career academy curriculum database, videos, and more.
- Informs local, state and national policy

http://casn.berkeley.edu

### A CASN

# Objectives

- Introduce the key components of the Linked Learning movement
- Describe the instructional practices and systemic approaches to high school education in Linked Learning pathways
- Explore the challenges and opportunities of connecting career pathways from secondary to postsecondary in the health sector



### Linked Learning

# Linked Learning Alliance formed in 2008 to support

- programs of study that connect learning in the classroom with realworld applications outside the classroom,
- integrating rigorous academic instruction with demanding careertechnical curriculum and work-based learning.

Part of a national movement to increase access to high quality career pathways and redesign high school education.



# Short History of Linked Learning Pathways

- 1985 California Partnership Academies join Philadelphia and New York as initial models
- Repeated research findings: Career Academy model improves student motivation, graduation rates, and postsecondary success – over 400 CPAs funded
- 2009 James Irvine Foundation funds Linked Learning Initiative to scale up the model in 9 districts
- 2014 California Career Pathways Trust: \$500,000,000 to build pathways K-14 expands regional approaches
- 2015 CTE Incentive Grants require local matching funds, more each year. K-12 CTE integrated into district priorities and general fund.



# Linked Learning Organizing Principles

- Prepare students for <u>both</u> college and career
- Lead to the full range of postsecondary options
- Connect academics to real-world applications
- Improve equity in student achievement outcomes





## Pathway Components

- A Challenging Academic Component
- A Demanding Technical Component
- A Work-based Learning Component

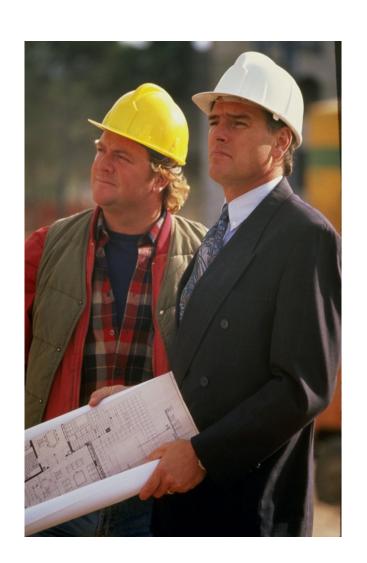
Embedded Support Services





# Linked Learning Pathways...

- Bring real world relevance to a college and career preparatory curriculum.
- Promote project-based teaching and learning.
- Use authentic assessment methods, in which students' products or performances provide evidence of achievement.





### **Linked Learning Programs of Study**

### Meet High Quality CTE Program Criteria

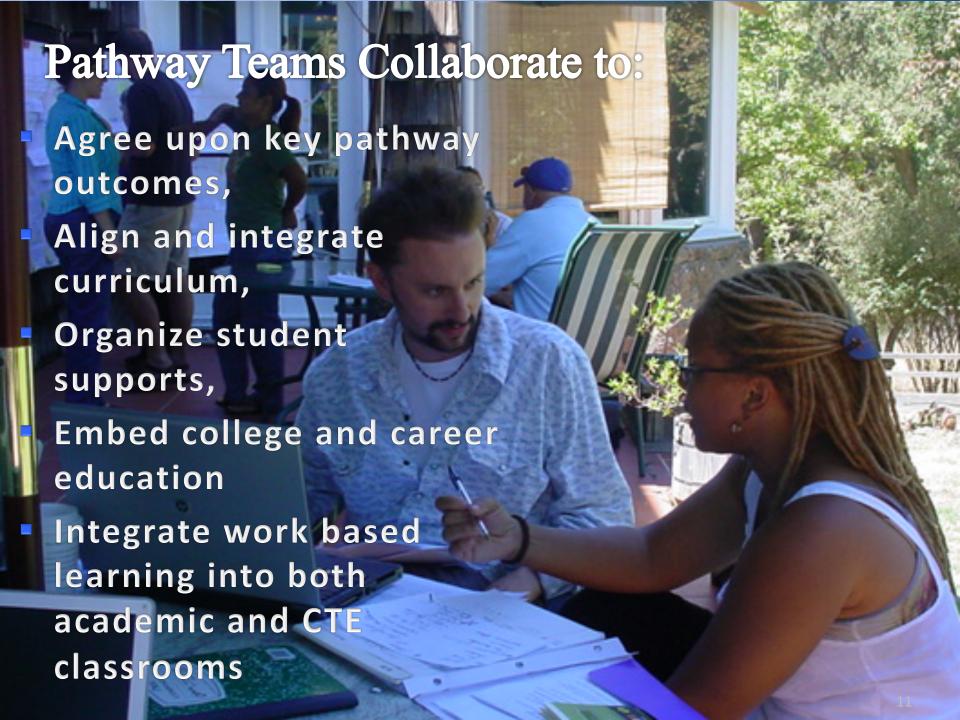
- Industry-specific technical skills & content
- Sequenced, and aligned to California CTE model standards, CCSS & NGSS
- Wherever possible, meeting UC/CSU "a-g" requirements
- Leading to credentials, certificates, postsecondary education, training and employment





### Key Structural Features

- Interdisciplinary Teacher Team, including the CTE and at least two academic teachers at each grade level
- At least ½ of the student's day is in pathway classes, usually starting in grades 9 or 10
- Teacher teams have paid time to collaborate
- Teacher leadership is developed to coordinate the work
- District systems of support connect pathways with industry & postsecondary partners





### **Culminating Assessment System Framework**

Academy Outcomes Mapped by Grade-level

Pathway Outcomes		9	10	11	12	
	Outcome 1	+	++	***	****	
	Outcome 2	++	++	***	++++	
	Outcome 3	+	+	**	+++	

Rubrics for Academy Outcomes Identified/Adapted

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Projects and Work-based Learning Experiences Designed to Meet Outcomes



Changes in Learning and Teaching



Rubric used to measure outcome attainment

dubric used o measure





Collection
Of Student
Evidence
Over Time



WBL

Assess

ment

Self

Reflec

tion

PBL Tasks and Work-Based Learning Scaffold Across Grade-levels







# Work-based Learning

- Includes mentoring, job shadowing, internships, school-based enterprises, service learning, virtual apprenticeship...
- Reinforces both academic and CTE standards.
- Students develop meaningful relationships with adult role models.
- Immerses students in "adult world," leading to maturity, understanding of professional behaviors, high expectations, and career goals



### Work-based Learning Continuum Characteristics & Experiences

#### **Career Awareness**

Learning ABOUT work.

Build awareness of the variety of careers available and the role of post-secondary education; Broaden student options.

#### **Characteristics:**

- Usually groups of students
- •Builds students' awareness of a variety of careers
- Introduces students to business partners from outside the school (in-person or virtual)
- Allows students to begin identifying areas of career interest
- Relates school to the world of work by connecting careers to education.

#### **Experiences include:**

- Workplace tour
- Guest speaker
- Career fair
- Visit parents at work

### **Career Exploration**

Learning ABOUT work.

Explore career options and postsecondary requirements for purpose of motivation and to inform decision-making in high school and post-secondary.

#### Characteristics:

- •Usually individual students or small groups
- Includes direct, interactions (inperson or virtual) with industry partners
- Exposes students to the range of occupations within an industry
- Provides clear connections to course work
- •Connects to students' existing interests and strengths
- Prepares students with the basic skills necessary for higher intensity work-based learning experiences such as internships

#### **Experiences include:**

- Informational interview
- •Job shadow
- Virtual exchange with a partner

### **Career Preparation**

Learning THROUGH work.

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and post-secondary education.

#### Characteristics:

- •Usually individual students, can be small group for projects
- Direct interaction with partners over time, primary direct benefit to student
- Partner is able to assess student learning at site
- Application of skills transferable to a variety of careers
- Activities have consequences and value beyond success in the classroom.
- •Learning for student and benefit to partner are equally valued

#### **Experiences include:**

- •Student-run enterprise with partner involvement
- Virtual enterprise
- •Integrated Projects with partners
- Service Projects
- Internship

### **Career Training**

Learning FOR work.

Train for employment and/or post-secondary education in a specific range of occupations.

#### **Characteristics:**

- •Interaction with partners over extended period of time.
- Depth of interaction with partner increases
- •Primary direct benefit to the employer
- Develop mastery of occupation specific skills.
- Complete certifications or other requirements of a specific range of occupations.

#### **Experiences include:**

- •Internship required for credential or entry to occupation
- Apprenticeship
- Clinical experience
- On-the-job training
- Work experience
- Cooperative Education

# PoS Design Provides Access ACASN to the Full Range of Postsecondary Options

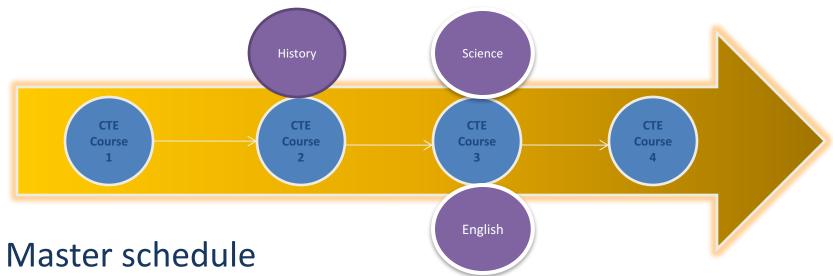


- Changing the perception of CTE as "low-track"
- CTE Leadership:
  - Strengthening CTE rigor –
     meeting a-g requirements
  - Pathways connected to post-secondary education
- Challenge: fitting it all in: "a-g," full CTE sequence,
   ELL and other support classes, early college credit

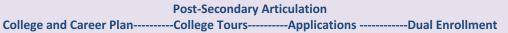


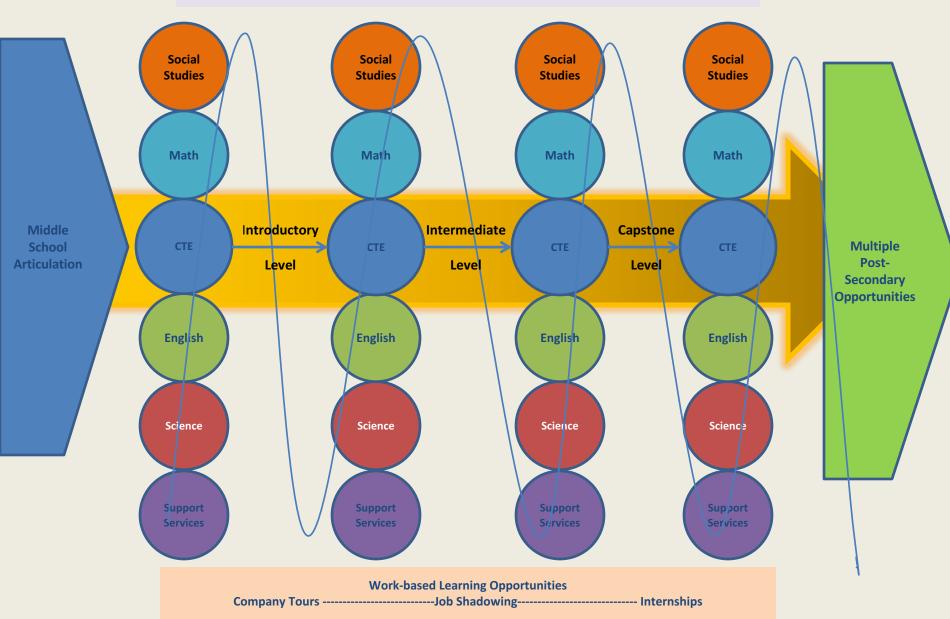
## **CTE Course Sequence with Sporadic Academic Integration**

- Teacher preps
- Teacher involvement



- Program identity, strength
- Impact on students, ability to ensure that all students have access to the wide range of post-secondary options.







# Secondary to Postsecondary Pathways

Health
Pathway
Teacher
Summer
Capstone
Experience



Join the Capital Region Health Pathway Community of Practice\* for an end-of-summer capstone experience for health pathway teams participating in the Summer Externships.

### Days 1 and 2:

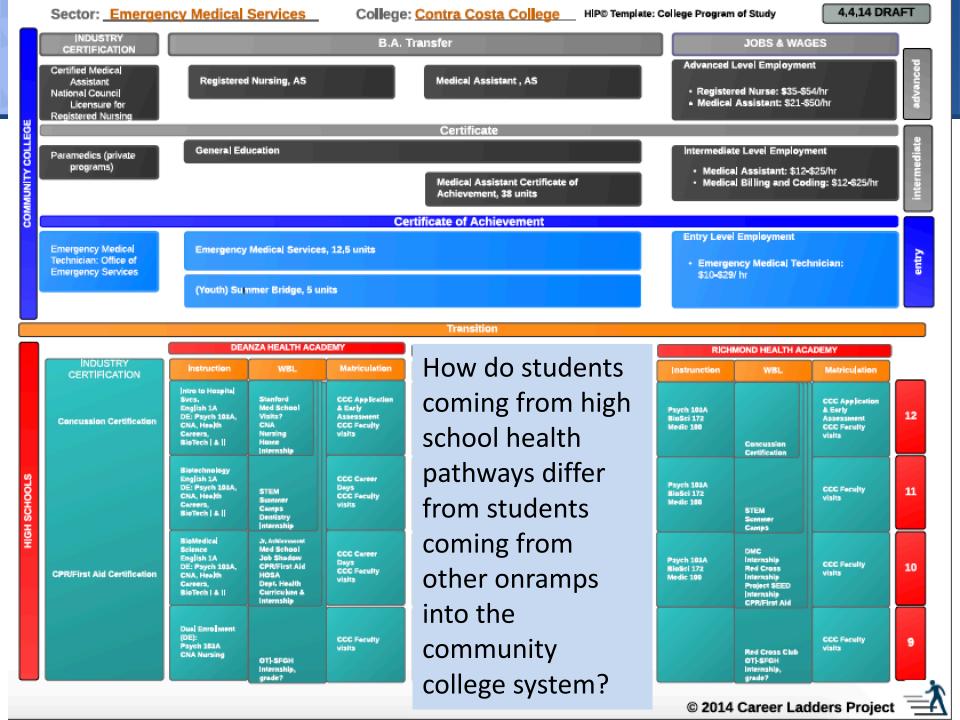
### Tuesday, August 16 and Wednesday, August 17

Integrating Industry Experience into Classroom Practice

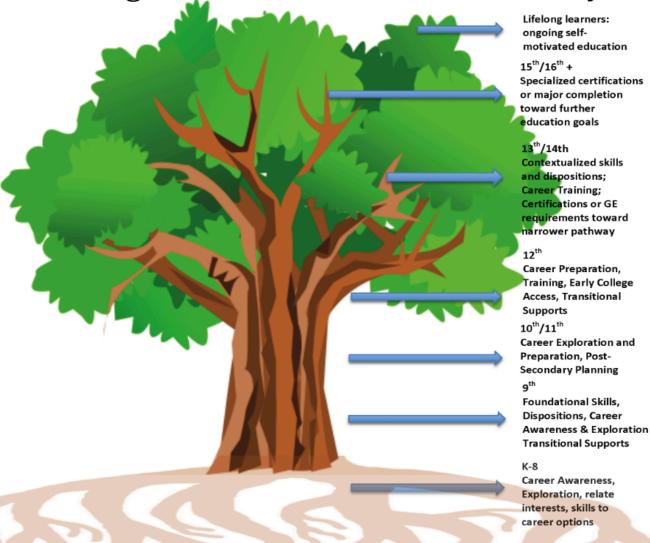
This two-day workshop from ConnectEd will support teams to develop performance tasks, and performance assessments, and to embed those into integrated projects. Teachers are eligible to participate if they have completed the Summer Institute and/or an externship in the Health Pathway field. Location and other details provided upon registration.

### Day 3: Thursday, August 18 Capital Region Health Pathway Sector Convening

- Join local Community College and High School health faculty to get an overview of pathway developments in the state and their implications for our work.
- Breakout session: Teams deliver "Pitch," sharing curriculum projects that incorporate industry
  specific content and skills with local community college health pathway partners and industry
  representatives.



### **College and Career Education in Pathways**



Students move up the broad trunk of the education system before branching out to their various postsecondary pathways. Like the sap moving up the trunk, through the branches to the leaves to interact productively with the wider world and produce oxygen, they may go out to the world of work and circle back to the world of education many times as they develop their careers. Each time they do so, they learn and grow, bringing their knowledge of the real world back to the learning context.



What transition challenges are specific to the health field? How can secondary and postsecondary connect to tackle those challenges?



# Who do we need to engage?





# Strategic Conversations

Approximately ¼ of all California high school students are in pathways that aspire to this approach, according to estimates from the Linked Learning Alliance.

What are the most important conversations to have when bringing pathway faculty together across the secondary – postsecondary divide to strengthen pathway programs of study?

