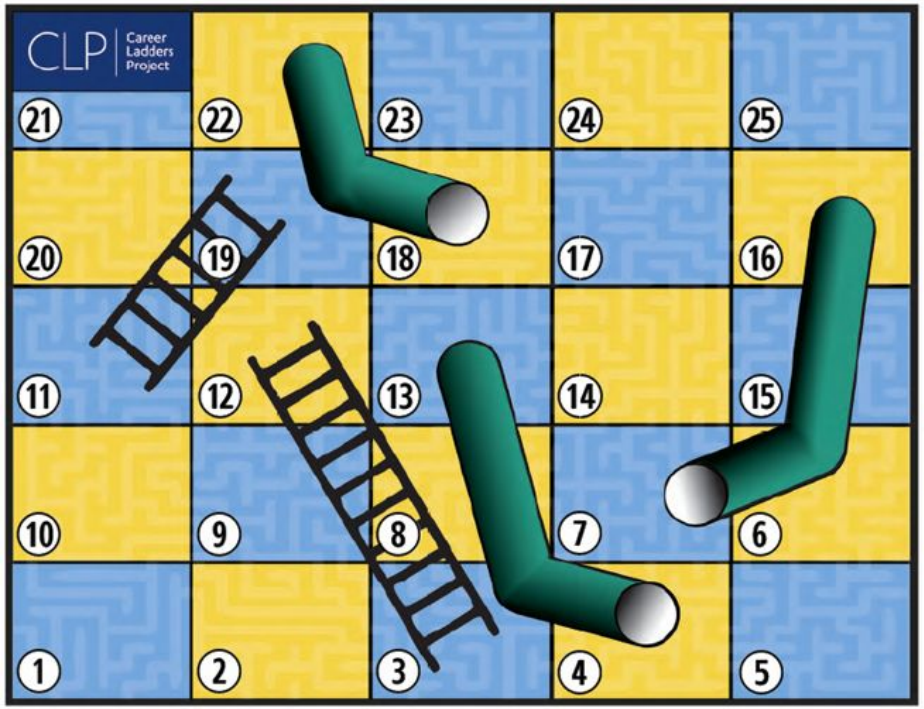
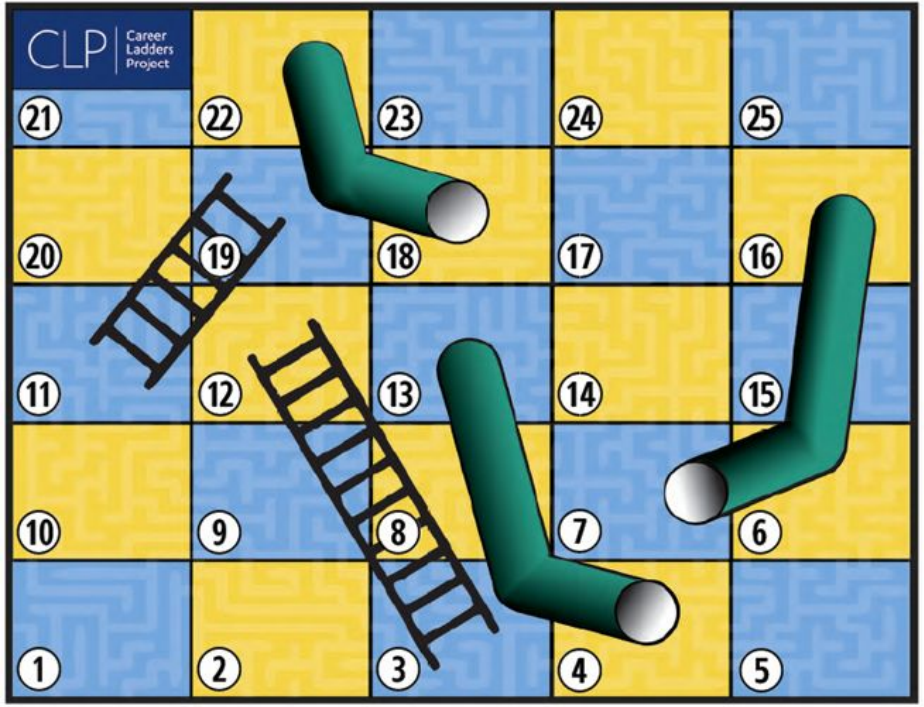
The Dual Enrollment Game

- In groups of 4-5, play the game and see who can achieve college credit!



What did you think of the game?

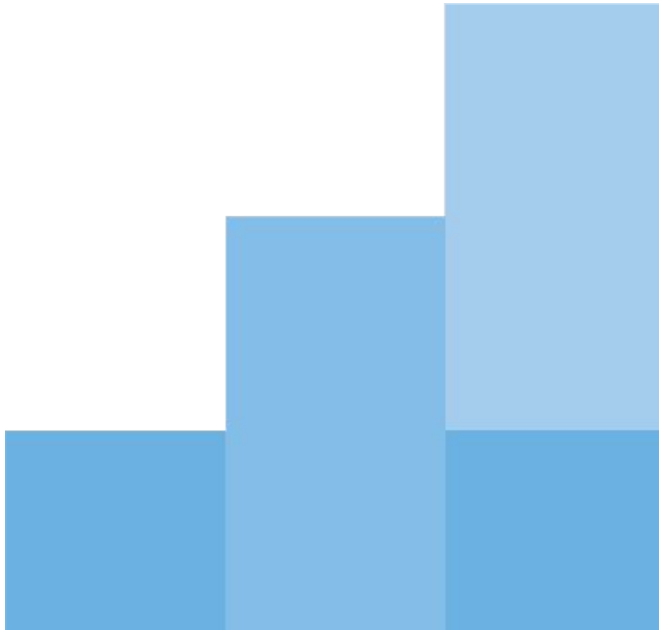
The Dual Enrollment Game

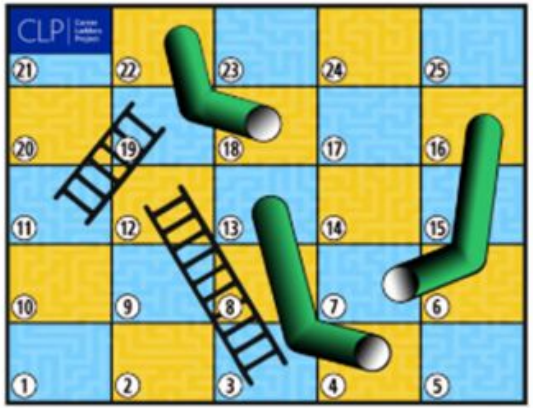


The Dual Enrollment Game

California Association of Black School Educators (CABSE)
October 10th, 2019

Amal Amanda Issa
Senior Program Manager
Career Ladders Project





Download the Game & Dual Enrollment Research

The Dual Enrollment Game

Research shows that high school students who take community college courses through dual enrollment get better grades in high school and are more likely to enter and stay in college — and attain a degree or a certificate.

The object of the game is to earn college credit. Taking the role of students, players make progress thanks to factors on the yellow cards, or they are forced into detours described on blue cards.

At the beginning of each turn, a player rolls the dice and moves the matching number of spaces. Depending where they land, one of three things happens next:

1. If they land on a blank square, or a square that contains the *top* of a ladder or *bottom* of a slide, they pick a card of the same color as the square, read the card, and follow its instructions.
2. If a player lands at the *foot* of a ladder, they get to climb it and advance but do not draw a card. Or...
3. Watch out! — if they land at the *top* of a slide, they tumble to its bottom without drawing a card.

The first to the top earns college credit!

- Game board: color version
- Game board: black and white version
- Blue cards
- Yellow cards
- How to play
- References

Career Ladders Project promotes equity-minded community college redesign.

We collaborate with colleges and their partners to discover, develop, and disseminate effective practices. Our policy work, research, and direct efforts with colleges lead to system change—and enable more students to attain certificates, degrees, transfers, and career advancement.

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BENEFITS OF DUAL ENROLLMENT?

- More likely to graduate high school.
  (Karp et al., 2007; Rodriguez, Hughes, & Belfield, 2012; Cowan & Goldhaber, 2013; Haskell, 2016)

- More likely to enroll in college than their non-participating peers.
  (Karp et al., 2007; Speroni, 2011; Rodriguez, Hughes, & Belfield, 2012; Struhl & Vargas, 2012; Cowan & Goldhaber, 2013; Taylor, 2015)

- More likely to complete college than their non-participating peers.
  (An, 2013; Struhl & Vargas, 2012; Taylor, 2015)

- Can be particularly effective for young men of color, low income and 1st gen students
  (Rodrıguez, Hughes, & Belfield, 2012; Struhl & Vargas, 2012)

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https://www.caschooldashboard.org

Color-Coded Dashboard Ratings

Blue (Highest)

Green

Yellow

Orange

Red (Lowest)

The dashboard ratings factor in the current **status** of schools and districts on different measures (like graduation rates, suspensions, math and English test scores, etc.) and the **changes** on these measures over time (whether scores are going up or down). The school or district color-coded ratings are a combination of **status** and **change** on these measures, **blue** indicating the highest score and **red** indicating the lowest.

Graduation Rate Indicator Five-by-Five

Here is an example of how the status and change in district performance are combined to come up with the color-coded rating for graduation rates.

Graduation Change

Graduation Status: Level	Declined Significantly by more than 5%	Declined by 1% to 5%	Maintained Declined or improved by less than 1%	Increased by 1% to less than 5%	Increased Significantly by 5% or more
Very High 95% or greater	N/A	Blue	Blue	Blue	Blue
High 90% to less than 95%	Orange	Yellow	Green	Green	Blue
Median 85% to less than 90%	Orange	Orange	Yellow	Green	Green
Low 67% to less than 85%	Red	Orange	Orange	Yellow	Yellow
Very Low Less than 67%	Red	Red	Red	Red	Red

The Dashboard and Alternative Schools

- Currently, alternative schools have empty pages on the California School Dashboard
- The California Dept. of Ed is currently developing alternative school-specific indicators.
    - One-Year Graduation Rate
    - College/Career Indicator
    - Local Indicators
- The State Board of Ed. has already adopted the one-year grad rate

College & Career Indicator

Metrics for All High Schools		Metrics for Alternative Schools	
• SBAC Assessments • A-G completion • State Seal of Biliteracy • Articulated CTE Courses • Stand Alone Courses (Emergency Medical Technician, Certified Nursing Assistant)	• Leadership/Military Science • Passage Military Entrance Exam • Work-based Learning and Internships • Industry Certification • Golden State Seal Merit Diploma • AP and IB exams • **Dual enrollment**	• Exploratory Work Experience Education (EWEE) • General Work Experience Education (GWEE) • *CTE Work* Experience Education (CTWEE) • Workability Program Courses	• Workability Work-Based Learning • Workforce Readiness Certificate • Completion of a Pre-Apprenticeship Program • State or Federal Job Program

DE Resources

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DUAL ENROLLMENT TOOLKIT 1.0

CLP Career Ladders Project

Bay Region Dual Enrollment
Administrator Guidebook

Bay Region

Dual Enrollment

Administrator Guidebook

OVERVIEW If you already know a bit about Dual Enrollment (Dual E), and even if you have a Dual E program in place, this guidebook is for you! The purpose of this guidebook is to help administrators and educators implement and improve their Dual E programs by documenting emerging and promising practices in challenging Dual E areas, including student safety net, professional development, data and administrative procedures.

Before reading this document, be sure that you have first reviewed the California statewide Dual Enrollment Toolkit, developed by Career Ladders Project, which provides important legal guidance on Dual Enrollment.

Bay Region Dual Enrollment Community of Practice

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Dual Enrollment Toolkit and Resources

Career Pathways Mapping Toolkit

www.careerladdersproject.org

TOOLS FOR THE FIELD

Teacher Preparation Pipeline (TPP)
STEM/CTE Regional Joint Venture (RJV)

BACCC
BAY AREA
COMMUNITY COLLEGE CONSORTIUM

https://sites.google.com/a/baccc.net/baccc/TPP-RJV

California Community Colleges | Vision Resource Center

https://visionresourcecenter.cccco.edu/

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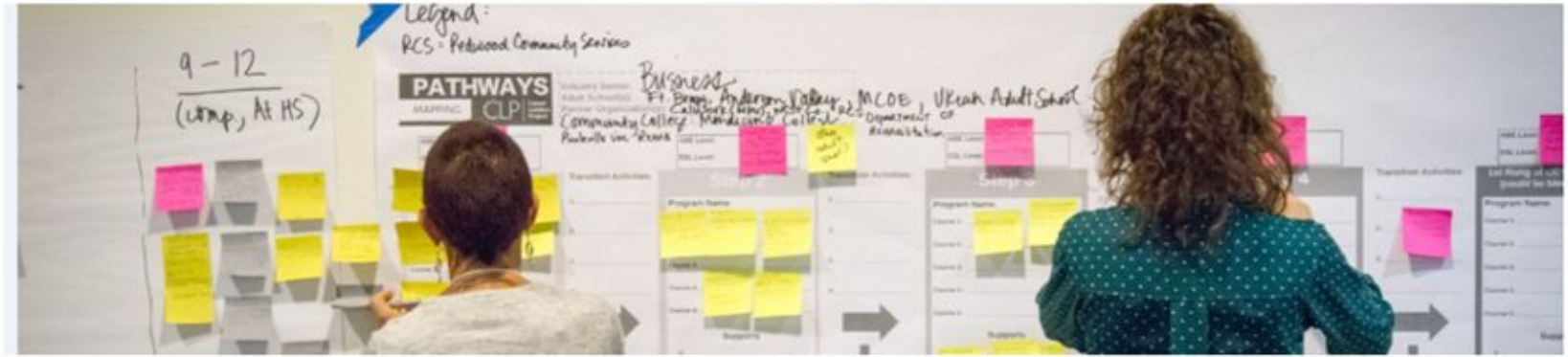
Career Pathway Mapping Toolkit

CLP | Career Ladders Project

Home | Our Work | Tools for the Field | News & Research | About Us | STAY UPDATED WITH CLP



Career Pathways Mapping Toolkit

MAPPING CLP Career Ladders Project

Pathway(s): Advanced Manufacturing and Welding
Community College(s): College of the Canyons

LEGEND
- Early College Credit Opportunities
- *Aspirational

COLLEGE OF THE CANYONS

INDUSTRY CERTIFICATIONS

ADVANCED LEVEL
-NIMS Level 2

MID LEVEL
-NIMS
-American Welding Solciety AWS EG 3.0

ENTRY LEVEL
-NIMS
-FMA - Precision Sheet Metal Operator (PSMO)
-PMP(project management)

WORK BASED LEARNING

ADVANCED LEVEL

MID LEVEL

ENTRY LEVEL

BA/BS Degree/Transfer

- **B.S. Mechanical Engineering**
- **B.S. Electrical Engineering**
- **B.S. Industrial Engineering**

AA./A.S Degree/Transfer

AS - Welding Technology - Pipe Welding (30 units)
WELD-101A Introduction to Shielded Metal Arc Welding (2.5 units)
WELD-101B Intermediate Shielded Metal Arc Welding (2.5 units)
WELD-101C Advanced Shielded Metal Arc Welding (2.5 units)
WELD-104 Introduction to Gas Tungsten Arc Welding (2 units)
WELD-105 Advanced Gas Tungsten Arc Welding (2 units)
WELD-165 Pipe Welding Fundamentals (3 units)
CWE-188WELD Cooperative Work Experience Education (1 - 4 units)

AS - Welding Technology - Metal Fabricator/Welder (30 units)
WELD-092 Introduction to Metal Fabrication (2 units)
WELD-093 Intermediate Metal Fabrication (2 units)
WELD-094 Advanced Metal Fabrication (2 units)
WELD-101A Introduction to Shielded Metal Arc Welding (2.5 units)
WELD-104 Introduction to Gas Tungsten Arc Welding (2 units)
WELD-105 Advanced Gas Tungsten Arc Welding (2 units)
CWE-188WELD Cooperative Work Experience Education (1 - 4 units)

AS - Welding Technology - Industrial Welder (30 units)
WELD-120 Industrial Welding I (5 unit)
WELD-122 Industrial Welding II (5 units)
WELD-124 Industrial Welding III (5 units)
WELD-114A Introduction to Robotic Welding Automation (2.5 units)
WELD-114B Intermediate Robotic Welding Automation (2.5 units)
WELD-114C Advanced Robotic Welding Automation (2.5 units)

AS - Welding Technology - Laddered Specialization (30 units)
WELD-101A Introduction to Shielded Metal Arc Welding (2.5 units)
WELD-101B Intermediate Shielded Metal Arc Welding (2.5 units)
WELD-101C Advanced Shielded Metal Arc Welding (2.5 units)
WELD-114A Introduction to Robotic Welding Automation (2.5 units)
WELD-114B Intermediate Robotic Welding Automation (2.5 units)
WELD-114C Advanced Robotic Welding Automation (2.5 units)
Required Electives:
WELD-080 Non-Destructive Testing (3 units)
WELD-130 Welding Metallurgy (3 units)
WELD-132 Blueprint Reading for Welders and Fabricators (3 units)
MFGT-090 Measurements and Computations (3 units)
ENGL-094 Introduction to Technical Reading and Writing (3 units)
OR
ENGL-204 Technical Report Writing (3 units)
Recommended Electives:
WELD-096 Welding Certification and License Preparation (3 units)

General Education

Mid Level Certificate

Certificate of Specialization - Manufacturing Technology - Automated Machining (12 units)
MFGT-121 CNC 1: Operation and Manual Programming (3 units)
MFGT-122 CNC 2: Concepts and Programming (3 units)
MFGT-131 CAD/CAM I (3 units)
MFGT-132 CAD/CAM II (3 units)

Community and Contract Education Opportunities:
Project Management
Softworks
Welding

Certificate of Specialization - Welding Technology - Robotic Welding Automation (16.5 units)
WELD-114A Introduction to Robotic Welding Automation (2.5 units)
WELD-114B Intermediate Robotic Welding Automation (2.5 units)
WELD-114C Advanced Robotic Welding Automation (2.5 units)
Required Electives:
WELD-080 Non-Destructive Testing (3 units)
WELD-130 Welding Metallurgy (3 units)
WELD-132 Blueprint Reading for Welders and Fabricators (3 units)

Entry Level Certificate

Certificate of Speciliazation- Manufacturing Technology - CATIA (6 units)
MFGT 141 CATIA I (3 units)
MFGT 142 CATIA II (3 units)

Certificate of Specialization - Manufacturing Technology - CAD/CAM (6 units)
MFGT 131 CAD/CAM I (3 units)
MFGT 132 CAD/CAM II (3 units)

Certificate of Specialization - Manufacturing Technology - Machining/CNC (6 units)
MFGT 121-CNC 1 Operation/Manual Programming (3 units)
MFGT 122-CNC 2 Concepts and Programming (3 units)

Community and Contract Education Opportunities: Center for Applied Competitive Technologies (CACT) located on-site at Aerospace Dynamics International (ADI)

Certificate of Speciliazation- Mechanical Drafting (9 units)
ENGR 110 - Intro to AutoCAD (3 units)
ENGR 114 - Solids Modeling for Mechanical Drafting (3 units)

PLUS 3 Units from the following:
MFGT 121 - CNC 1: Operation/Manual Programming (3 units)
MFGT 131 - CAD/CAM 1 (3 units)

Community and Contract Education Opportunities:
Project Management
Softworks
Welding

Certificate of Specialization - Welding Technology - Shielded Metal Arc Welding (16.5 units)
WELD-101A Introduction to Shielded Metal Arc Welding (2.5 units)
WELD-101B Intermediate Shielded Metal Arc Welding (2.5 units)
WELD-101C Advanced Shielded Metal Arc Welding (2.5 units)
Required Electives:
WELD-080 Non-Destructive Testing (3 units)
WELD-130 Welding Metallurgy (3 units)
WELD-132 Blueprint Reading for Welders and Fabricators (3 units)

Bridge: Nuts and Bolts and Thingamajigs

STUDENT SUPPORTS

ADVANCED LEVEL

MID LEVEL
-Career Center & Industry *
-Application Interview Prep*
- Counselor and Academic Advisors specialized to Pathway
-Student Success Teams

ENTRY LEVEL
-Integrate Support Services*
-Tutoring TLC*
-Friendly Face*
-Student Success Team*
  -Career Coach
  -Counselor
  -Student

JOBS AND WAGES

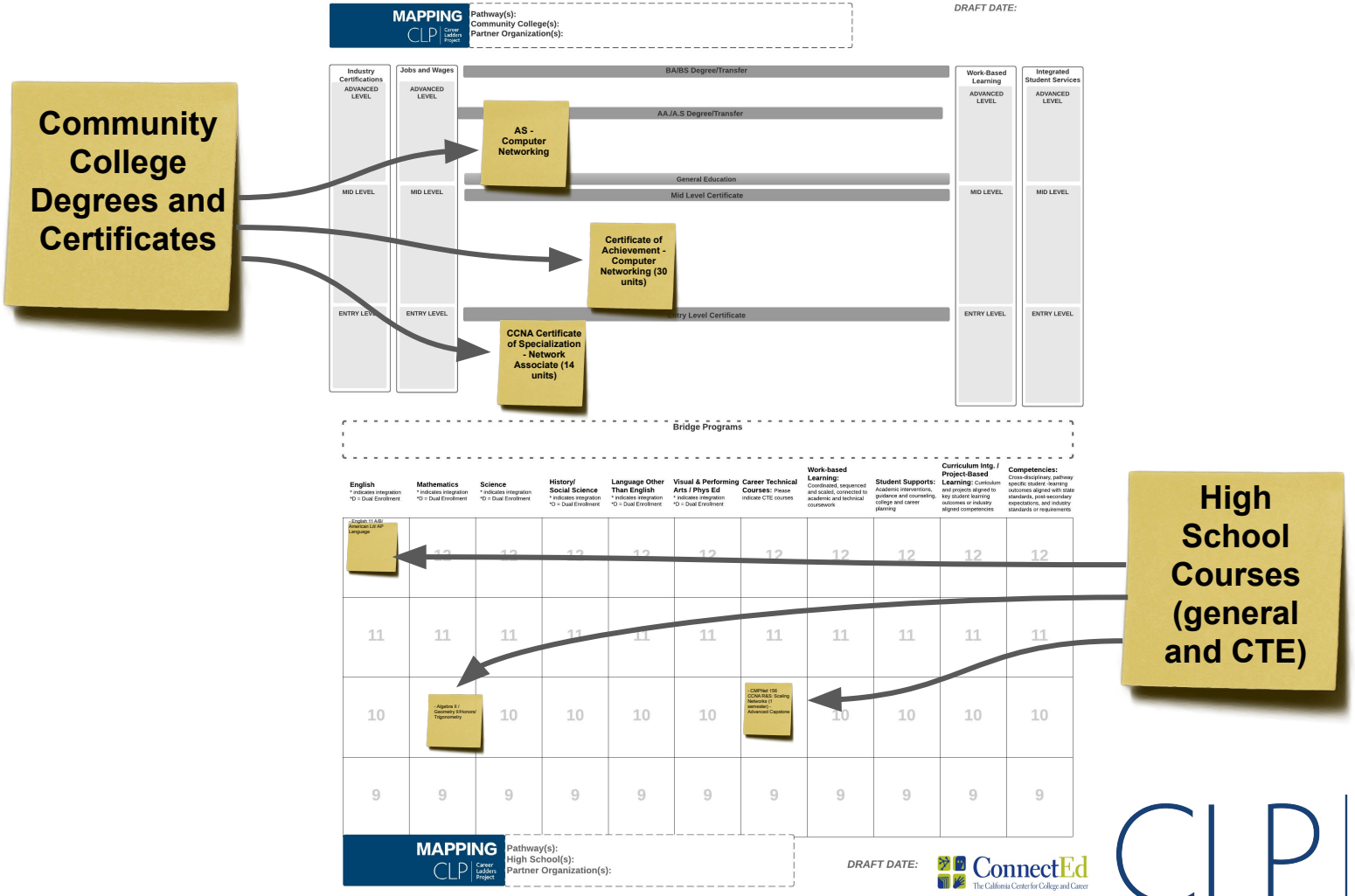
ADVANCED LEVEL
-Welding Inspector, $14.84-25.13/hr
-Welding Technician/Fitter, $14.84-25.13/hr
-Pipe Fitter, $18.92-35.73/hr
-Metal Fabricator, $14.03-24.24/hr

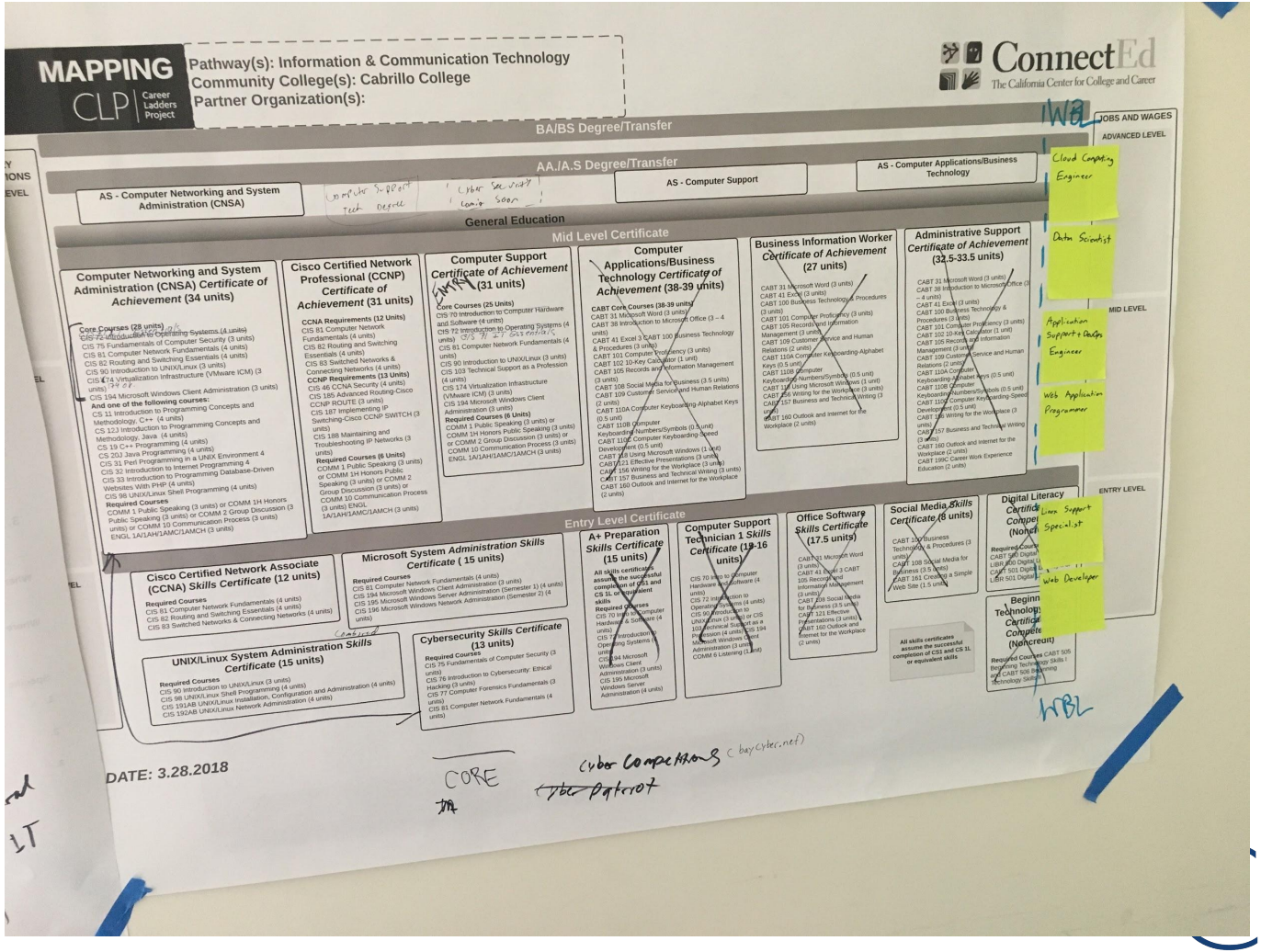
MID LEVEL
-Welder, $14.84-25.13/hr
-Mechanical Drafter, $20.97-35.28/hr

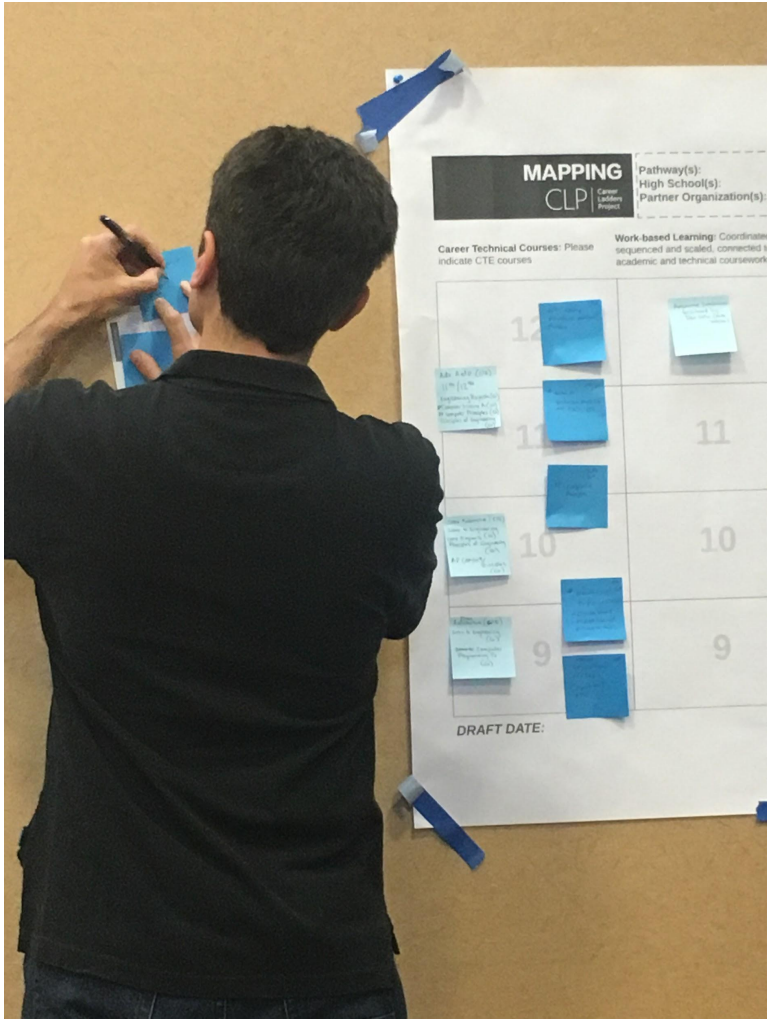
automotive, aerospace, and manufacturing entry level designer or drafter

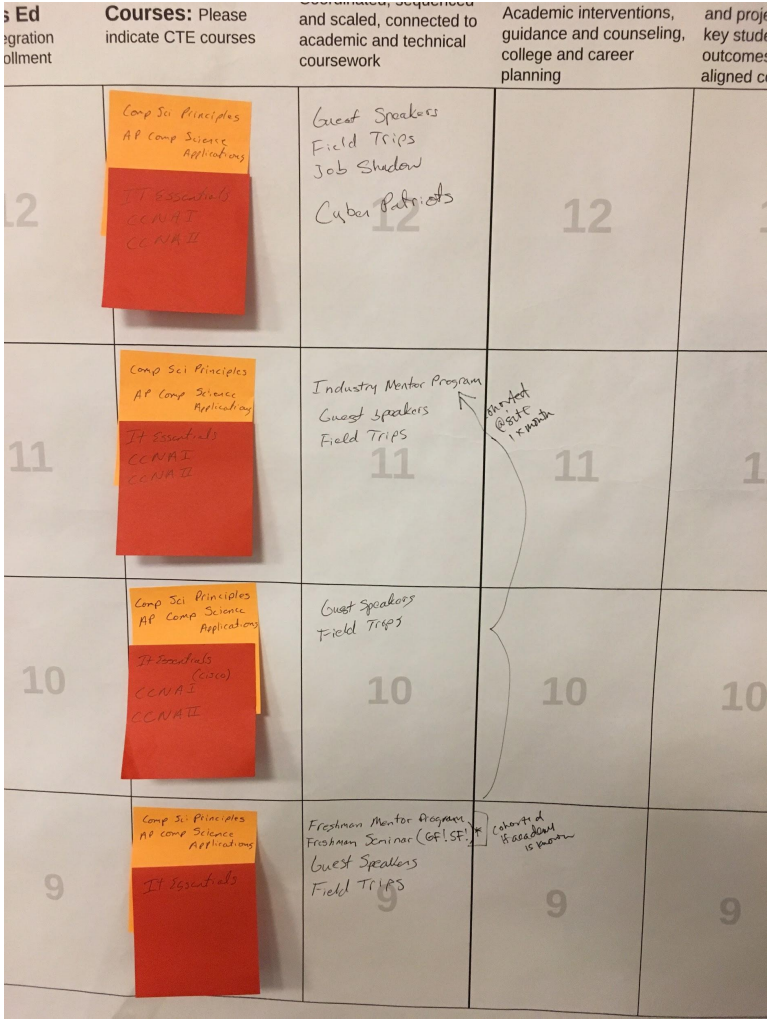
ENTRY LEVEL
-Mechanical Drafter (CAD/CAM), $20.97-35.28/hr
-Woodworking Machine Setters, Operators and Tenders. May operate CNC equipment, $10.51-16.85/hr
-CNC Lathe Operator, $13.06-21.75/hr
-CNC/production machinist $19.49

DRAFT: 2/17/2017


MAPPING
CLP Career Ladders Project
Pathway(s):
Community College(s):
Partner Organization(s):
DRAFT DATE:
Community College Degrees and Certificates
Industry Certifications
Jobs and Wages
Work-Based Learning
Integrated Student Services
ADVANCED LEVEL
MID LEVEL
ENTRY LEVEL
BA/BS Degree/Transfer
AA./A.S Degree/Transfer
General Education
Mid Level Certificate
Entry Level Certificate
AS - Computer Networking
Certificate of Achievement - Computer Networking (30 units)
CCNA Certificate of Specialization - Network Associate (14 units)
Bridge Programs
English
Mathematics
Science
History/ Social Science
Language Other Than English
Visual & Performing Arts / Phys Ed
Career Technical Courses: Please indicate CTE courses
Work-based Learning:
Student Supports:
Curriculum Intg. / Project-Based Learning:
Competencies:
12
11
10
9
High School Courses (general and CTE)
MAPPING
CLP Career Ladders Project
Pathway(s):
High School(s):
Partner Organization(s):
DRAFT DATE:
ConnectEd
The California Center for College and Career
CLP
Career Ladders Project


MAPPING
CLP Career Ladders Project
Pathway(s): Information & Communication Technology
Community College(s): Cabrillo College
Partner Organization(s):
ConnectEd
The California Center for College and Career
BA/BS Degree/Transfer
AA./A.S Degree/Transfer
AS - Computer Networking and System Administration (CNSA)
AS - Computer Support
AS - Computer Applications/Business Technology
General Education
Mid Level Certificate
Computer Networking and System Administration (CNSA) Certificate of Achievement (34 units)
Cisco Certified Network Professional (CCNP) Certificate of Achievement (31 units)
Computer Support Certificate of Achievement (31 units)
Computer Applications/Business Technology Certificate of Achievement (38-39 units)
Business Information Worker Certificate of Achievement (27 units)
Administrative Support Certificate of Achievement (32.5-33.5 units)
Entry Level Certificate
Cisco Certified Network Associate (CCNA) Skills Certificate (12 units)
Microsoft System Administration Skills Certificate (15 units)
UNIX/Linux System Administration Skills Certificate (15 units)
Cybersecurity Skills Certificate (13 units)
A+ Preparation Skills Certificate (15 units)
Computer Support Technician 1 Skills Certificate (19-16 units)
Office Software Skills Certificate (17.5 units)
Social Media Skills Certificate (6 units)
Digital Literacy Certificate (Noncredit)
JOBS AND WAGES
ADVANCED LEVEL
MID LEVEL
ENTRY LEVEL
Cloud Computing Engineer
Data Scientist
Application Support+DevOps Engineer
Web Application Programmer
Linux Support Specialist
Web Developer
DATE: 3.28.2018
CORE
Cyber Competitions
Cyber Patriot


MAPPING
CLP
Career Ladders Project
Pathway(s):
High School(s):
Partner Organization(s):
Career Technical Courses: Please indicate CTE courses
Work-based Learning: Coordinated, sequenced and scaled, connected to academic and technical coursework
DRAFT DATE:


Courses: Please indicate CTE courses
and scaled, connected to academic and technical coursework
Academic interventions, guidance and counseling, college and career planning
Comp Sci Principles
AP Comp Science Applications
IT Essentials
CCNA I
CCNA II
Guest Speakers
Field Trips
Job Shadow
Cyber Patriots
Industry Mentor Program
Guest Speakers
Field Trips
Comp Sci Principles
AP Comp Science Applications
IT Essentials (Cisco)
CCNA I
CCNA II
Guest Speakers
Field Trips
Comp Sci Principles
AP Comp Science Applications
IT Essentials
Freshman Mentor Program
Freshman Seminar (GF! SF!)
Guest Speakers
Field Trips

DE PD

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Dual Enrollment Professional Development

- Outcomes for college administrators, staff, counselors, and faculty:
  - Understand key differences in teaching high school vs. college students
  - Equip everyone to make changes in pedagogy, classroom management to meet the needs of high school students
  - Have tools to create shared guidelines for community colleges and their K-12 partners around behavior, health, instructor obligations, and other issues related to dual enrollment

Session Content:
Pedagogy and Classroom Management in High School
Pedagogy and Classroom Management with Special Populations
K12/Community College Partnerships and Connections
Data and Student Support

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Creating a Dual Enrollment Partnership

Professional development for K-12 and college practitioners!

Career Ladders Project is producing workshops, information sheets, and other resources on various topics in building and managing dual enrollment, or early college, in California.

- CREATING A DUAL ENROLLMENT PARTNERSHIP
- FEDERAL PRIVACY LAW RELATED TO DUAL ENROLLMENT
- SUPPORTING ENGLISH-LANGUAGE LEARNERS IN DUAL ENROLLMENT
- WORKING WITH ADOLESCENTS
- DESIGNING PROFESSIONAL DEVELOPMENT FOR DUAL ENROLLMENT INSTRUCTORS
- ADDITIONAL DUAL ENROLLMENT RESOURCES

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Video Resources

Special Populations

Pedagogy & Classroom Management

CLP Career Ladders Project

Available Resource

Working with Adolescents —Strategies for Instructors

Five general factors influence brain development – genetics, environmental stimulation, nutrition, steroids, and teratogens. Educators can affect one of these in particular: **environmental stimulation**.

What to do! There is a resource for this:

Supporting English-language Learners —Strategies for Instructors

Information sheets associated with this workshop offer more detailed information on working with language learners

Available Resource

Federal Privacy Law Related to Dual Enrollment—Strategies for Coordinators

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We have a handout for that!

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DE Examples

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Reedley College

QUICK TAKEAWAYS: DUAL ENROLLMENT AT REEDLEY

- **High school students enrolled:**
  2,300 per semester in 2017-2018
  More than 10 times 2014-2015 participation
- **Ways to participate:**
  Through pathways, independently, or through ROP or middle college
- **Notable elements:**
  Work-based learning, intensive student supports, faculty training

Reedley College

CLP Career Ladders Project

Norco College

QUICK TAKEAWAYS: DUAL ENROLLMENT AT NORCO

- **High school students enrolled:**
  304 students per semester in 2017-2018
  Up from 0 in 2014-2015
- **Ways to participate:**
  Through pathways or middle college or independently
- **Notable elements:**
  Intensive student supports, college readiness course, advising at each high school
  Pathway design; includes math and English

NORCO COLLEGE

CLP Career Ladders Project

East Los Angeles College

DUAL ENROLLMENT POLICY OPPORTUNITIES

- **Improve data collection and management** to learn how many students participate, improve coordination, and plan more effectively
- **Streamline enrollment process**
- **Prioritize policies** to help colleges build staff capacity and coordination
- **Encourage supports for underrepresented students**
- **Align dual enrollment with other reforms**

elac
EAST LOS ANGELES COLLEGE

CLP Career Ladders Project

Questions

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CLP Career Ladders Project