

Career Ladders Project Team



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Welcome and Introductions

- Name & Institution
- Your first W-9 job

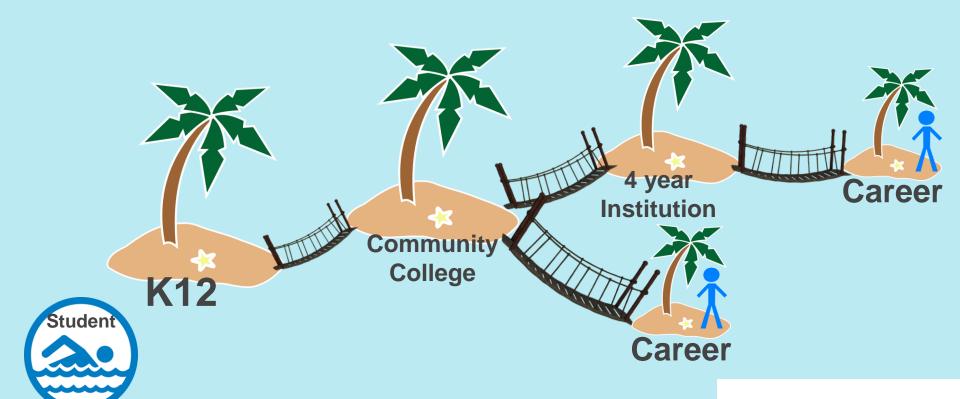




Today's Agenda

- Welcome and Introductions
- High Impact Pathways
- Mapping Process
- Crowdsourcing Outreach
- Action Planning
- Policy Updates
- Next Steps

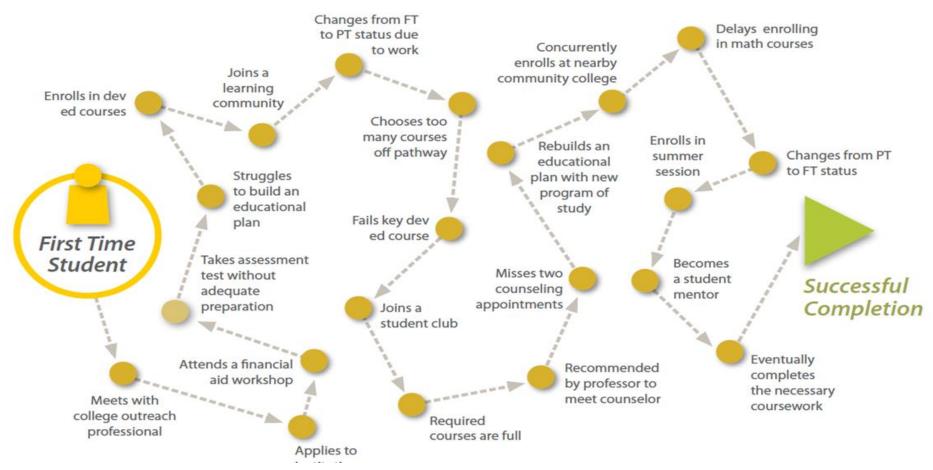








Student's experience of transition can vary...



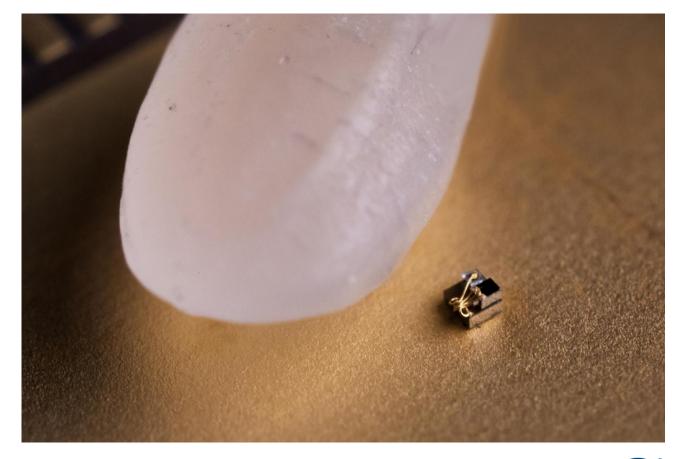




Students Want to Know

- What are my career options?
- What are the education paths to those careers?
- Are those careers in demand?
- Do those careers provide sustainable wages and social mobility?
- What will I need to take?







THE

ROBOTS

ARE

TAKING

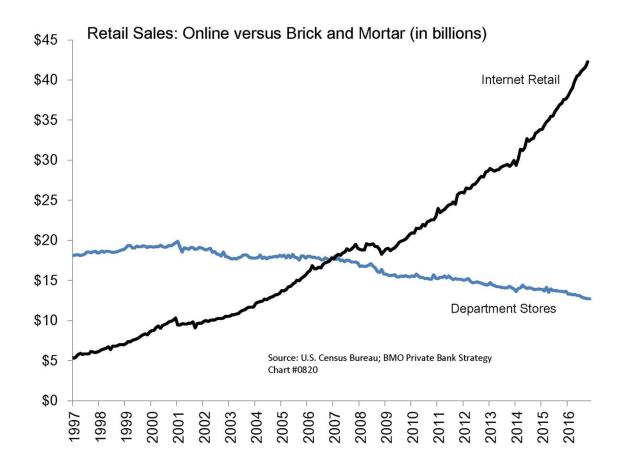
OVER!





RETAIL ARMAGEDDON!

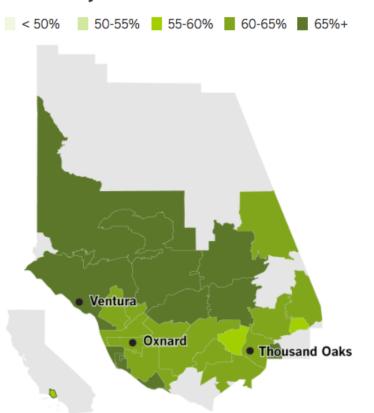






In the **Oxnard-Thousand Oaks-Ventura** area, approximately **60%** of jobs are at risk of automation by 2035.

Percent of jobs at risk of automation



Most at-risk jobs

- Bookkeeping, accounting and auditing clerks
- Cashiers
- · Office clerks, general
- Secretaries and administrative assistants
- · Waiters and waitresses

Least at-risk jobs

- First-line supervisors of mechanics, installers and repairers
- Physicians and surgeons
- Recreation workers
- Computer systems analysts
- Medical and health services managers

One-third

of the U.S workforce could be out of a job by 2030



Chip Act

\$280 billion in new funding to boost domestic research and manufacturing for semiconductors in the U.S.



Rethinking Education and Work

1. DEVELOP NON-COGNITIVE SKILLS

1. PROVIDE EXPERIENTIAL LEARNING OPPORTUNITIES

1. CREATE PATHWAYS THAT BUILD SKILLS & LEAD INTO NON REPETITIVE, IN-DEMAND JOBS



Industry Certifications

 Certifications can provide a more precise screening tool to identify qualified talent

Validating a clearly defined set of knowledge and skills



Entry and Exit Points

DOOR OPENERS are certifications that create standardized access to entry-level jobs in an industry

CAREER ESCALATORS are certifications that help workers advance by validating the knowledge and skills of experienced workers







"Training centers and community colleges are likely to be the front-line defense against a changing labor landscape."



Educators Want to Know

- What are industry sectors are in demand locally and regionally?
- What are the different salary wages within that pathway?
- Are those careers in demand?
- Do those careers provide sustainable wages and social mobility?
- How can we guide students towards these careers?



MAPPING

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

LEGEND

Early College Credit Opportunities

*Aspirational

B.S. Industrial Engineering



STUDENT

SUPPORTS

ADVANCED LEVEL

INDUSTRY CERTIFICATIONS

ADVANCED LEVEL

-NIMS Level 2

LEARNING ADVANCED LEVEL

ENTRY LEVEL

MID LEVEL MID LEVEL

Welding Solciety

-NIMS

-American

AWS EG 3.0

ENTRY LEVEL

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

WORK BASED

AS - Welding Technology - Pipe Welding (30 units)

Metal Arc Welding (2.5 units) WELD-101B Intermediate Shielded Meta 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)

CWE-188WELD Cooperative Work Experience Education (1 - 4 units)

BA/BS Degree/Transfer

B.S. Electrical Engineering B.S. Mechanical Engineering

CWE-188WELD Cooperative Work

Experience Education (1 - 4 units)

AA./A.S Degree/Transfer

AS - Welding Technology -Metal Fabricator/Welder (30

WELD-101A Introduction to Shielded 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 Shielde Metal Arc Welding (2.5 units) WELD-104 Introduction to Gas Tungsten Arc Welding (2 units) WELD-165 Pipe Welding Fundamentals WELD-105 Advanced Gas Tungster Arc Welding (2 units)

AS - Welding Technology -Industrial Welder (30 units)

WELD-120 Industrial Welding WELD-122 Industrial Welding I (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

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)

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) MEGT 141 CATIA I (3 units

MFGT 142 CATIA II (3 units)

units)

Certificate of Specialization - Manufacturing Technology - CAD/CAM (6 units) MEGT 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 Programmin MFGT 122-CNC 2 Concepts and Programming (3

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

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 units) Required Electives:

WELD-080 Non-Destructive Testing (3 units) units) WELD-130 Welding Metallurgy (3 units) WELD-132 Blueprint Reading for Welders and Fabricators (3 units)

> Bridge: Nuts and Bolts and Thingamajigs

JOBS AND WAGES

ADVANCED LEVEL

-Welding Inspector,

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

MID LEVEL MID LEVEL

-Welder -Career Center & \$14.84-25.13/hr Industry * -Mechanical Drafter, -Application Interview \$20.97-35.28/hr - Counselor and Academic Advisors specialized to Pathway

automotive. aerospace, and manufacturing entry level designer or

ENTRY LEVEL

Prep*

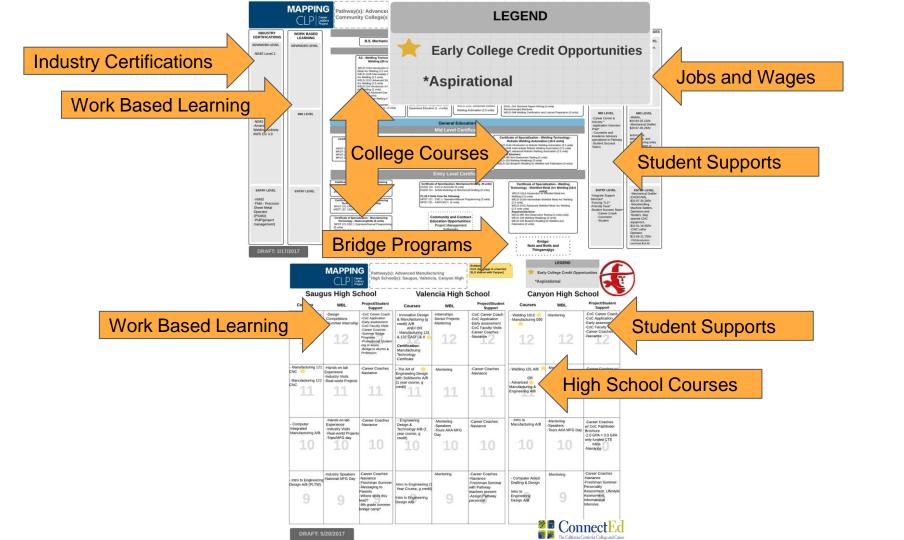
Teams

-Student Success

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

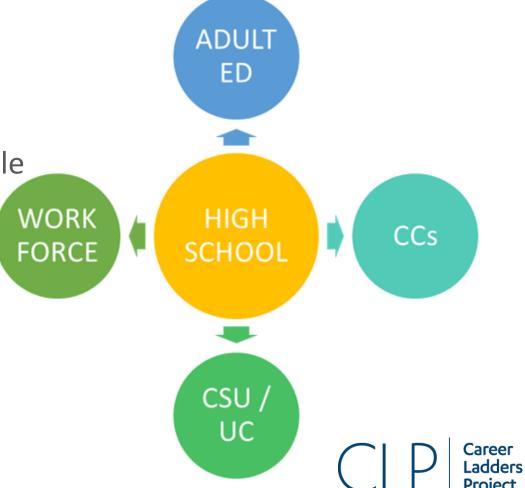
ENTRY LEVEL -Mechanical Drafter (CAD/CAM), \$20.97-35.28/hr -Woodworking Machine Setters. Operators and Tenders. May operate CNC equipment, \$10.51-16.85/hr -CNC Lathe Operator, \$13.06-21.75/hr -CNC/production machinist \$19.49

DRAFT: 2/17/2017



Pathway Maps

- Middle School Accessible
- Current Information
- English & Spanish
- Dynamic Interface



Pathway Maps

HIGH SCHOOL

- CTE Pathway
 Sequence
- A-G approval
- Articulation OR Dual Enrollment
- Industry Credential
- Internship / Work Based Learning

COMMUNITY COLLEGE

- Sector Alignment
- Program Link

ADULT & CONT. ED

- Sector Alignment
- Program Link

csu / uc

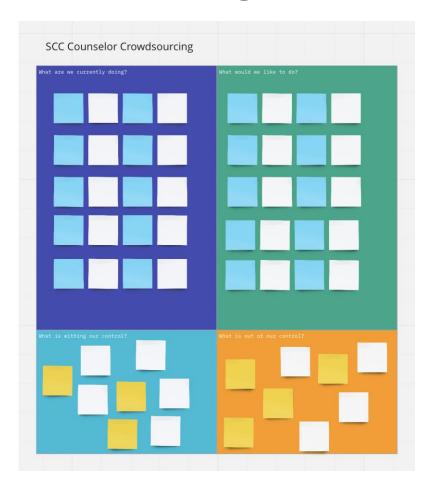
- Sector Alignment
- Program Link

WORKFORCE

- Career Videos
- Jobs and Wages
- Labor Market
 Data



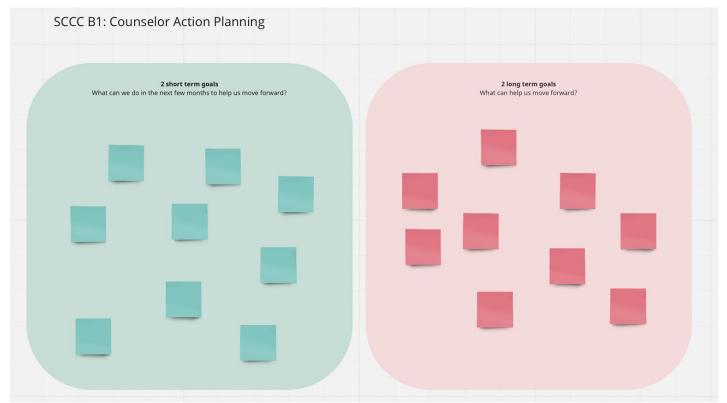
Crowdsourcing Outreach



Please use the Miro link in the chat

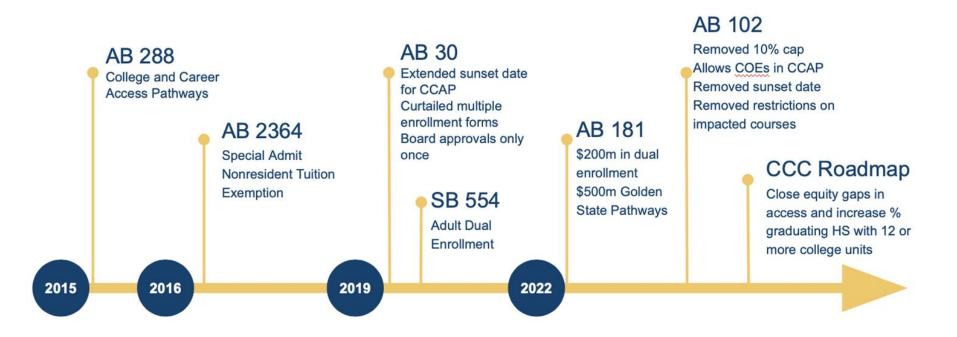


Action Planning - how can we move this work forward?

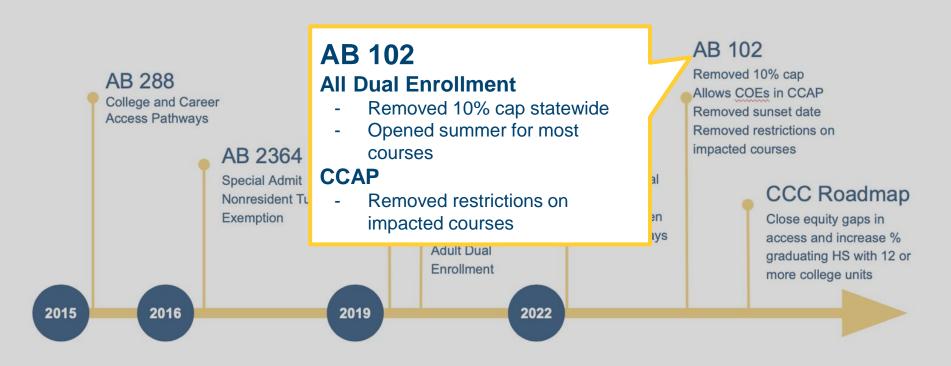




Dual Enrollment Policy Timeline



Dual Enrollment Policy Timeline



Funding Opportunities

- 200m dual enrollment
 - 100m for for CCAP expansion (100k ea)
 - o 100m for Early or Middle College High School (250k ea)
- 500m Golden State Pathways
 - O Partnerships secondary, post-secondary, employers, CBOs etc
 - Priority pathways- Education, Healthcare, Technology, and STEM/Climate Related Fields
 - Integrated college *and* career
 - o 12 units of early college credit
 - Work-based learning
 - Quality standards like Linked Learning



Dual Enrollment Opportunities

- \$100m for College and Career Access Pathways (CCAP) \$100k awards
 - New CCAP agreements
 - Expand to serve more students w/in a school or expand to a new high school in a district
 - Expand to include robust pupil advising, student success support services, and outreach campaigns to promote dual enrollment.
- \$100m for Middle Colleges and Early Colleges (MCEC) \$250k awards
 - New MCECs either autonomous
 - Expand MCECs to serve more students
 - Expand to include robust pupil advising, student success support services, and outreach campaigns to promote dual enrollment.

User's Guide for ATB and Adult Dual Enrollment



February 2023

Transitioning Adult Learners to College

A User Guide for Ability to Benefit and Adult Dual Enrollment By Career Ladders Project







Next Steps Together







careerladdersproject.org

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Sherry Shojaei - sshojaei@careerladdersproject.org



Why Does it Work?



I was very scared [in dual enrollment] I really thought I was not smart enough to do this ... but luckily I had amazing staff and counselors and teachers that were always by my side to support me.

A lot of them were on me "like Zurrie you can do this math class" "you got it" and *just having that support really helped me believe that I could do it*, and now I'm here and I'm so happy and thankful for that.

Zurrie Addo Boateng
Design Science High School, FUSD
Future Medical Doctor



Why Does it Work?



Starting off in geometry ... I didn't really think I was going to do that well in math ... I didn't really understand many of the concepts. But as soon as I got in Algebra II everything clicked, and then I went through trig, and then went through calculus and that's when I really started to like math a lot ... now I'm in Calculus IV

Growing up both my parents were field workers. The highest grade they went to was second grade. Throughout elementary and middle school I would end up helping them in the fields which put a huge strain on us because we needed money but I also wanted to do good in school.



Alexis Meneses
Design Science High School, FUSD
Future Mathematics Professor