

Our Path Tonight

- Welcome and Introductions
- Pathway faculty and staff, and guests!
- Mapping our Pathways

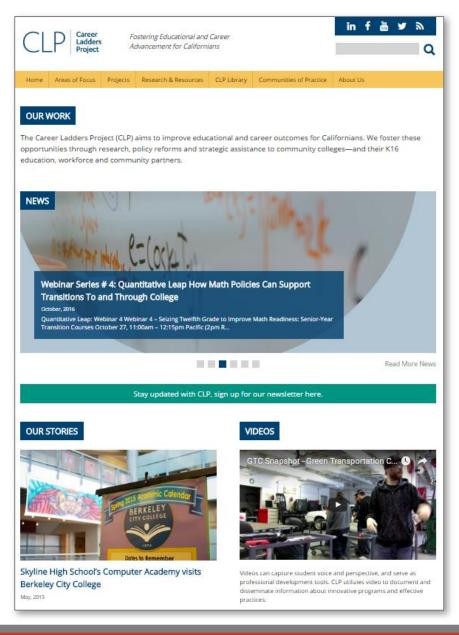
Why? How? Now!

- Breakouts: RapidMapping and Action Planning
- Next Steps, Process Check, and Closing









Career Ladders Project fosters educational and career advancement through research, policy initiatives and direct assistance to community colleges and their partners.

Honored to have worked with CCSF, including deep work with faculty and staff on, researching institutional challenges to completion, CCSF's success with CTL Bridge to Biosciences, and SF CCPT







Our CLP Team



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Our Team Today

- Luis Chavez
- Lindsay Anglin
- **Brook Sinclair**
- Dan Figueroa
- Mike Williamson
- Roy Robles
- Peter Simon
- Olivia Herriford
- Tomoko Ha
- Maeve Katherine Bergman





CTE Mapping Summit

March 7, 2017





Program Selection

- Faculty Interest and Inquiry
- Driving Reasons:
 - Alignment and Partnerships;
 - ✓ Innovative Pilots and Grants;
 - CTE Accountability and Metrics;





Driving Questions for Today

- → How does mapping reflect college goals and planning?
- → What problem are we trying to solve?
- → How is this work student-focused?



CCSF Education Master Plan Goals

Goal 1: Advance student achievement in meeting educational goals;

Goal 2: Transform and sustain College infrastructure;

Goal 3: Provide new and expanded opportunities for organizational development and effective innovation;



What problem are we trying to solve?

From

Disproportionate success rates;

 Students take no more than 1-2 CTE courses;

 Students wander in college, extending their time-todegree.

To

- Course and program success is not predictable by race, ethnicity, or gender;
- More students advance beyond beginning classes to advanced CTE courses;
- Students declare a major early and follow a guided path to completion with proactive advisement.



Other?

Connecting Many Efforts

- ☐ Metro Pathways— on-ramps to certificates and degrees
- ☐ Leading from the Middle Projects
- ☐ SSSP intentional guidance toward completion outcomes
- ☐ Equity increasing success measures
- ☐ Basic Skills accelerated dev education
- ☐ CCPT alignment with High School
- ☐ AEBG alignment with noncredit programs, CDCP, & onramps
- ☐ SWP (Strong Workforce Program) Funding and Metrics
- ☐ Bridge to Success
- ☐ New Grants in Apprenticeship, Technology, Healthcare
- □ Occupational Clusters
- ☐ Favorable unemployment rates and population growth projections





Insights from College & Community Stakeholders

Improving CCSF Access, Engagement, and Completion

February 2017
Qualitative Research Study Commissioned by CCSF
Completed by the Research and Planning Group (RPG)



Who did we ask?

- 22 Community Based Organization leaders/staff;
- 12 Community Adults;
- 8 CCSF Faculty (2 counselors, 6 instructors).

What did we ask?

- What works to connect adults to CCSF?
- What is the entry-to-CCSF experience?
- What further actions can CCSF take to help undecided students set and achieve an educational goal?
- How can we increase completion and success for our students?



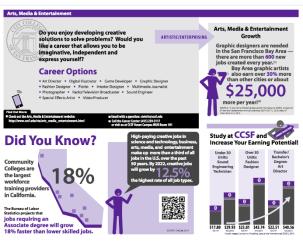
What did we learn?

- Share information/ message the value of a CCSF education in an ongoing way;
- Produce planning tools and program maps that show the way to certificates, degrees, and jobs;
- Design programs for undecided students who are seeking more career guidance;
- Structure more information exchange between counselors and teachers;
- Engage CBOs as advocates;
- Involve and design CBO support even as adults become students i.e. continuous non-academic support;
- Learn from the competition i.e. there are other colleges, both public and private, who are perceived as more efficient in getting students in and out to their goal.



Supplemental Materials

rts, Media & Entertainment Start Training for your Arts, Media & Entertainment Job TODAY at CCSF		Visit us at: http://www.ccsf.		Ω		
		■ Take our quick Career Mate www.coff.edu/cte ■ Work with a career counsel	ch survey to match you	CITY (
	Program	Units Required for the Major	Career Match Code	AA/AS/Certificate Credit/ NonCredit	COLLE	CAREER CLUSTER
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	Video Production and Post Production	14-15	AUS	Cert./Credit	_	_
	Digital Animation	14517	3/5/8	Cart/Coult	유	ARTISTIC/ENTERPRISING
_	Fashion Bustration	15	84	Cert/Credit	-	•
	Live Sound	15	8/6	Cert/Credit		
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	Studio Ughting	17	ATUS	Cart/Credit	0	# Game Developer
	Television Production	17	R/G/I	CarUCredit AAC/Credit		= Graphic Designer
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	Digital Art Feundation	19	4/1/8	Cart/Codd		# Florist
	Game Development	20-22	Al	Cert/Cerdit		= Interior Designer
	Testiles	21	NCE.	Cirt/Credit		= Multimedia Journalist
	Visual Design Foundation	25	IRC	Cert/Credit		= Photographer
	Digital Sustration	27	A/3/1	Cert/Credit		= Badio/Television Broadcaster
						# Sound Engineer
	Visual Natia Production	16-73	use	Curt Courts		= Special Effects Artist
	Commercial Cut Flower and Greenhouse Production	32	58	Cort Credit		= Video Producer
)÷	On-line Research (Journalis III)	33	CI	Cert/Credit		- viseo i rounce!
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	Journalism	44	AS	AA/Credit		
	Photography	61-69	AS	A.A./Credit	www.ccsf.edu	Locations Throughout San Francis
	Renhlon Genign	51	A/G	A.S./Cert./Credit		
	Convergent Media Production			Cart/Credit		











professionals. Gain new caree



Coming Soon: Student Profiles

CITY COLLEGE OF SAN FRANCISCO



Computer Networking and Information Technology (A.S.)

Devin Duffy-Halseth

Devin "Duffy" Duffy—Halseth had an old Epson computer when he was a kid. He loved it, spent hours taking it apart, messing it up, making it better. He taught himself a lot. He got an after school job at a computer repair shop, and kept it when he graduated. For a while he was happy, but as time passed it started to feel like a dead end. Deciding it was time for a major change, Duffy joined the Navy. He spent two years in Anti-Ship Missile Defense, but when he returned to civilian life he found himself in the same predicament.

Duffy was still into computers, but he definitely didn't want to work retail anymore. "I needed more experience one way or another" and he figured the best way to get that experience was to go back to school. Duffy saw there was an option to specialize in Network Security at CCSF, and that really sparked his uriosity. "Whenever there was a big back on the news I wondered how they managed to pull it off and here was my chance to find out."

Duffy hadn't been to school for a long time. "In the first few classes I felt like an Imposter. like everyone knew more than me," but he forced himself to ask questions and realized everyone in the course was "actually super chill and helpful."The classes became "immensely fun." Duffy excelled, and his teacher asked if he'd lead the college at the National Collegiate Cyber Defense Competition. At the event, the CCSF team halted security breaches, built superior infrastructure and held their own against well-known four-year schools. Duffy enjoyed the experience so much he decided to start an official CCSF Hacker's Club. The club invites cybersecurity professionals to speak, ponder mind-bending computer puzzles, and prepare for national competitions (recently the Collegiate Pen Testing

Last summer. Buffy was able to secure an internship with Uber's Incident Respons-Team, monitoring their networks for suspicious activity. It was an "awesome" experience being able to "apply everything from class and from the competitions to threat analysis in the real world." Duffy plans to graduate in a year, but wanted to take some time off, and "CCSF made it real easy to take a semester off to work full time and save money."This way he'll be able to give his full attention to classes when he comes back. He plans on staying in touch with the team during his time away from CCSF and is confident he'll find lucrative and engaging work in the

"Whenever there was a big hack on the news, I wondered how they managed to pull it off and here was my chance to find out."

Devin Duffy-Halseth



CITY COLLEGE OF SAN FRANCISCO



Dylan Smith

Dylan Smith grew up spending a lot of time at his mother's art gallery in Missouri. The gallery specialized in "reclaimed art and there was always a trash heap of spare electronic parts. I would try and piece them together and make stuff, eventually I got a computer to work, and I was hooked." People started asking Dylan to help with their computer problems and he realized he could make money. "I was working as a consultant in high school, three jobs before I was due to graduate. So I dropped out. I started working more and they kept paying me because I was good enough."

WHAT BROUGHT DYLAN TO CCS

Moving to San Francisco made Dylan reconsider school. He had been working for years now, but "San Francisco was the big leagues, a very educated and very expensive city, the stakes were higher and the vetting process was more intelled." didn't know anyone who could youch for me and I thought most companies w want to see a piece of paper. That's why I came to City Collec-

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**uer Science, **wnore theory, a lot of math and algorithms, which are handy in CNIT, but you can still go far in this industry without them." He switched his focus. He began tutoring some intro classes and eventually became a teaching assistant. Now Dylan assists in the classroom and also in workshops at major hacking and cybersecurity events like, DEF CON, BSides, and the RSA Conference. Assisting at these events has been a great way to meet industry professionals. It's also given Dylan more money and time for extracurriculars, like

motorcycle repair classes. WHY COSE WAS A GOOD CHOICE FOR DIVAN

"Returning to education and coming to a place like City College, made me realize that I want to teach." Dylan aims to complete his CNIT Associates' Degree next semester and then apply for a part time teaching position here at CCSF. He doesn't plan on ending his education there. He also wants to complete a Computer Science A.S. and a Motorcycle Technician Certificate at CCSF before eventually pursuing a Bachelor's and maybe even a Master's in Computer Science from Cal State.

"CNIT is more hands-on than Computer Science, that's more theory, a lot of math and algorithms, which are handy in CNIT, but you

can still go far in this industry without them."

CITY COLLEGE OF SAN FRANCISCO



Computer Networking and Information Technology (A.S.)

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Soledad was on vacation, visiting friends (CCSF students), when she discovered the Computer Network Information Technology program at CCSF. As she was reading about it, she felt the same pang she did in high school when people talked about computers, "Back then, I didn't know anything about computers. I didn't have one it was like a parallel universe for me, and this time with cybersecurity it was the same thing."There were no college level courses like this available in Spain and very few arrywhere else. Her parents thought she was crazy to leave her well-paying job, but she knew she had to do it. She took the placement tests before leaving San Francisco and was back again a few months later to start the

When Soledad first started at CCSE she wasn't fruent in English. "I had to be very focused because of the English, I remember being in class thinking, I can't even move, because if I move my head I won't even know what the teacher is saying." As an ESL student, she had to spend extra time studying, but she didn't mind because she loved the classes and was very excited about the program. "I was so impressed. I thought wow, I'm learning about things I didn't even know existed. I'm getting to know the secrets of computer science that no one knows about." All of her extra time spent studying paid off in her second year when her instructor recommended her for an internship at the Lawrence Berkeley National Lab.

WHY CCSF WAS A GOOD CHOICE FOR SOLEDAD

After completing her internship and degree, Soledad was offered a full time job as a Cyber Engineer at Lawrence Berkeley National Lab. She also started Girls Can Hack, a Meetup group which inspires and encourages girls to break into the male-dominated field of cybersecurity. "I always tell them to do the CNIT program. always. I tell them the truth; I tell my story. The program is great. I'm very happy with the decision to study at City College, it was the decision of my life."

Soledad Antelada Tole as so impressed, I thought v, I'm learning about things I didn't even know existed, I'm getting to know the secrets of computer science that no one knows about."



Search









Uploads



Computer Network Information Technology @ CCSF: Devin Duffy

13 views • 1 month ago

Computer Network Information Technology @ CCSF: Dylan Smith

19 views • 1 month ago





Lara, welcome to CCSF!

- 1. What is your career goal?
- 2. Here is how you get there...
- 3. When do you want to begin to work in your field?





Introductions

Pathway Team Leads:

Please share your name, position, pathway, and introduce your team

Pathway visitors:

 Please select a pathway team to join for the entire the evening, and introduce yourself



Outcomes for Today

- 1. Understand the research based strategies for developing pathways
- 2. Understand how pathway mapping and programs of study can support student success and equity
- 3. Review and complete draft Pathway Maps
- 4. Identify priority areas for development
- 5. Develop draft action plan/next steps







Why Pathways?





For Our Students:

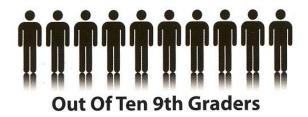








We are Losing Our Students











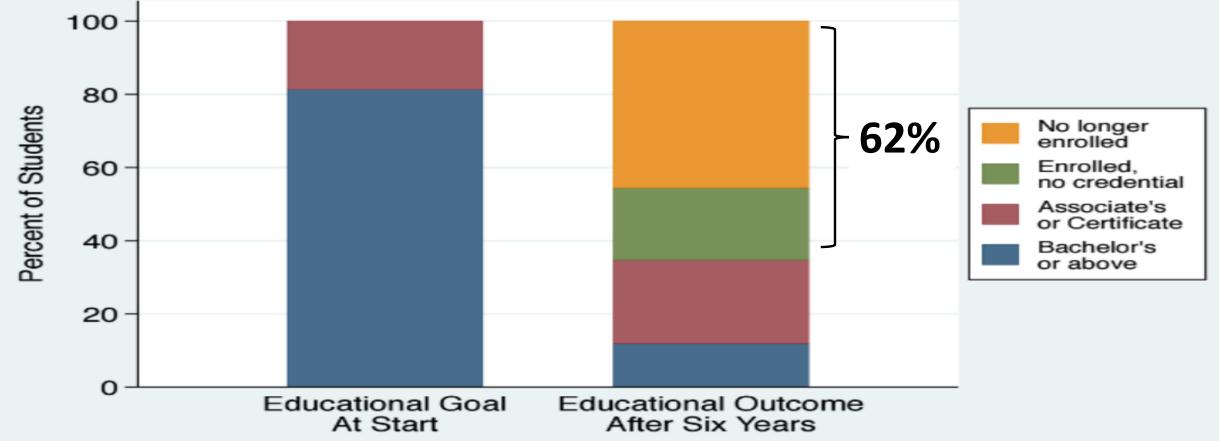






Each year dropouts represent \$320 billion in lost lifetime earning potential

Educational Goals and Six-year Attainment, Students who Started at a Community College, Fall 2003



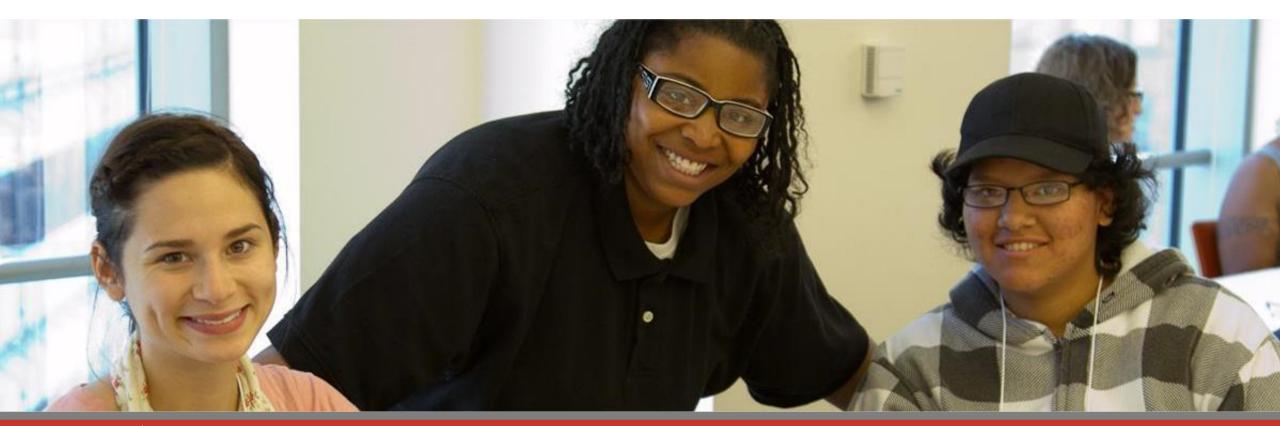
Source: U.S Department of Education, National Center for Education Statistics, 2003 Beginning Postsecondary Students Longitudinal Study, Second Follow-up (BPS:04/09)







From our Students' Perspective:









Our Students Want to Know:

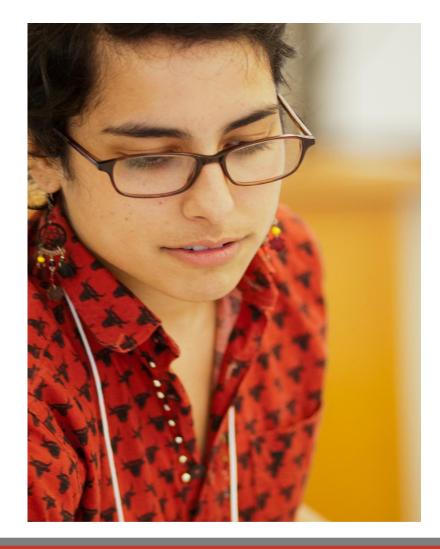
- What are my career options?
- What are the education paths to those careers?
- How do I get a bachelor's degree?
- What will I need to take?
- How long will it take and how much will it cost?
- How do I pay for it?







However, from Major Selection...



Programs	Associate Degre	e Transfer Degree	Се	rtificate
Accounting (AS)	AS			
Accounting Technician			CA	
Administration of Justice	AA	AS-T		
Administrative Assistant (AS)	AS			
Administrative Assistant (COA)			CA	
Administrative Assistant Entrepreneur				CP
Anthropology	AA	AA-T		
Aquatics			CA	CP
Architecture	AA AS			
Architecture Technology			CA	
Art (Emphasis in Ceramics)	AA			
Art (Emphasis in Painting)	AA			
Art (Emphasis in Sculpture)	AA			
Art (General)	AA			
Art History	AA			
Audio Recording				CP
Automotive Chassis Technology			CA	
Automotive Drivetrain Technology			CA	
Automotive Engine Machining			CA	
Automotive Engine Performance Technology			CA	
Automotive Maintenance Technology			CA	
Automotive Service Consulting			CA	
Automotive Technology	AS			
Automotive Technology (Emphasis in BMW Manufacture Training)	AS			
Automotive Technology Entrepreneur				CP
BMW Manufacture Training			CA	
Behavioral Science	AA			
Biology	AA	AS-T		
Biology (Emphasis in Allied Health)	AA			
Bookkeeping			CA	
Business	AS			
Business Administration		AS-T		
Business Graphics				СР
Businessâ€"Transfer			CA	







...to General Education Requirements, More Clarity is Needed

Basic Liberal Studies Requirements: [2 courses must include the Diversity (D) overlay]

English Communication: 6 credits; 3 credits must be in a writing course

Writing (ECw): ELS 112, 122 (nonnative speakers); HPR 326; WRT 104, 105, 106, 201, 227, 235, 302, 303, 304(D), 305(D), 333. General (EC): COM 100(D), 110(D); LIB 120; PHL 101.

Fine Arts and Literature (A): 6 credits; 3 credits in Fine Arts and 3 credits in Literature

Fine Arts: ARH 120(D), 251(D), 252(D); ART 101, 207; FLM 101(D), 203(D), 204(D), 205(D); HPR 105, 124, 201A, 202A, 324; LAR 201; MUS 101(D), 106(D), 111, 292(D), 293(D); PLS 233; SPA 320(D); THE 100, 181, 351(D), 352(D), 381, 382, 383. Literature: AAF 247(D), 248(D); CLA 391(D), 395(D), 396(D), 397(D); CLS 160(D); ENG 110(D), 160(D), 241(D), 242(D), 247(D), 248(D), 251(D), 252(D), 262(D), 263(D), 264(D), 265(D), 280(D), 300(D), 302(D), 303(D), 304(D), 317(D), 357(D), 358(D); FRN 309(D), 310(D), 320(D), 391(D), 392(D), 393(D); HPR 105, 125, 201A, 202A; RUS 391(D), 392(D); SPA 305(D), 306(D), 307(D), 308(D); WMS 317(D).

Language/Culture (FC): 6 credits

- Demonstration of competence through the intermediate level by examination or successfully completing through 104 (living language) or 302 (classical language)
- Two-course sequence (or one course at the 113 level) in a previously studied language through at the appropriate level (all D):
 ARB 103, 104; CHN 103, 104; FRN 103, 104; GER 103, 104; GRK 301, 302; HBW 103, 104; ITL 103, 104, 111; JPN 103, 104;
 LAN 193, 194; LAT 301, 302; POR 103, 104; RUS 103, 104; SPA 103, 104, 111, 113, 210.
- Two-course sequence (or one course at the 111 level) in a language not previously studied (or studied for less than two years in high school) through the beginning level: ARB 101, 102; CHN 101, 102; FRN 101, 102; GER 101, 102; GRK 101, 102; HBW 101, 102; ITL 101, 102; JPN 101, 102; LAN 191, 192; LAT 101, 102; POR 101, 102; RUS 101, 102; SPA 101, 102.
- Study abroad in an approved program for one semester
- Major in a foreign language
- Formerly registered international students, students with recognized immigrant status, or naturalized citizens (at Dean's discretion)
- Two courses in Cross-Cultural Competence: CPL 300(D); FRN 309(D), 310(D), 320(D), 391(D), 392(D), 393(D); HIS 132(D), 171(D), 172(D), 180(D), 311(D), 327(D), 374(D), 375(D); HPR 201F, 202F; LET 151L(D), 151Q(D), 151R; NRS 300; PHL 331(D); RLS 131(D); SPA 320(D), TMD 224(D); six credits of a full-semester approved Intercultural Internship in a foreign country through the Office of Internships and Experiential Education

Letters(L): 6 credits

AAF 150(D), 201(D), 355(D), 356(D); APG 327; BGS 392(D); CLS 160(D), 235; EGR 316(D); ENG 110(D), 160(D), 243(D), 251(D), 252(D), 280(D), 355(D), 356(D); FRN 391(D), 392(D), 393(D); HIS 111, 112, 113(D), 114(D), 116, 117, 118(D), 130(D), 132(D), 141(D), 142(D), 145(D), 146(D), 150(D), 160(D), 171(D), 172(D), 180(D), 304, 305, 310(D), 311(D), 314, 323(D), 327(D), 333(D), 340(D), 341(D), 346(D), 351(D), 355(D), 356(D), 374(D), 375(D); HPR 107, 201L, 202L, 307; JOR 110(D); LAR 202(D); LET 151L(D), 151Q(D), 151R(D); NUR 360(D); PHL 101, 103, 204, 210(D), 212(D), 215, 217(D), 235, 314, 316(D), 321, 322, 323(D), 325(D), 328(D), 331(D), 346, 355; PSC 341, 342; PSY 310; RLS 111(D), 125, 126, 131(D); WMS 220(D), 315(D), 320(D)

Mathematics(MQ): 3 credits satisfied by MTH 141

BUS 111, CSC 101, 201; HPR 108, 201M, 202M; MTH 106, 107, 108, 109, 111, 131, 141; PSC 109; STA 220.

Natural Sciences(N): 6 credits; satisfied by PHY

AFS 190, 210, 211; APG 201(D); AST 108, 118; AVS 101(D); BCH 190; BIO 101, 102, 105, 106, 286(D); BPS 201; CHM 100, 101, 103, 112; GEO 100, 102, 103, 110, 113, 120; HPR 109, 201N, 202N; MIC 190; NFS 207; NRS 190; OCG 110, 123, 131; PHY 109, 111, 112, 140, 185, 186, 203, 204, 205, 273, 274, 275; PLS 150, 190; TMD 113

Social Sciences(S): 6 credits

APG 200(D), 202, 203(D), 301(D); CPL 202(D); ECN 100(D), 201, 202, 306, 381(D); EDC 102(D); EEC 105, 310, 356; GEG 101(D), 104(D), 202(D); HDF 225; HPR 110(D), 201S, 202S; HSS 130; JOR 110(D); KIN 123(D); LIN 200(D); MAF 100; NUR 150(D); PSC 113(D), 116(D), 274(D), 288; PSY 103(D), 113(D), 232(D), 235(D), 254(D), 255(D); SOC 100(D), 212(D), 230(D), 240(D), 274(D); TMD 224(D), WMS 150(D)







Case Study: First Year Business Math Requirement

Two-Year Course Sequence Beginning in the Fall Semester

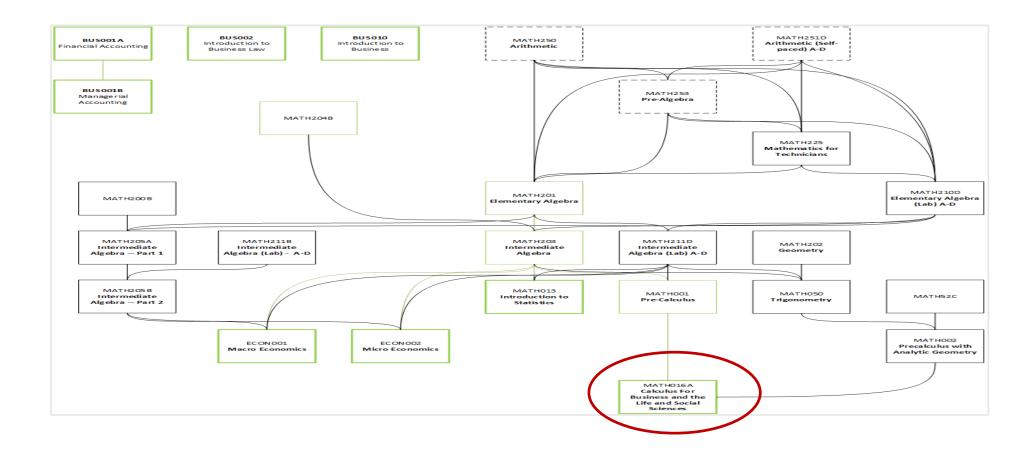
You can use the following pattern to complete an Associate in Science Degree for Transfer in Business Administration. This is only one possible pattern. If you wish to earn an associate degree, you must participate in the Student Success Program (Matriculation), which includes assessing academic skills and developing a Student Education Plan (SEP) with a counselor. This plan will map your sequence of courses to help you complete your degree regardless of the semester you begin classes.

complete your degr	ee regardless of the semester you begin classes.					
1st Semester/Fall		Units				
BUS 010	Introduction to Business	3				
MATH 016A	Calculus for Business and the Life and Social Sciences	3				
	and Elective Courses	9				
2nd Semester/Spr	ing	Units				
BUS 002	Introduction to Business Law	3				
ECON 001	Principles of Economics (Macro-Economics)	3				
General Education and Elective Courses						
3rd Semester/Fall		Units				
BUS 001A	Financial Accounting	4				
ECON 002	Principles of Economics (Micro-Economics)	3				
General Education	and Elective Courses	8				
4th Semester/Spri	ng	Units				
BUS 001B	Managerial Accounting	4				
MATH 013	Introduction to Statistics	4				
General Education	and Elective Courses	7				



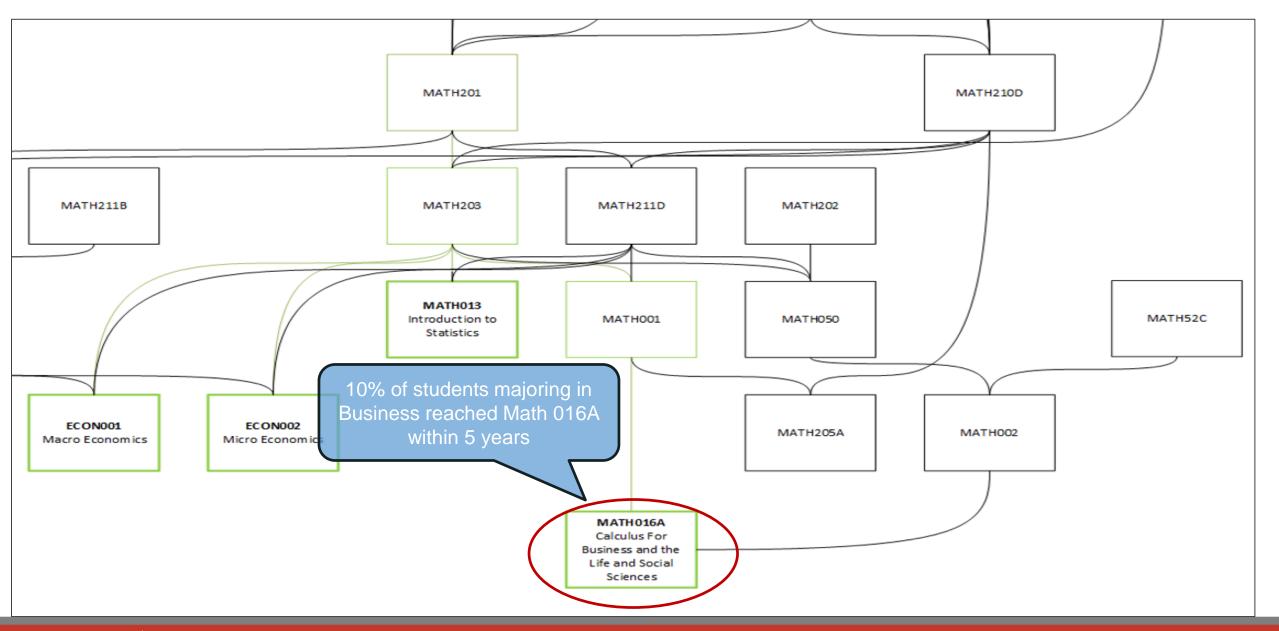


CALIFORNIA CC CASE STUDY: COURSE SEQUENCE FOR AN AA IN BUSINESS















Business Math Case Study is not Anecdotal: Our Students tell Researchers...

- >50% Concerned about making a mistake when choosing classes (Moore & Shulock, 2014)
- 42% don't have enough information about requirements (Rosenbaum et al, 2006)
- Surprised to find that courses taken do not count towards credentials (Nodine et al 2012)







Building Pathways for Navigating College and Career





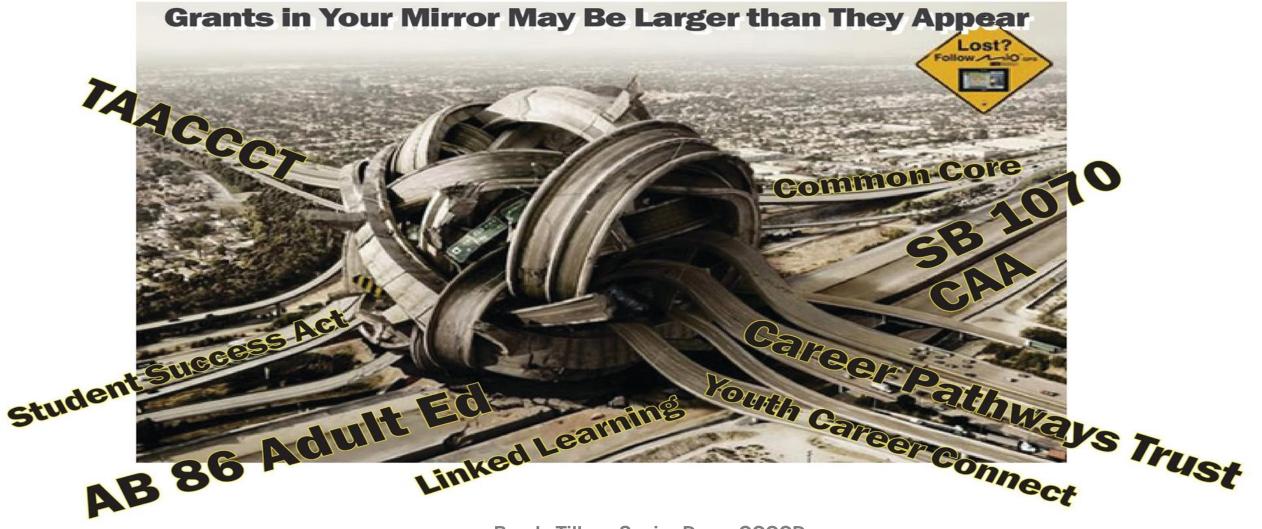












Randy Tillery, Senior Dean, CCCCD







K12

1000+ School Districts; 58 County Offices of Ed

- Local Control Funding Formula (LCFF)
- Local Control and Accountability Plan (LCAP)
- Common Core State Standards
- Smarter Balanced Assessment
- Next Generation Science Standards
- CTE Standards and Framework
- CA Office to Reform Education (CORE) Waiver Districts
- CA Partnership Academies
- Linked Learning District Initiative
- AB790 LL Pilot Districts
- Career Technical Education Incentive Grant

CCC/K12

- SB1070 CTE Pathways Program
- AB86: Adult Ed/CCC Regional Consortia
- AB86: CA Career Pathways Trust (CCPT)
- AB288: College and Career Access Pathways (CCAP) Partnerships

CA Community Colleges

72 Districts (112 Colleges, 76 Centers); 15 Regions 7 Workforce & Econ Dev Regional Consortia

- Basic Skills Initiative
- Career Advancement Academies
- Enhanced Non-Credit
- \$B1440 Assoc. Degrees for Transfer
- Student Success Act of 2012
- Online Education Initiative
- Common Assessment Initiative
- Multiple Measures Assessment Project
- Education Planning Initiative
- **Doing What Matters**
- ARCC; Scorecard and System Completion Goals
- Salary Surfer; Launchboard; CTE Data Unlocked
- CTE Enhancement Fund
- SB850 CCC Bachelor's Degree Pilots
- Student Equity Plans
- Basic Skills Student Outcomes and Transformation Program
- Institutional Effectiveness Partnership Initiative (IEPI)
- California College Promise
- Strong Workforce Program
- CCC Guided Pathways Program (proposed)

CA Workforce Development Board

48 Local Workforce Development Boards (47 areas)
From **WIA to WIOA**

- CA Strategic Workforce Dev Plan 2013-17
- Local Strategic Workforce Plans 2013–17
- CA Unified Strategic Workforce Development Plan 2016-2020 (WIOA)
- Local Boards Strategic Workforce Dev Plan TBD
- SB 118 Sector Strategies
- Prop 39 Clean Energy Job Creation Training Grants
- Workforce Accelerator Fund
- "Slingshot" Initiative (Regional Coalitions)
- ForwardFocus (AB2060 Recidivism Reduction Funds)

Other Regional Entities, Partnerships

& Initiatives Examples include:

- LA County Econ Development Corporation (LAEDC)
- LA Chamber
- LA Compact/UNITE-LA
- United Way Los Angeles
- Aspen Forum for Community Solutions Opportunity Youth Incentive Fund (7 CA sites, incl. LA)
- James Irvine Foundation "Regional Hubs of Excellence"

Federal Initiatives & Grant Programs

- Perkins Career & Technical Education Act
- TAA Community College Training Grants
- Dislocated Worker Nat'l Emergency Grants
- Health and Human Services Grants
- SNAP Employment and Training Funds
- Apprenticeship USA State Expansion Funds
- Career Pathways for Youth
- Re-entry Demonstration Projects
- America's Promise: American Tech Training Fund
- ETC.

Other Related Agencies/Services in CA

- Governor's Office of Business & Econ Dev (GO-Biz)
- Cities, Counties
- Other Workforce Programs: CalWorks;
 Rehabilitation; Corrections; Veterans Affairs,
 Apprenticeship; Health and Human Services; Social Services; Job Corps; Employment Training Panel;
 Public Utilities Commission; etc.



Perhaps, But What do you Mean by Pathways?







What is a Career Pathway?

A Career Pathway is a series of structured and connected education programs of study and supports that enable students to advance over time to higher levels of education and training and eventually a career or better job.

- Career Pathways can begin as early as middle school and extend to post-secondary institutions, including community colleges, 4-year colleges, and even graduate programs.
- Each step on a career pathway is designed explicitly to prepare students to progress to the next level of employment and/or education.
- Career pathways target jobs in industry sectors of importance to local and regional economies.
 - -- Career Ladders Project. (2014) Summary of national literature on Career Pathways.





HIGH IMPACT PATHWAYS (HIP) When done well, career pathways:

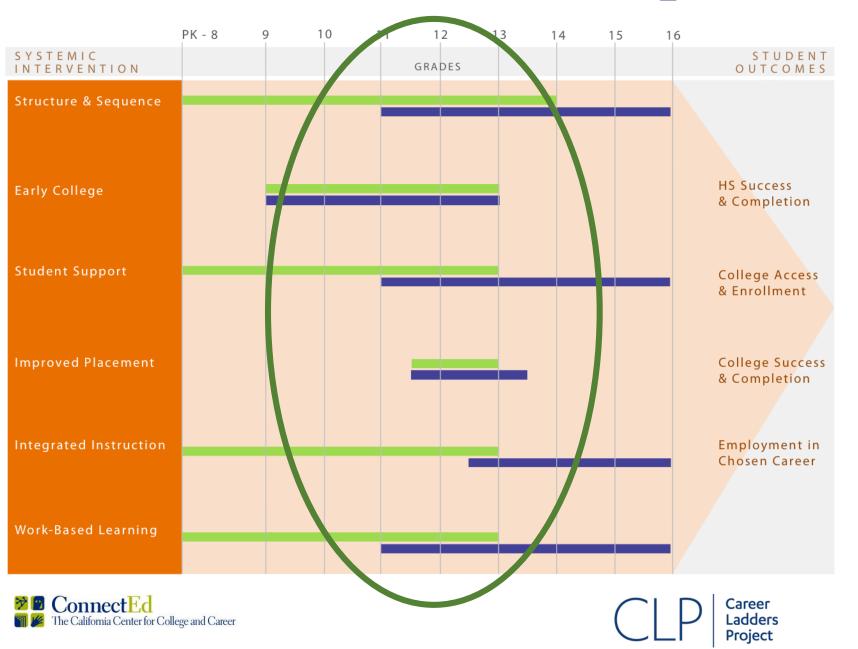
- Include on-ramps or bridges for youth or adults with multiple barriers to post-secondary attainment and/or employment.
- Span the **entire range of programs**, from entry level intensive "bridge" programs to certificates, degrees and transfer.
- Are **stackable** in design, nesting certificates within longer degree and transfer structures, always preparing students for the next step.
- Contextualize foundational skills to the knowledge and skills needed in broad groups of occupations or fields.
- Provide an effective framework for education and workforce development by aligning with industry needs and
 integrating resources of colleges, other educational partners, workforce agencies, social service providers and other
 stakeholders.
- Engage employers in pathway development, establishing needed competencies, worksite training, internships, and placements.
- Focus on careers in demand that provide family-sustaining wages and ongoing advancement opportunities.
- Include work based learning via credit-based and/or paid work experience, internships or service learning.
- Use and promote data and focus on continuously improving outcomes.

Career Ladders Project, High Impact Pathways. http://www.careerladdersproject.org/wp-content/uploads/2013/06/HIP_onepage_05.pdf









Pathways are a Framework for Evidence-Based Practices increasing Success and Equity

- Instructional Structure and Sequencing
- Early College Credit Opportunities
- Integrated Student Supports
- Improved Placement and Developmental Sequences
- Integrated Instruction
- Experiential Learning







Structure and Sequence

- Default or Recommended Sequences
 - Tied to competencies of profession and field
- Stackable Certificates and Degrees
 - Nesting certificates within longer degree and transfer structures, always preparing students for the next step
- Multiple Entry and Exit Points
- Span entire Pathway (K12/AE Bridge to Degree)
- Informed and continuously improved by data







Early College Credit Opportunities

- Early College Credit
 - Articulation
 - Credit by Exam
 - Concurrent Enrollment
 - Dual Enrollment
- On-Ramps and Bridges
 - K-12
 - Adult Education
- Focus
 - Early Career and College Exploration
 - Developmental and Credit Recovery







Early College Credit

Dual Enrollment benefits students facing multiple barriers:

- CTE program students benefit from dual enrollment participation. (Karp, et al., 2007; Rodriguez, Hughes, & Belfield, 2012; Struhl & Vargas, 2012)
- Male students may benefit more from participation than other sub-groups. (Karp et al., 2007)
- Low-income, first-generation and academically "at risk" students benefit from participation. (Rodriguez, Hughes, & Belfield, 2012; An, 2013; Struhl & Vargas, 2012)
- Some studies find that they do so to a larger extent than other student groups. (Rodriguez, Hughes, & Belfield, 2012; An, 2013; Struhl & Vargas, 2012)





Integrated Student Supports

- Academic Supports
 - Instructional
 - Counseling
- Non-Academic Supports
 - Social
 - Economic

When counseling resources are not part of classroom requirements or otherwise integrated into students' educational experience, that the first generation and minority community college students who are most in need of accessing career counseling resources are least likely to approach them. (Karp et al 2011; Cox 2008).





Improved Placement and Developmental Sequence

- Multiple Measures
 - High School GPA
 - Guided Self-Placement
- Improved Developmental Education Sequences
 - Acceleration
 - Co-Requisite

Two thirds of students nationally and in CA are placed in remediation. A third could have succeeded if they were placed directly in college level courses. (Scott-Clayton, Crosta & Belfield 2012)





Integrated Instruction

- Contextualized Teaching and Learning
- Project-Based Learning
- Team Teaching/Co Teaching
- Models:
 - Washington's Integrated Basic Education and Skills Training Program (I-BEST)
 - Career Advancement Academies

Contextualizing basic skills education to a particular career field, in conjunction with other key CAA program elements, can contribute to: Increased basic academic skills gains - accelerated student learning, improved critical thinking skills, and problem-solving; Improved engagement and motivation; Improved progression and success in subsequent coursework; and Improved persistence in college level work, completion of college credits and a credential. (Career Ladders Project & Equal Measure)





Experiential Learning

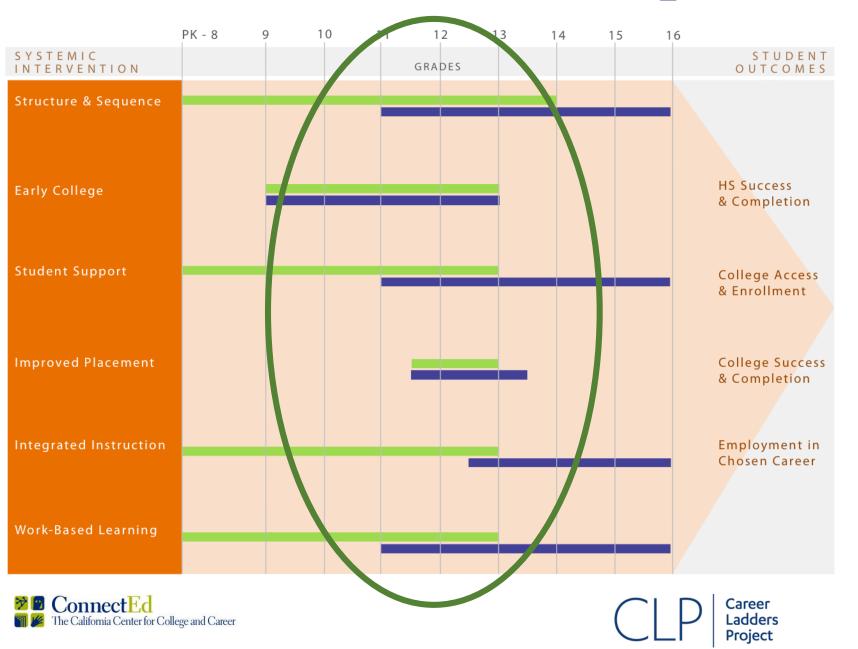
- Work-Based Learning
- Service Learning

In a seven-year study of one California workbased learning program, researchers found that minority students participating in work-based programs entered college at twice the rate of non-participating minority students and that college enrollment rates were higher for all students in the program when compared to local and state student populations (CART, 2011).











SWEET SPOT: OUR STUDENTS!







Pathway Mapping







Rapidly Making Visible the Invisible: Gold in our Gaps!









What is Pathway Mapping?

- Powerful **process** to create a clearer/bigger picture of the pathway which allows educators to identify, align, and strengthen pathways across systems
- A way to communicate the benefits of pathway education to all stakeholder
 - Including program of study, transitions, post sec. completion, WBL & industry engagement.
- Identify gaps to inform action and leverage resources/initiative (i.e. Perkins, SSSP, Equity, SWF, AEBG)







What Pathway Mapping is NOT

- Course content
- Alone, pathway mapping won't make any changes to program





Questions?







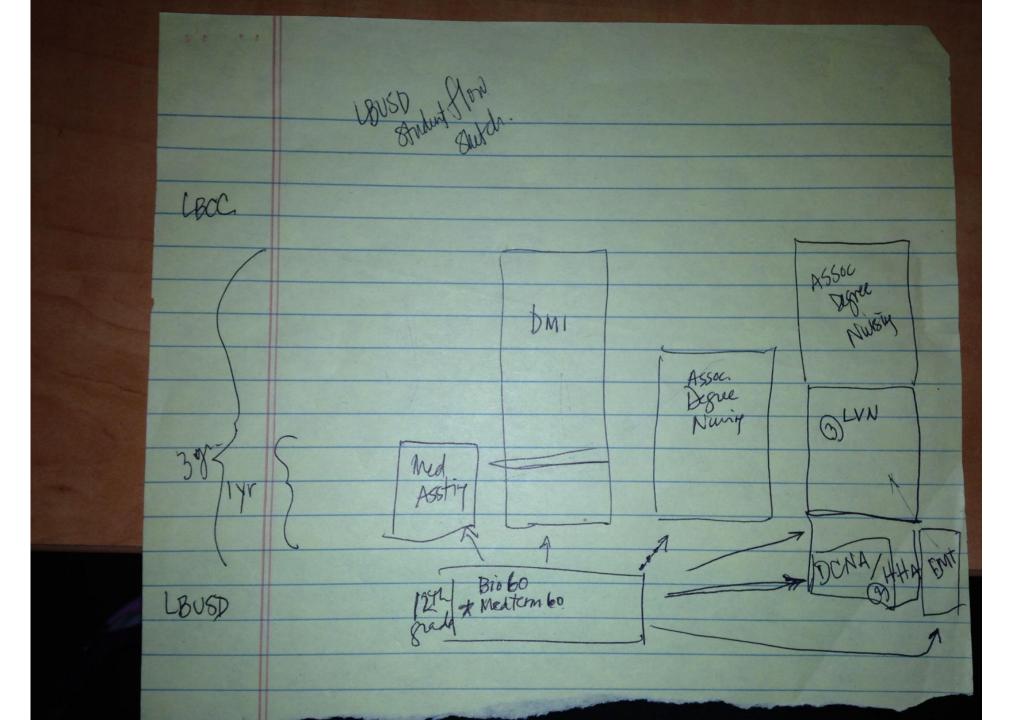
Okay mapping sounds interesting, but how?



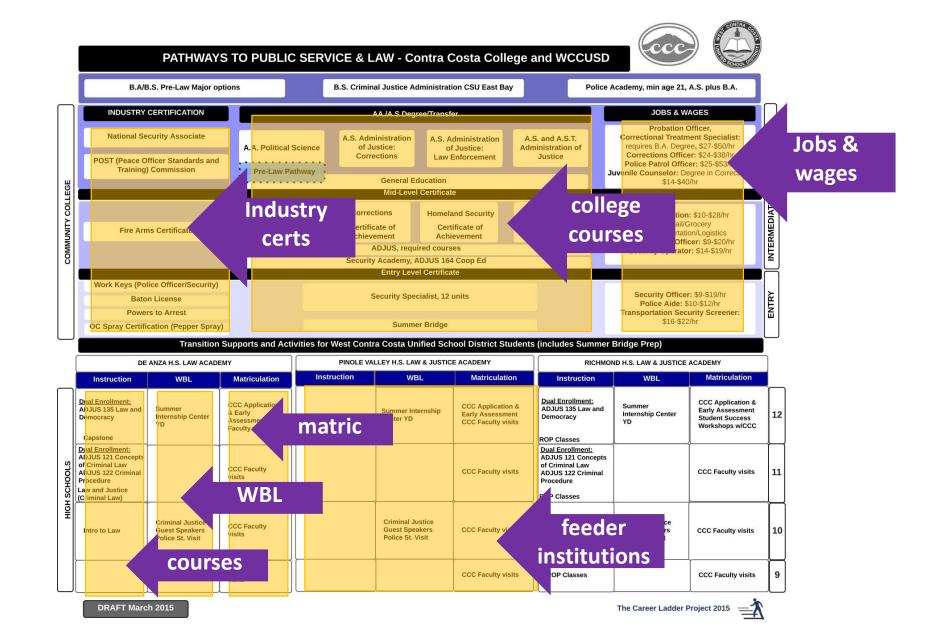




B LONG BEACH CITY COLLEGE



Mapping all Evidence-Based Practices of Pathways



Mapping Pathway Practices

span

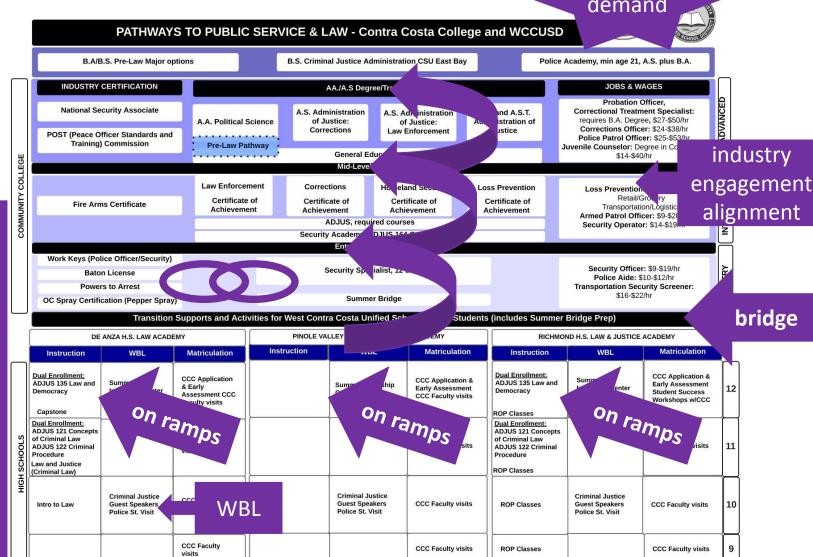
entire

length

of

pathway



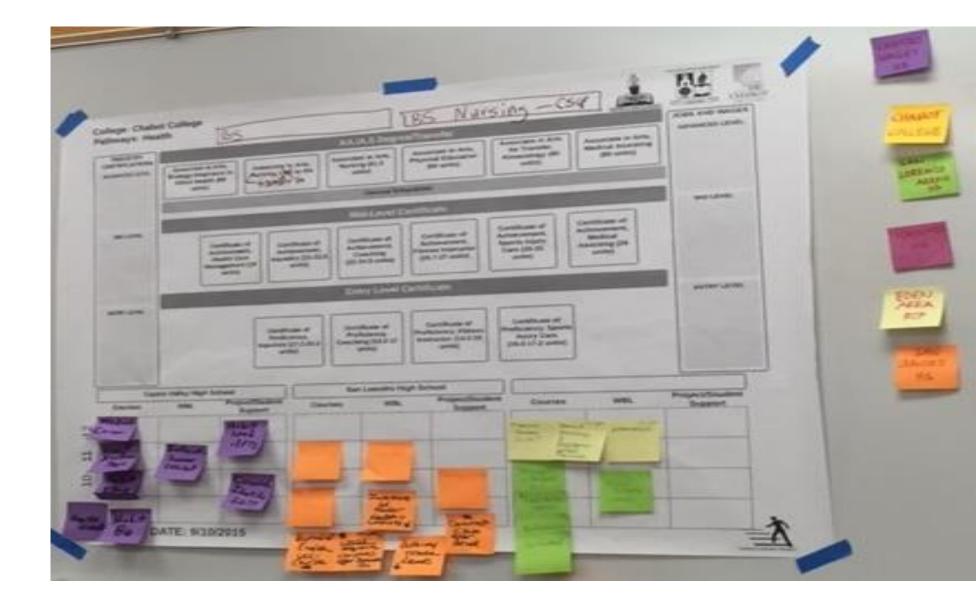


DRAFT March 2015

The Career Ladder Project 2015



RapidMapping









Mapping Step-by-Step:

- 1. Use post it notes and update or edit what is on the draft pathway maps for your pathways. Include curriculum, labor market information (jobs and wages), industry certifications, as well as integrated and experiential learning.
- 2. Mark any early college credit (dual enrollment or articulation), non-credit connections, 4-year connections, as well as bridges, and on-ramps.
- 3. Use stars to indicate what is in progress or aspirational.
- 4. Please be prepared to share out briefly your map of what you currently have in place.





Mapping Best Practices: From the Cartographers

- Do not use pens, pencils or highlighters. Black felt tip pens (not sharpies) are best.
- Encourage people not to stack post-it notes on top of each other, if we are making edits from a picture it is impossible to see what is underneath something.
- Help mappers avoid the acronym trap.
- Encourage mappers to add notations but make sure they include them in a legend.
 - For example- if circles, stars, triangles are being used ask that they are included in the legend with a definition/explanation.
- If you can't read something, we can't read it. Please re-write when necessary.







Transition to Breakout Rooms







Breakout Room Gallery Walk

- Pathway teams, please share out:
 - What is currently in place?
 - What you aspire to do?
 - What support is needed or opportunities to partner?
- Clarifying questions?





Now, Your Action Plan!









ACTION PLAN: BUSINESS



ACTION STEPS	RESPONSIBILITIES	TIMELINE	RESOURCES	POTENTIAL BARRIERS	COMMUNICATIONS PLAN
What will be done?	Who will do it?	By when? (Day/Month)	A. Resources Available B. Resources Needed (financial, human, political & other)	A. What might get in the way based on the respective organization's POV? B. How will these be addressed?	Who is involved? What methods? How often?

ACTION PLANNING

With your team:

- Starting with one priority area draft action plan
 - Tasks/Actions
 - Responsible folks
 - Timeline
 - Resources







RAPID MAPPING SHARE OUT

Please return to the main room and be prepared to share out:

- Ah-Has!
- Uh-ohs!
- Next Steps







Transition to Main Room: Dinner!







RapidMapping Share Out

Please select a team member to share out:

- Ah Has!
- Uh ohs!
- Next Steps/Action Plan







Next Steps?







Completing your Map, with CLP Support!







You are NOT alone!

Each pathway will have individual support to complete your map by 4/17

- Olivia
- Peter
- Mike

Please look out for two emails

- Scheduling
- Basecamp









Mapping Community of Practice Tools

Lucidchart is a web-based diagramming software which allows users to collaborate and work together in real time to create flowcharts, organizational charts, website wireframes, UML designs, mind maps, software prototypes, and many other diagram types.

Basecamp 3.0 is a web-based project management and collaboration tool. To-dos, files, messages, schedules, and milestones are all in one place instead of having stuff scattered all over the place — strewn across separate products, lost in inboxes, or scrawled on stickies or notepads.









Mapping to Action!







Moving Together to Action, and Beyond

- Map and an Action Plan
 - Alignment
 - Outreach, In Reach
 - Early College Credit
 - Integrated Student Supports
 - Work-Based Learning
 - Resource Development
- Sharing! Rapid Mapping Toolkit and Train-the-Trainer







Local Alignment

Long Beach Allied Health Pathways: Health Information **Technology Recommendations**

Health Information Technology, AS Cypress College

Early Credit Opportunities at LBCC

- CIS 111 C Computer Information Systems (3 units)
- HS 145 C Survey of Medical Terminology (3 units)
- BIOL 210 C Anatomy and Physiology (5 units)
- HI 114 C Beginning ICD-10 Coding (3 units)

Bachelor of Art, CAL State Long Beach (MAJOR IN HEALTH CARE ADMINISTRATION/MINOR IN HEALTH INFORMATION SYSTEMS)

Early Credit Opportunities at LBCC and LBUSD 1

- IS 233 Introduction to Computer Systems and Applications** (or equivalent)
- HSC 150 Medical Terminology** (1 unit)
- SOC 250** or PSY 210** or STAT 108**
- BIOL 205 human biology** (or equivalent)
- Computer proficiency**
- IS 380 Database Management**

Health Information Management, Bachelors Degree San Diego Mesa College







Health Information Technology, AS Saddleback College

Early Credit Opportunities at LBCC

- CIM 112 Microsoft Office (3 units)
- HSC 201 Medical Terminology (3 units)
- HSC 277 Human Body Fundamentals (3 units)
- HIT 220/221 ICD Procedural Coding/Diagnostic Coding (4 units)

Long Beach City College

Industry Credentials

American Health Information Management Assoc. (AHIMA)

- Certified Coding Assoc.
- (CCA) Certified Coding
- Specialist (CCS) Certified Coding Specialist-Physican Based (CCS-P)

American Assoc. of Professional Coding

Certified Professional Biller (CPB)

HEALTH INFORMATION BILLING AND CODING, Certificate of Achievement (23 units)

- AH 60 Medical Terminology* (3 units)
- BIO 60 Human Biology* 1 (4 units) OR ANAT 41 Anatomy & Physiology* (5 units)
- COSA 10 Microsoft Word for Windows* (4 units)
- AH 276 Health Care Law (1 unit)
- MA 290 Medical Insurance Billing (3 units)
- MA XXX Medical Coding (to be developed) (3 units)

HEALTH INFORMATION SYSTEMS SUPPORT. Certificate of Achievement (23-24 units)

COS Core Classes -ICT Statewide Curriculum

- COSN 5 Computer Technician Hardware Basics (4 units)
- COSA 50 Introduction to IT Concepts & 1 Applications (4 units)
- COSS 271 Networking Security Fundamentals (3
- COSN 10 Networking Fundamentals (4 units)

Health IT Specific Courses

- AH 276 Health Care Law (1 unit)
- AH 60 Medical Terminology* (3 units) 1
- BIO 60 Human Biology* 1 (4 units) 1

OR ANAT 41 Anatomy & Physiology* (5 units)

Credentials

COMPTIA

- ▶ A+ Certification
- Net+ Certification
- Security+ Certification

Microsoft Technology Associate (MTA)

Health Informatics (HI) is a science that defines how health information is technically captured, transmitted and utilized. Health informatics focuses on information systems, informatics principles, and information technology as it is applied to the continuum of healthcare delivery.

**Early CSULB Course Opportunities *Early LBCC College Credit Opportunities Long Beach Unified School District

- AH 60 Medical Terminology* (3 units) COSA 10 Microsoft Word for Windows* (4 units)
- BIO 60 Human Biology* 1 (4 units)
- OR ANAT 41 Anatomy & Physiology* (5 units)
- COSN 5 Computer Technician Hardware Basics (4 units)
 - COSN 10 Networking Fundamentals (4 units)

Health Information Technology refers to the framework used to manage health information and the exchange of health information in a digital format. Health IT is focused on the technical side focused on hardware and software. They are usually professionals from information technology backgrounds.



DRAFT DATE: 5/25/2016 Prepared for Long Beach City College by Career Ladders Project

Regional Curriculum Alignment

East Bay Advanced Biotechnology Partnership

that courses offered by other California community colleges are

comparable in content and scope to courses offered on their own

campuses, regardless of their unique titles or local course number.

Biotechnology Regional Community College Offerings

Merritt College

Ohlone College

DBS Programs

Optional Pathways Solano College



This project is funded by a U.S. Department of Labor Trade Adjustment Assistance Community College Career

awarded under the Trade Adjustment Assistance Community College and Career Training (TAACCCT) Grants, as

Training grant to the East Bay. This product's cost to produce was \$4,203 (0.76% of project) from a grant



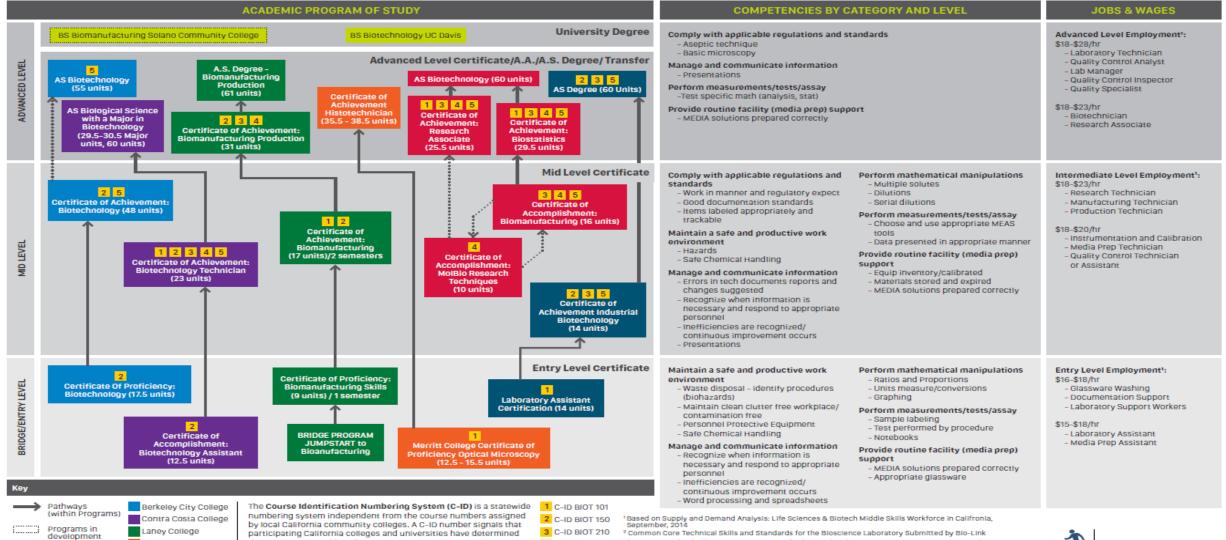












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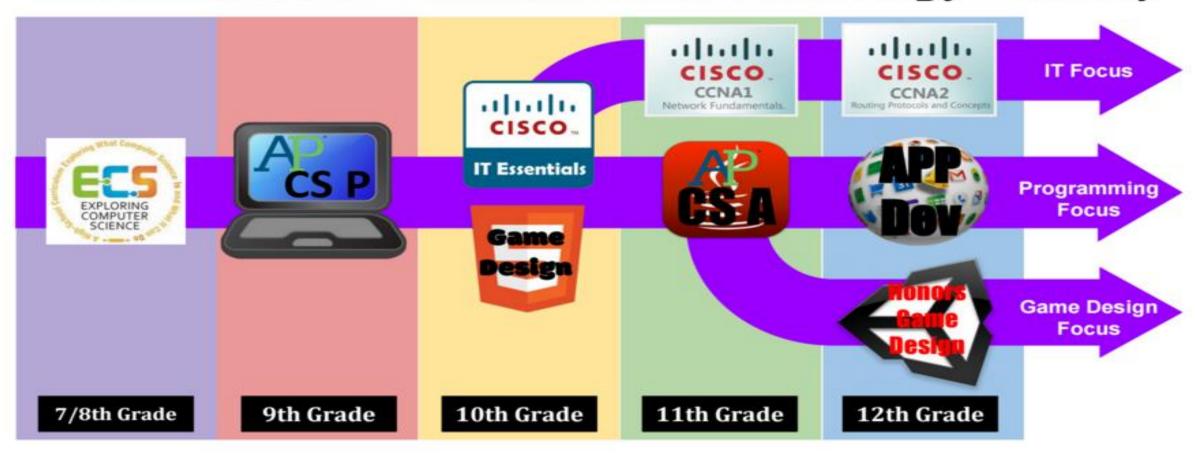
5 C-ID BIOT 230

Career Ladders Project

implemented by the U.S. Department of Labor's Employment and Training Administration. Design it-Build it-Ship it (DBS) is an equal opportunity employer / program and auxiliary aids and services are available upon request to

Outreach! And, in reach!

Information and Communication Technology Pathway





Early College Credit Opportunities



STAY UPDATED WITH CAREER LADDERS

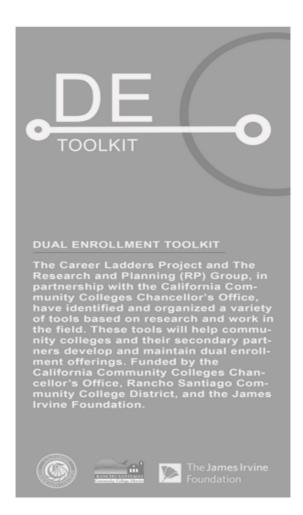








HOME INITIATIVES & PROGRAMS RESEARCH & RESOURCES CLP VIDEOS CLP LIBRARY COMMUNITIES OF PRACTICE ABOUT US



— DUAL ENROLLMENT TOOLKIT: A RESOURCE FOR COMMUNITY COLLEGES AND SCHOOL DISTRICT PARTNERS

The Dual Enrollment Toolkit is a resource for secondary and community college partners. This resource will highlight and describe promising practices related to providing historically underrepresented high school students with opportunities to earn college credits at California Community Colleges (CCC) while they complete the requirements for their high school diplomas. The intent is to provide specific, concrete guidance and evidence to interested college administrators, faculty and staff who are planning to build partnerships with K12 districts to support dual enrollment efforts for this target population on their campuses and/or within their districts.

- · Letter from CCCCO
- Dual Enrollment and Assembly Bill 288 (CCAP) Legal Opinion 16-02
- AB 288 College and Career Access Pathways (CCAP) Partnership Agreement Apportionment Eligibility Checklist for Community College Districts
- FAQ
- Decision Tree
- Comparison on Types of Agreements AB 288 vs non-AB 288
- · Instructor Qualifications Conversation Guide
- Instructional Minutes Interview with CDE's Wendi McCaskill

Resources:

- Legislation
- CCCCO Legal Opinion
- College Documents
- Research

Integrated Student Supports



STAY UPDATED WITH CAREER LADDERS









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CACN CURRENT ENGAGEMENTS

Diablo Gateways to Innovation

- CALIFORNIA COUNSELING NETWORK (CACN)

Under the guidance and support of the Career Ladders Project, the California Counseling Network (CaCN) provides a professional forum for collaboration and innovation among counselors and student support colleagues serving students in secondary and post-secondary career pathways. CaCN functions as a platform for dialogue, resource sharing, and dissemination of effective practices with the goal of strengthening the impact of counseling on students' academic and career success. CaCN furthers the objectives of the California Career Pathways Trust (CPT) and other education reform initiatives by fostering partnerships and improving intersegmental alignment across systems which support transitions from high school to career. Expertise and collaboration from counseling and student-direct support systems are useful resources for CPT initiatives.

PLEASE CLICK HERE TO BECOME A MEMBER OF THE CALIFORNIA COUNSELING NETWORK

RESOURCES:

Career Ladders Project Resources:

<u>DBS Community of Practice</u> <u>Improved Placement</u> High School to Community College Transition Tools

Counseling Articles:

The Role of Counseling in an Era of College Readiness
J. Lee, J. Mishook
Annenberg Institute for School
March 21012

Pathway Articles:

The Pursuit of Pathways: Combining Rigorous Academics with Career Pathways R.B. Schwartz

American Educator 2014

High Impact Pathways have integrated student supports!

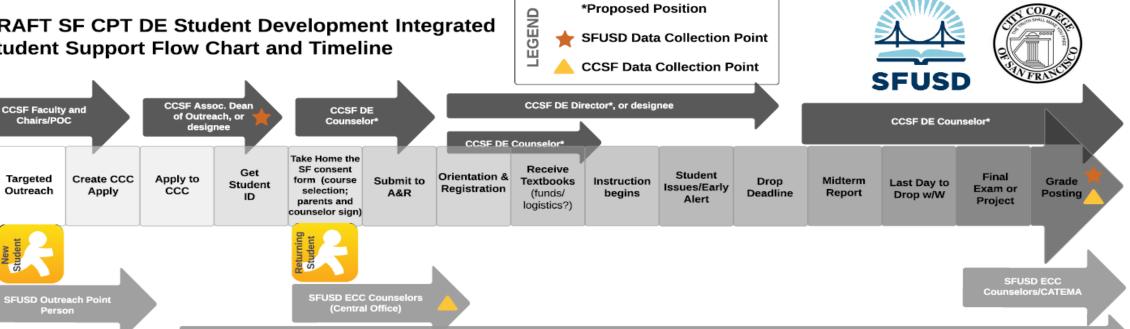
Counseling and Student Support faculty and staff can, and need, to help!

California Counseling
Network (CaCN), a
community of practice of K-14
counselors is working statewide to gather and share
emerging practice for
colleges integrating
counseling and student
support services with
mapping work.



DRAFT SF CPT DE Student Development Integrated Student Support Flow Chart and Timeline

SFUSD DE Program Coordinator



Fall/Summer (and Summer Bridge) start (more flexible)														
Outreach	CCC Apply	Receive Username and Password	CCSF Application	Receive Student ID#	Consent Form	Submit to A&R	Orientation and Course Registration	Textbook Distribution Instruction	Early Alert Drop Deadline	Midterm Report	Last Day to Drop w/W	Final Exam	Grade	SFUSD Grade Entry onto h.s. transcript (optional)
		A	PR/MA	Y			JUL/AUG	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB
Spring Start														
Outreach	CCC Apply	Receive Username and Password	Application	Receive Student D#	Consent Form	Submit to A&R	Orientation and Course Registration	Textbook Distribution	Early Alert Drop Deadline	Midterm Report	Last Day to Drop w/W	Final Exam	Grade	SFUSD Grade Entry onto h.s. transcript (optional)
		N	NOV/DE	С			DEC/JAN	JAN	FEB	MAR	APR	MAY	JUN	AUG

Experiencial Learning



EB CPT Work-based Learning Continuum Learning Outcomes

Career Awareness

Learning ABOUT work.

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

Learning Outcomes:

Describe a variety of career pathway options.

Describe how basic skills such as math and reading are used in the workplace

Explain the importance of post-secondary education and training following high school graduation

Adapted from the Linked Learning Work-Based Learning Continuum developed by the Linked Learning Alliance, available at: http://linkedlearning.org/linked-learning-inaction/work-based-learning/

Career Exploration

Learning ABOUT work.

Explore career options and postsecondary requirements to motivate and inform decisionmaking in high school and postsecondary education.

Learning Outcomes:

Explain basic knowledge and skills required for success in college and careers

Connect individual skills and interests to variety of career options

Connect the pathway experience to the workplace experience

Describe how post-secondary education connects to a career path of interest

Describe and use multiple resources to find jobs

Explain the options available through and importance of post-secondary education

Career Preparation

Learning THROUGH work.

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

Learning Outcomes:

Explain how the workplace functions and the skills required to succeed

Demonstrate ability to apply for employment (write a resume, interview, complete application)

Demonstrate appropriate business dress, behavior and etiquette

Describe a workplace experience, the skills required to succeed

Explain the elements and importance of workplace safety

Demonstrate general work-related skills including collaboration, effective communication, creativity, critical thinking and taking initiative

Career Training

Learning FOR work.

Train for employment and/or postsecondary education in a specific range of occupations.

Learning Outcomes:

Demonstrate knowledge AND skills specific to employment at specific site in line with specific industry standards

Develop an informed, detailed plan for career path through postsecondary and beyond

Utilize resources available at job site, and at post-secondary institution to support individual career plan

Complete clinical or apprenticeship experience as needed for full employment in career field

Explain work history and career path to others, in and outside of industry of choice

Sharing! Rapid Mapping & Train-the-Trainer



Career Ladders Project and ConnectED partner across the state with K-16 communities!

Rapid Mapping Tool Kit

- Pre-work Support
- Agenda
- PowerPoint
- Handouts
- Pre-Filled Map Template

Train-the-Trainer

- K-14/16 Faculty and Staff
- Key Talent







Process Check, Next Steps, and Closing







Stipends, Reflection, and Feedback

Stipends

• Please complete W9 and photo release forms

Reflections and Feedback

Please complete evaluation







