

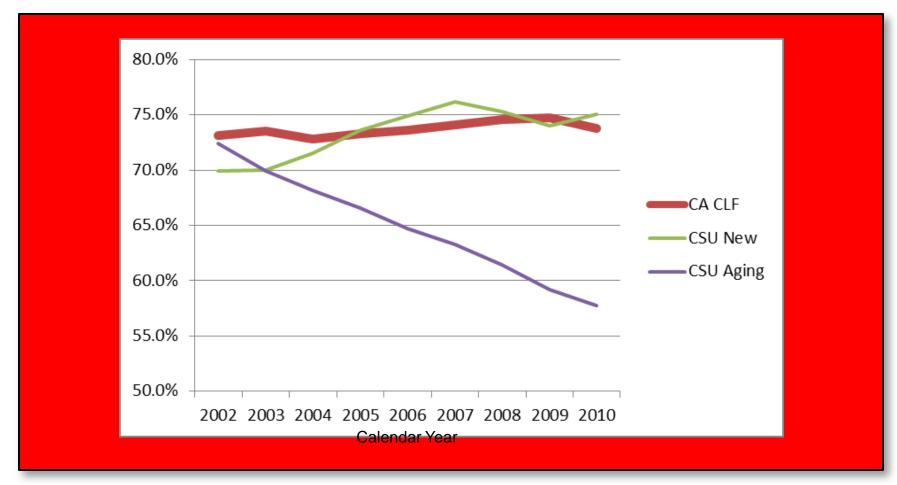
TRACKING WAGES FOR CSU BACCALAUREATE RECIPIENTS

Preliminary Results from the EDD Match Process

Philip Garcia, Analytic Studies pgarcia@calstate.edu CSU Office of the Chancellor

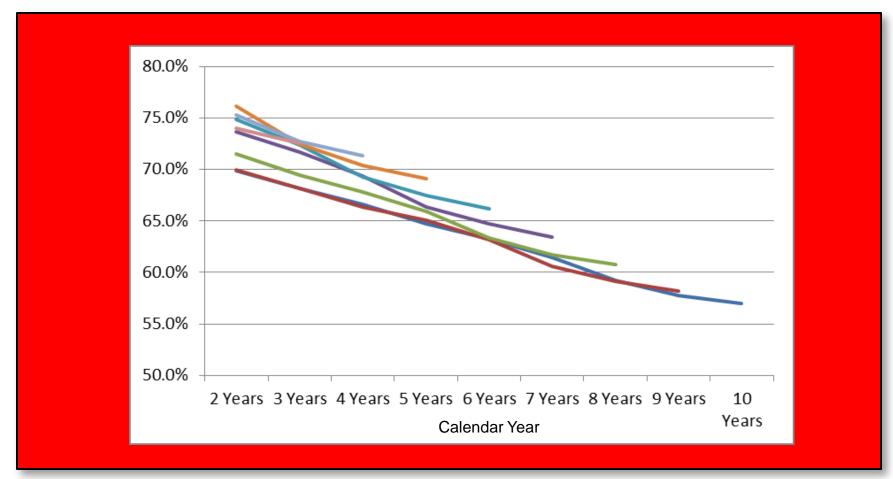


Selected Match Rates from the EDD Data Base



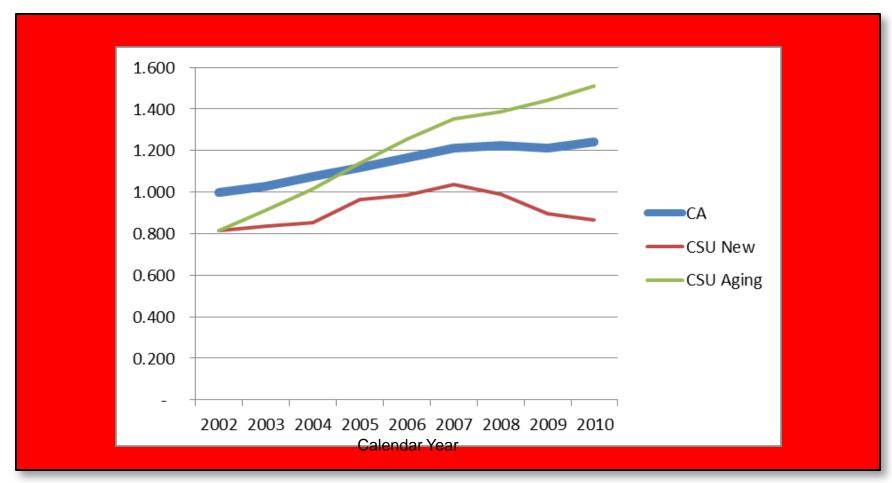


Time Series Match Rates for Successive Classes



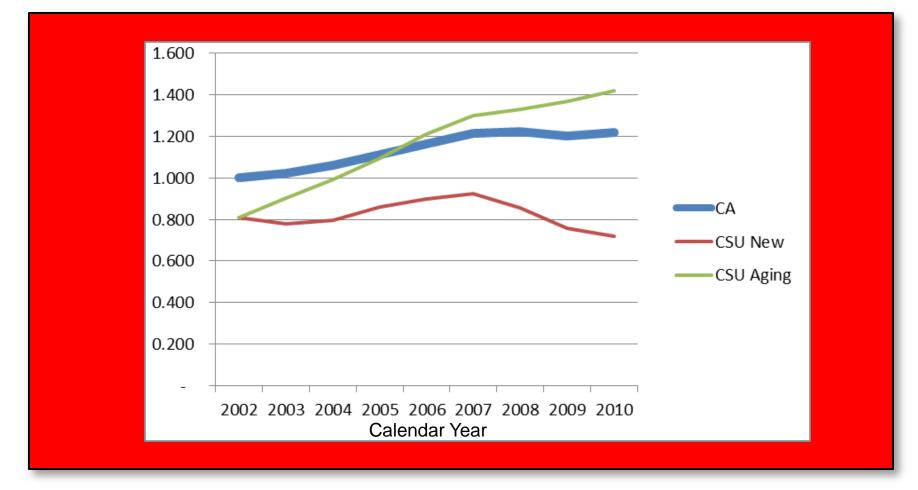


Indexed Mean Wages for Selected Classes



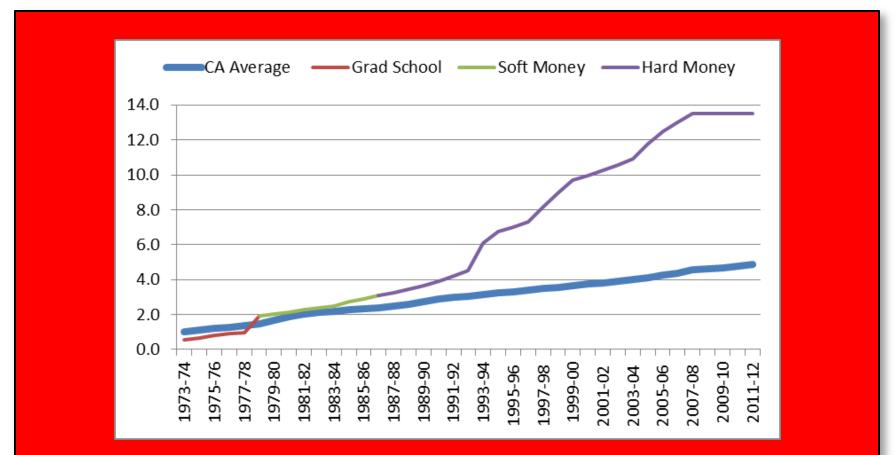


Indexed Median Wages for Selected Classes



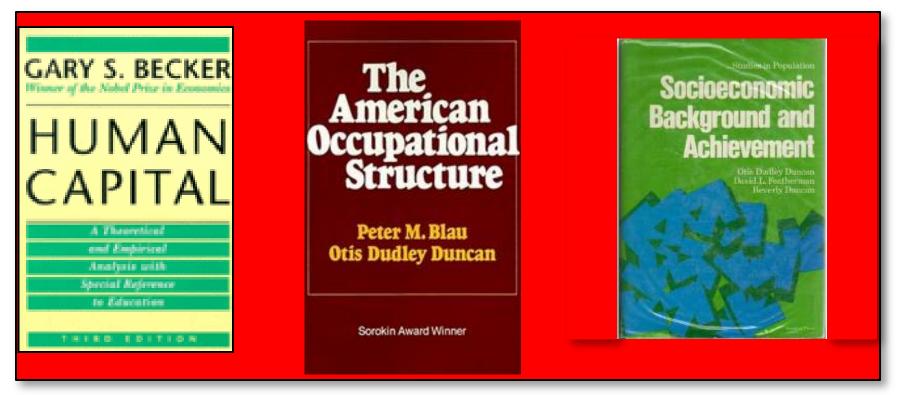


The Descriptive Wage History of Dr. Phil





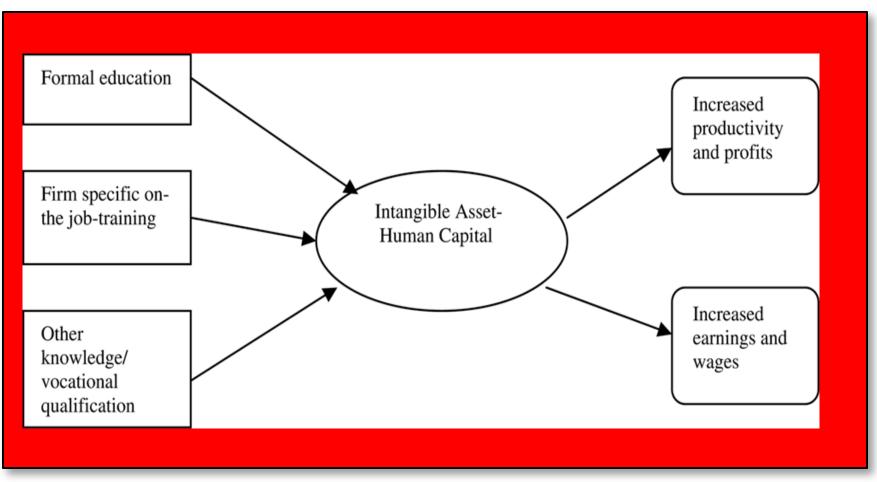
How Do You Get Beyond Description?



You need to collect much more data than are housed in IR files.

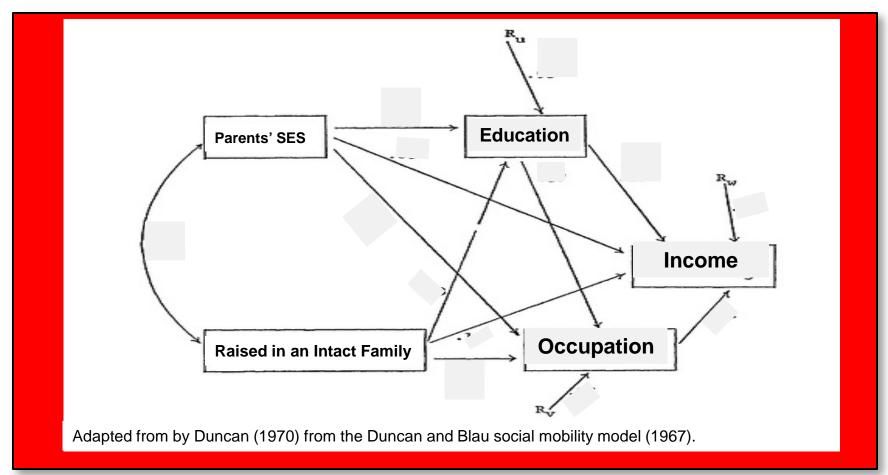


Human Capital Wage Model





Inter-generational Income Model





Other Factors Currently Used by Economists to Assess Wage Differentials

Nativity Years in US Years in Labor Force Job Tenure Industrial Sector Geographic Region Local Cost of Living





Philip Garcia, Analytic Studies

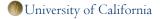
pgarcia@calstate.edu CSU Office of the Chancellor

UC Alumni Employment Outcomes

Reflections On Year One of EDD Wage Data

Chris Furgiuele – UCOP Institutional Research

November 22, 2013 CAIR Annual Conference Napa, CA



Last Year

- Presented preliminary UC results at CAIR

 Five different earnings measures
- Earnings results largely reflected typical earnings trajectory of college graduates
 - \$40K/\$60K/\$80K at 2/5/10 years post-BA
- Cohort Hit Rates 60% to 75%
- Large apparent recessionary effect on data
- Lots of methodological loose ends

BA Degree Cohort Hit Rate

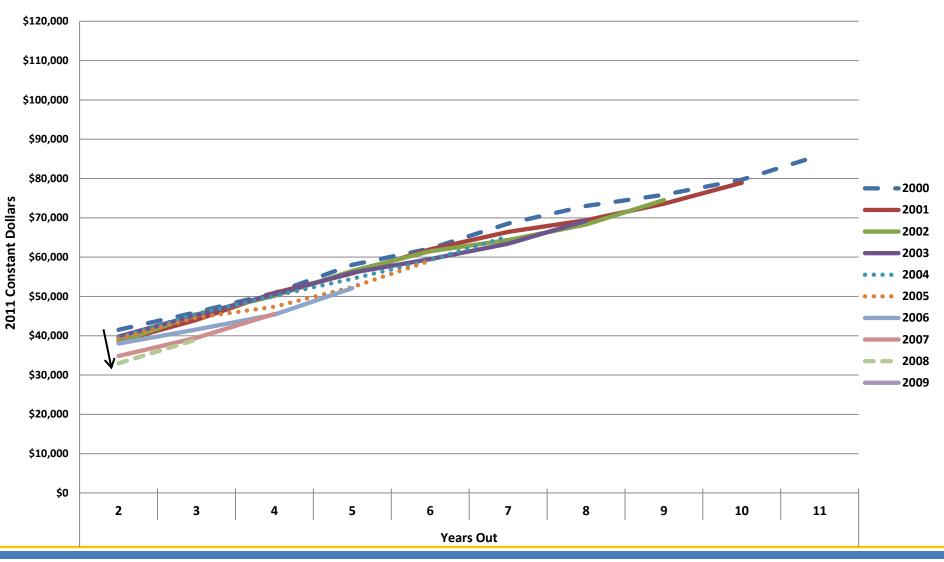
Hit Rate by Years After Degree Attainment

Cohort	Graduates	2 years	3 years	4 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years
2000	32,241	76%	72%	70%	70%	69%	68%	66%	64%	63%	62%
2001	34,267	75%	72%	70%	70%	69%	68%	65%	64%	63%	
2002	36,599	76%	72%	70%	70%	69%	66%	65%	64%		
2003	38,001	76%	73%	71%	70%	67%	66%	65%			
2004	40,241	77%	73%	70%	67%	66%	65%				
2005	41,024	77%	72%	67%	66%	65%					
2006	40,908	76%	69%	66%	65%						
2007	41,765	72%	67%	65%							
2008	41,922	69%	66%								
2009	43,962	69%									

Source: UCOP Corporate Student System and EDD Quarterly Wage Data

Initial Post-Graduate Average Earnings

Estimated Average Annual Earnings by Graduating Cohort Over Time

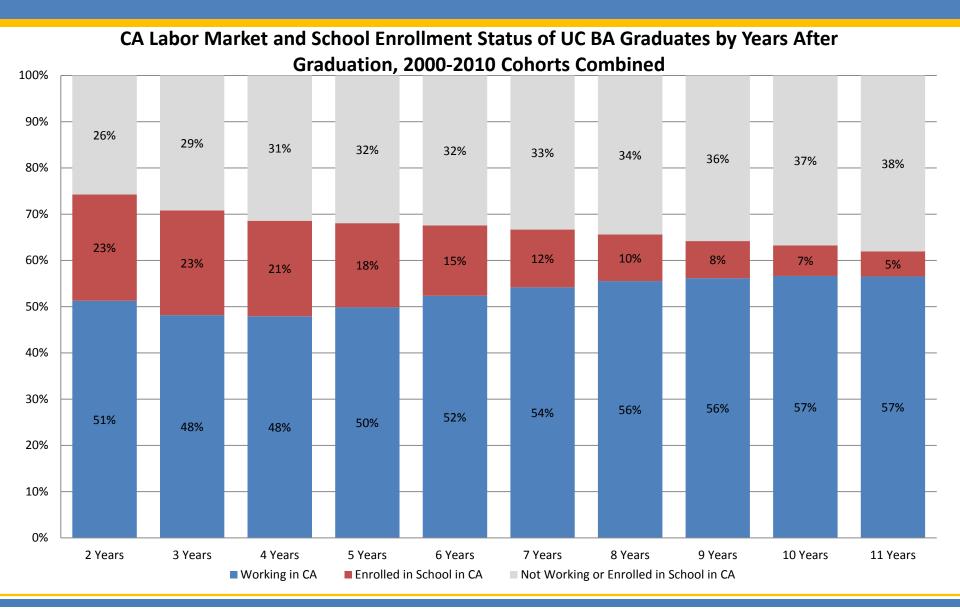


University of California

Since Last Year

- Refined results to account for post-UC school enrollment (NSC Match)
- Acquired additional year of earnings data (through 2012)
- Focus on two earnings measures (unadjusted and annualized)
- Focusing more on hit rates and industry of employment and less on earnings

Increasing Presence in CA Labor Market

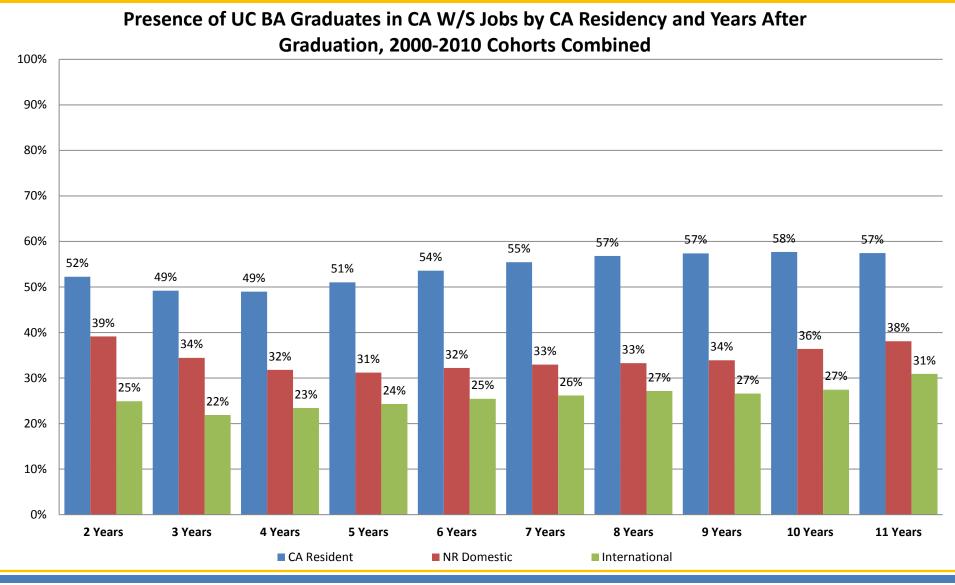


Difference Between Raw and Adjusted Earnings Declines Over Time

Preliminary Estimated Average Earnings for UC Graduates Working in California by Earnings Measure and Years After Graduation, 2000-2010 Cohorts Combined \$100,000 100% \$94,553 \$95,000 \$90,000 90% \$85,711 \$85,000 \$80,464 \$85,598 \$80,000 80% \$75,790 \$75,000 \$71,642 \$78,606 \$70,000 \$73,759 70% \$66,471 \$69,304 \$65,000 \$60,922 \$64,973 \$60,000 60% 2012 Constant Dollars \$54,667 \$59,782 \$55,000 \$48,966 \$50,000 \$53,657 50% \$42,246 \$45,000 \$47.678 \$40,000 40% \$41,589 \$35.000 \$34,184 \$30.000 30% \$25.000 \$20,000 20% 24% \$15,000 18% 15% \$10.000 10% 14% 11% 10% 10% \$5,000 9% 9% 9% \$0 0% 2 Years 3 Years 4 Years 5 Years 6 Years 7 Years 8 Years 9 Years 10 Years 11 Years Years After Graduation Adjusted Earnings Percent Difference Between Measures

University of California

A Significant Proportion of Nonresident UG Remain Employed in CA



University of California

Major Challenges

- # Earnings Measures >= # Researchers
- Hit rates mask what graduates are doing
- Earnings variation by major, campus create interpretation challenges
- Outliers matter (e.g. professional athletes)
- More of a lifetime earnings story for 4-year university graduates (hard to tell with limited data)
- Heavy recession/cyclical and local economy on earnings data
- EDD data may not add much value over alumni surveys

Going Forward

• Presented systemwide and campus results to UC leadership

• Continuing conversation with leadership on if/how to move forward with release

• Federal Scorecard?

Labor Market Resources: Practices and Uses for Higher Education

Patrick Perry Vice Chancellor of Technology, Research & Information Systems California Community Colleges



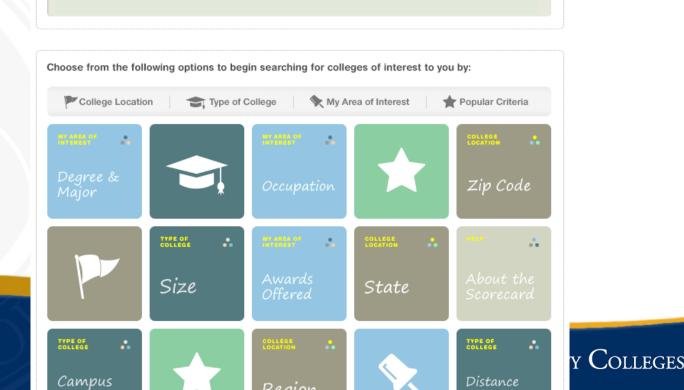
The Big Push



Search for a college by name ...

College Scorecards in the U.S. Department of Education's College Affordability and Transparency Center make it easier for you to search for a college that is a good fit for you. You can use the College Scorecard to find out more about a college's affordability and value so you can make more informed decisions about which college to attend.

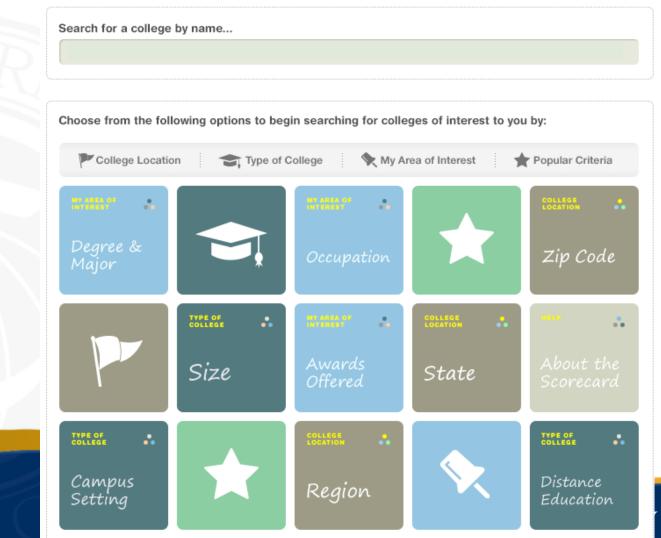
To start, enter the name of a college of interest to you or select factors that are important in your college search. You can find scorecards for colleges based on factors such as programs or majors offered, location, and enrollment size.



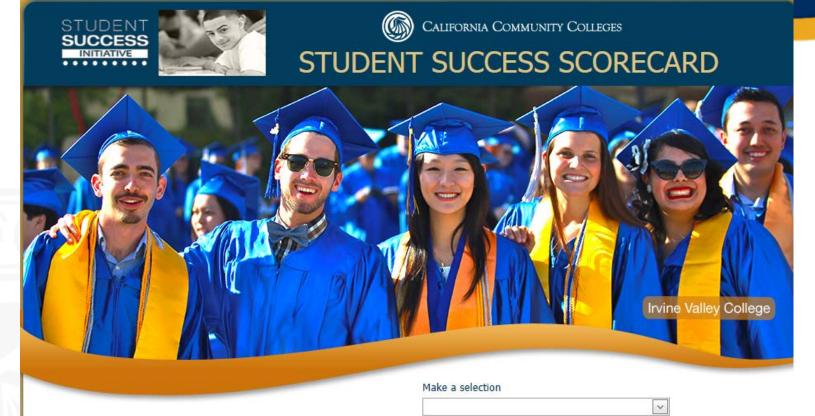


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Colleges



Student Success Scorecard

In its commitment to increase transfer and degree and certificate attainment, the California Community Colleges Board of Governors has established a performance measurement system that tracks student success at all 112 community colleges.

This scorecard represents an unprecedented level of transparency and accountability on student progress and success metrics in public higher education in the United States. The data available in this scorecard tell how well colleges are doing in remedial instruction, job training programs, retention of students and graduation and completion rates.

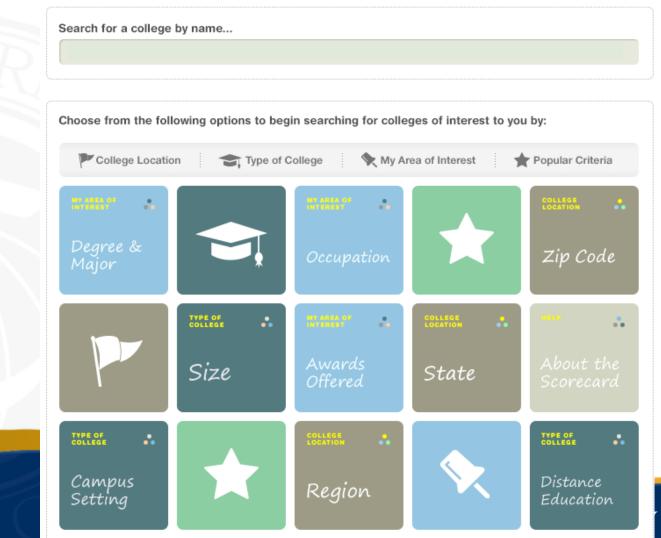
With data reported by gender, age and ethnicity, colleges, students and the public can also better determine if colleges are narrowing achievement gaps, which is vitally important for our students and our state's economy.

Please contact us at scorecard@cccco.edu if you have questions about the data or <u>documentation</u> used to develop the Student Success Scorecard.

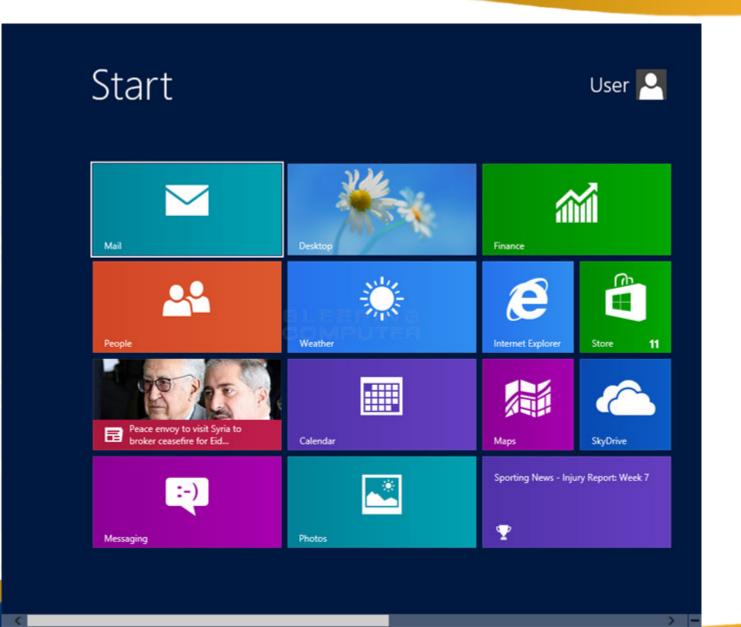


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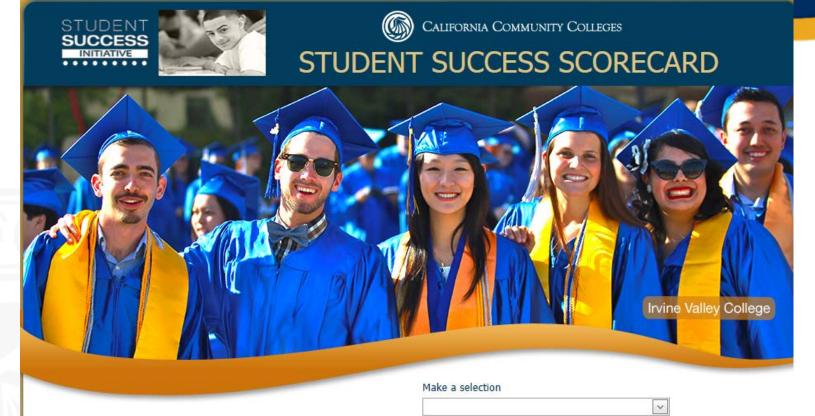


Colleges





California Community Colleges



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Due to the lapse in federal government funding, this website is not available. We sincerely regret this inconvenience.

For information about available government services, visit USA.gov.

Este sitio web no se está disponible durante el cierre del Gobierno. Lamentamos profundamente las molestias que esto pueda causar.

Visite GobiernoUSA.gov para informarse sobre los servicios gubernamentales disponibles durante el cierre del Gobierno.





Federal Scorecard

- Real cost
- Graduation rates
- Student debt

- Employment rate
- Graduates' earning potential



Wage Data

- This data can give you:
 - Employment (but not cleanly; some % of records are not found)
 - Salaries by degree
 - Salary growth over time by degree
 - Employment by industry (snapshot)
 - Movement from/to various industries (over time)
 - Types of employers that employ certain degrees
 - Regional differences in wage for same degree



You can get wage data, too

- Spencer Wong @EDD
 (Spencer.Wong@EDD.ca.gov)
- You send SSN
- You get back summary (they wont give you quarterly wage records)
- If you segment your SSN's up properly, you can get what you need



Salary Surfer: Student-Centric



Select a Program of Study

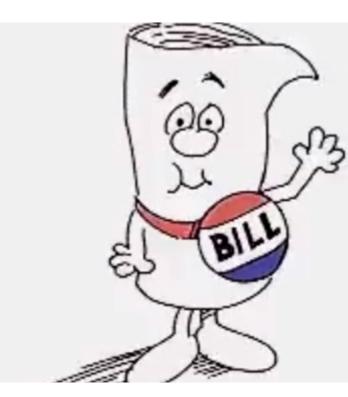
~

Salary Surfer

As students and their families make important decisions about investing their time and money in pursuing a college education, the California Community Colleges Chancellor's Office is making available for the first time comparative information about the earnings of recent graduates who received an award in a specific program area at California community colleges.

How Did We Get This?

- We all passed a bill that makes segment offices authorized repositories of EDD wage data
- We send them SSN's
- They send us quarterly wage records





The Methodology

- Take all award recipients across 5 years
- Remove those still enrolled or transferred
- Match with EDD wage records
- Slice median wage by TOP Code/Award Type at -2, +2, +5 years before/after award
- If n=10 wages exist, show it
- Mashup w/Program Inventory database



Salary Surfer

http://salarysurfer.cccco.edu/SalarySurfer.aspx



California Community Colleges

		М	Median Annual Salary		
Curriculum	Award Type	2 Years Before	2 Years After	5 Years After	
Administrative Medical Assisting	Certificate	\$20,981	\$29,498	\$29,698	
 Cardiovascular Technician 	Degree	\$12,298	\$62,211	\$71,841	
 Cardiovascular Technician 	Certificate	\$14,566	\$56,925	\$66,747	
Clinical Medical Assisting	Degree	\$5,312	\$23,636	N/A	
 Clinical Medical Assisting 	Certificate	\$5,946	\$26,225	\$34,374	
Dental Assistant	Degree	\$12,310	\$25,824	\$33,178	
Dental Assistant	Certificate	\$12,114	\$26,441	\$29,514	
 Dental Hygienist 	Degree	\$16,130	\$63,750	\$62,507	

College	Program Title	Program Type	
Cabrillo College	Dental Hygiene	Degree	
Cerritos College	Dental Hygienist	Degree	
Cypress College	Dental Hygiene	Degree	
Diablo Valley College	Dental Hygiene	Degree	
Foothill College	Dental Hygiene	Degree	
Fresno City College	Dental Hygiene	Degree	
Moreno Valley College	Dental Hygiene	Degree	
Dxnard College	Dental Hygiene	Degree	
Pasadena City College	DENTAL HYGIENE	Degree	
Riverside City College	Dental Hygiene	Degree	

Dental Hygienist	Certificate	\$17,885	\$68,856	\$46,585
Dental Laboratory Technician	Certificate	\$16,200	\$20,665	\$13,454
Diagnostic Medical Sonography	Degree	\$34,395	\$76,038	\$85,319
Diagnostic Medical Sonography	Certificate	\$30,019	\$62,572	\$76,604

Data Mart: Regional Differences

			Award Year 2000-2001 - 2007-2008		
			Median Wage 3 Years After Award	Total Awards	Award to Wage Match Rate
Ξ	Baker	rsfield			
		Radiologic Technology-122500			
		AA/AS Degree Recipient	\$54,542	79	95 %
Ξ	Cabril	lo			
		Radiologic Technology-122500			
		AA/AS Degree Recipient	\$78,364	87	93 %
Ξ	Canad	da			
		Radiologic Technology-122500			
		AA/AS Degree Recipient	\$85,078	53	87 %
-	Craft	on Hills			
	— F	Radiologic Technology-122500			
		AA/AS Degree Recipient	\$65,277	29	90 %
Ξ	Cypre	ass			
		Radiologic Technology-122500			
		AA/AS Degree Recipient	\$66,192	92	92 %
Ξ	Footh	hill			
		Radiologic Technology-122500			
		AA/AS Degree Recipient	\$81,231	108	94 %
•	Fresn	io City			
	— F	Radiologic Technology-122500			
		AA/AS Degree Recipient	\$67,158	175	93 %



But Wait...There's More!



Colleges

Employment by Industry: NAICS Codes 2012 NAICS Definition

T = Canadian, Mexican, and United States industries are comparable.

Search results for: 62 Number of records found: 92

- 62 Health Care and Social Assistance^T
- 621 Ambulatory Health Care Services^T
- 6211 Offices of Physicians^T
- 62111 Offices of Physicians^T
- 621111 Offices of Physicians (except Mental Health Specialists)

COLLEGES

- 621112 Offices of Physicians, Mental Health Specialists
- 6212 Offices of Dentists^T
- 62121 Offices of Dentists^T
- 621210 Offices of Dentists
- 6213 Offices of Other Health Practitioners^T
- 62131 Offices of Chiropractors^T
- 621310 Offices of Chiropractors
- 62132 Offices of Optometrists^T
- 621320 Offices of Optometrists

AS in Rad. Tech: -2 Years, NAICS-2

Years	Industry	Median_Wage	N=	Percent
-2	Health Care/Social Assistance	\$13,692	193	27.7
-2	Retail Trade	12,622	85	12.2
-2	Food Service	7,918	73	10.5
-2	Administrative Support	3,365	43	6.2
-2	Other Services	11,505	26	3.7
-2	Educational Services	7,912	26	3.7
-2	Arts, Entertainment, Recreation	8,652	25	3.6
-2	Construction	6,721	23	3.3



AS in Rad Tech: +5 Years, NAICS-2

Years	Industry	Median_Wage	N=	Percent
+5	Health Care/Social Assistance	\$69,687	689	83.8
+5	Educational Services	47,160	34	4.1
+5	Public Administration	70,438	34	4.1
+5	Administrative Support	10,053	18	2.2
+5	Professional, Scientific Svcs	29,100	17	2.1
+5	Other Services	12,533	7	0.9
+5	Food Service	13,394	4	0.5
+5	Retail Trade	14,850	3	0.4



AS in Rad Tech: +5 Years, NAICS-5

Years	Industry	Median_Wage	N=	Percent
+5	General Medical/Surgical Hospitals	\$73 <i>,</i> 451	400	48.7
+5	Offices of Physicians	73,064	205	24.9
+5	Diagnostic Imaging Centers	32,668	43	5.2
+5	Executive/Legislative Offices	73,314	27	3.3
+5	Colleges and Universities	76,925	26	3.2
+5	Medical Laboratories	37,529	11	1.3
+5	Ambulatory Emergency Ctrs	9,217	6	0.7
+5	Outpatient Care Centers	55,090	4	0.5







California Community Colleges

Find A Job!

 <u>http://www.labormarketinfo.edd.ca.gov/aspd</u> <u>otnet/databrowsing/empMain.aspx?menuCho</u> <u>ice=emp</u>

 Surfer 2.0: mashup wages, industry distributions, and ability to find employers (2014 project)



The Next Frontier (for CC's): Wages of Non-completers

- Generally used in analysis of shorter-term CTE programs or course sequences
 - AKA "CTE Skills Builders"; people who enter and take 1-6 units and leave without certification
- Also appropriate for Apprenticeship sequences
- Fills out a piece of your accountability profile for those previously deemed "unsuccessful"



Single Course Wages

2 years Before 2 Years After 5 Years After 69,285 81,446 85,654





California Community Colleges

Good Uses

- Integrate into college Program Review cycle
- Make it a part of student "decision architecture" (program selection, counseling)
 - Its OK if students pick lower paying degrees...provided its full disclosure
- Use with local business/community advisement structures
- Evaluation of programmatic offerings (expansion, contraction, elimination)



Nefarious Uses

- Legislature: we'll fund (or provide finaid) for these programs, but not those
- Assuming lagging indicators of wage are leading indicators (aka Real Estate)
- Overpromotion of monetary outcome as the only outcome of value in higher ed



Final Thought

- Whose wage outcomes data do you want being seen:
 - The Feds?
 - Or
 - Your own.



California Community Colleges

Thank You!

