



California Community Colleges

Community College Pipeline Dashboard 2022 Release Webinar

December 8, 2022

Bitly link for PPT: <u>http://bit.ly/LBCCP-08122022</u>



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Quick Reminders

- Chat is disabled, but presenters will post links and other information in chat
- Link to the slide deck is currently available in chat
- Participants will need to use Q&A feature to ask questions to be answered live or directly in Q&A
- Closed Captioning is available by clicking the "CC" button on your screen

Objectives

By the end of this webinar, participants will understand how:

The nearly 150 metrics in the Community College Pipeline (CCP) enhance data in other dashboards for conducting local program review or for fulfilling other requirements for student data

> The dashboard has been updated and improved

The equity gap charts and drilldowns can support conversations around addressing persistent equity gaps

The LMI and online job postings data from Lightcast (formerly Emsi) has been updated to consider regional jobs, annual openings, skills, qualifications and employers





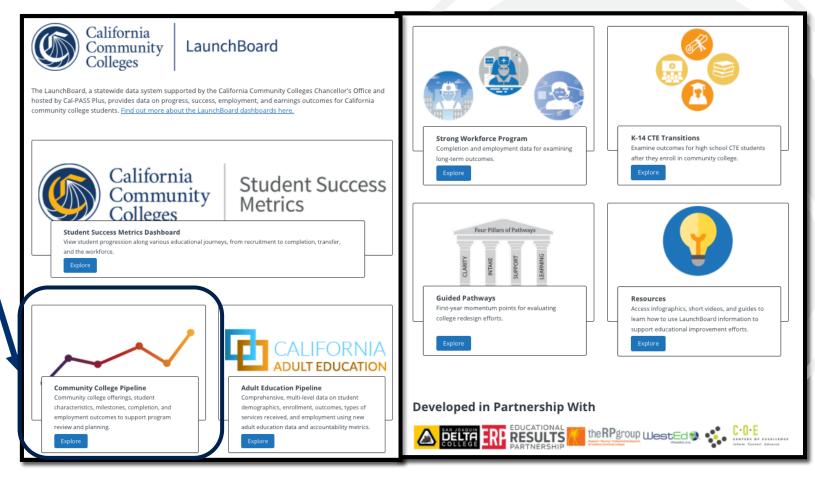
Purposes of CCP

- Informs Program Review
- Enhances limited information in other Accountability dashboards
- Helps in evaluating persistent equity gaps
- Highlights where we need to focus improvement efforts or to expand what is working well
- Provides LMI and online job postings data to consider

What is the Community College Pipeline Dashboard?

The most comprehensive dashboard, offering longitudinal data about students that is specific to industry sector or TOP code level

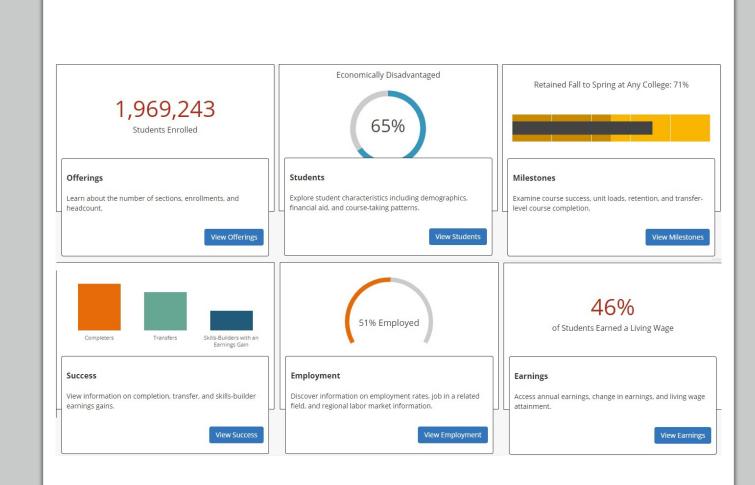
Offers detailed data to help inform **who** we are serving and **how well** we are serving them in our system





CCP Dashboard

Provides details to help us understand who our students are, how well we are serving them, and what their outcomes are in the workforce once they leave us





Community College Pipeline enables users to find program-specific information

| Statewide All programs All CTE Program All CTE Program All Non-CTE Programs Sector Top04 Top06 2011-2012 to 2020-2021 2020-2021 Gender Race/Ethnicity Race/Ethnicity Perkins Economically Disadvantaged | Locale | AND | Program | AND | Year | AND | Disaggregations |
|---|--|-----|---|-----|------|-----|---|
| | MacroregionMicroregionDistrict | • | All CTE Program All Non-CTE Programs Sector Top04 | | | | Race/Ethnicity Age Group Perkins Economically |



Recognize Possible Successes and Challenges

For example, between 2011-12 and 2019-20:

 2,787 more female students attained the Vision Goal Definition of Completion or Transferred which is a 19% increase

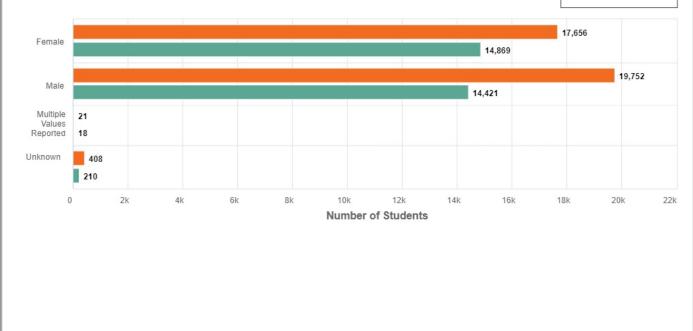
5,331 more male students achieved the metric outcome which is a
37% increase

Attained the Vision Goal Completion Definition or Transferred to a Four-Year

Among students in selected student journey, the number of students who attained the Vision for Success definition of completion in the selected year or who enrolled in a four-year institution in the subsequent year

Statewide, Information and Communication Technologies - Digital Media, 2019-2020
Statewide, Information and Communication Technologies - Digital Media, 2011-2012

Gender



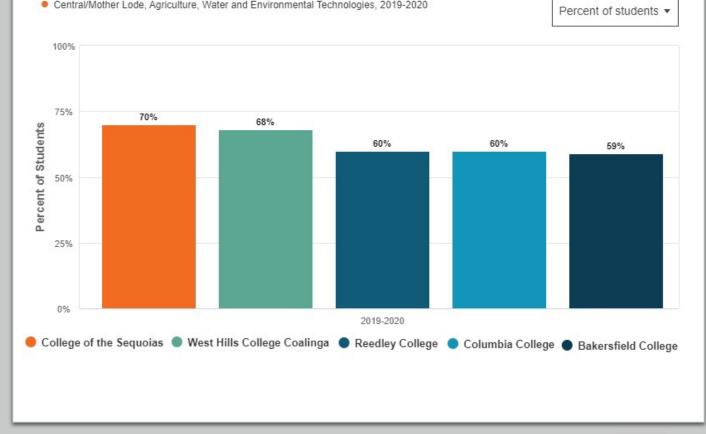


Identify Areas to Focus on for Improvement with Comparisons

Top Five Colleges, Districts, or Regions (depending on selections made) available for Completion, Transfer, Employment Rates, Attained the Living Wage, and Median Change in Earnings

Top Five Colleges for Living Wages

Among exiting CCP students who last took a course or earned an award in the selected TOP code in the selected year and who did not transfer, top five colleges with the highest proportion of CCP students who attained the district county living wage for a single adult





VIEW HIGHEST

Understand equity gaps

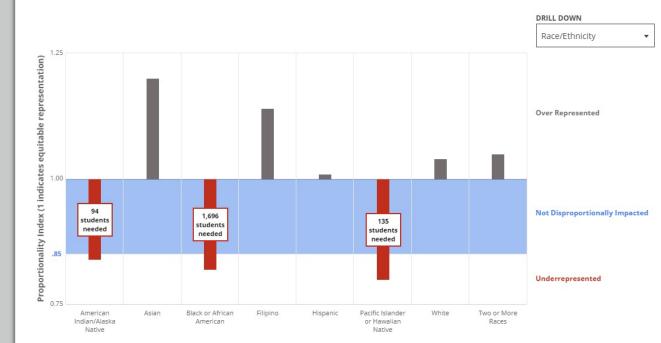
Equity gap chart for completion



Are there Equity Gaps in Completion using a **<u>Proportionality Index?</u>**

For more detailed information, go to the Detailed Data view under the Equity Gap section.

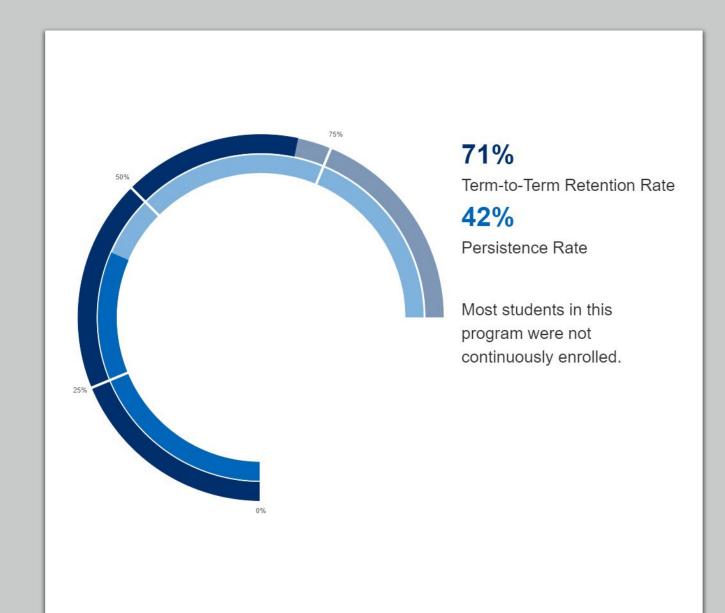
For the locale, program/sector and year selection made above, the Equity Gap charts shows how many students need to complete in order to Close the Equity Gap for underrepresented populations disproportionately impacted either by gender, race/ethnicity or age. The number of students needed to Close the Equity Gap refers to the number of students who need to complete (by gender, by race/ethnicity or by age) to achieve a one-to-one ratio. Example of a one-one-ratio: % of Hispanic students in the Health Sector in 2018-19 who completed = % of Hispanic students who enrolled in the Health Sector in 2018-19 at the college, district, microregion, macroregion, or statewide selected.



Ratio: percentage of the subgroup who completed compared to the percentage of the subgroup at the locale selected (college, district, microregion, macroregion, statewide)

Identify Barriers and Opportunities

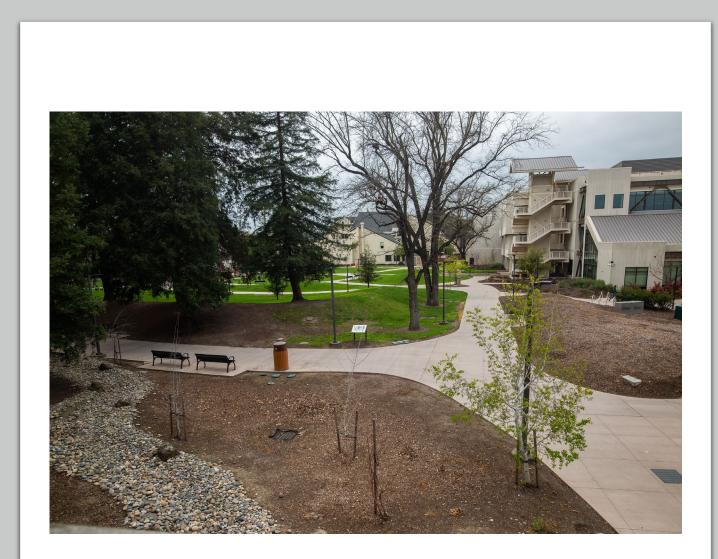
Retention and Persistence





Use Community College Pipeline data to select a path for improvement efforts

- Identify what has worked
- Gather more information to understand why the barriers exist
- Brainstorm and try solutions to address gaps
- Measure results and improve efforts







The Hard Truth

Dashboards cannot answer all your questions or the why, BUT the data can be useful Types of Information: Interesting



Types of Information: Useful



Types of Information: Useful and Actionable



Very Actionable: Eyewitness

All Types of Information: Eyewitness

Joel, do you know what you are going to do after graduation with an AS in Accounting? I've got a full-time job making \$85K/year as an Accounting Analyst for Disney. It took me 3.2 months to find it through Indeed. I got the job because you taught me how to prepare contribution-margin income statements in ACCT 031 in Spring 2021. Let me show you my pay stub.



Dashboard data is more like this level of useful information

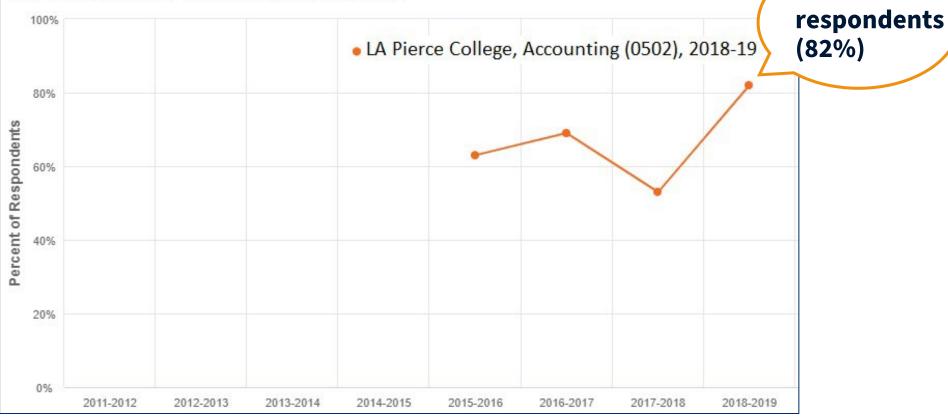






Job Closely Related to Field of Study*

Among CTE students who responded to this CTE Outcomes Survey question(s) and did not transfer to any postsecondary institution, the proportion who reported that they are working in a job very closely or closely related to their field of study



9 out of 11

Dashboard data is more like this level of useful information



Among CTE students who responded to this CTE Outcomes Survey question(s) and did not transfer to any postsecondary institution, the proportion who reported that they are working in a job very closely or closely related to their field of study





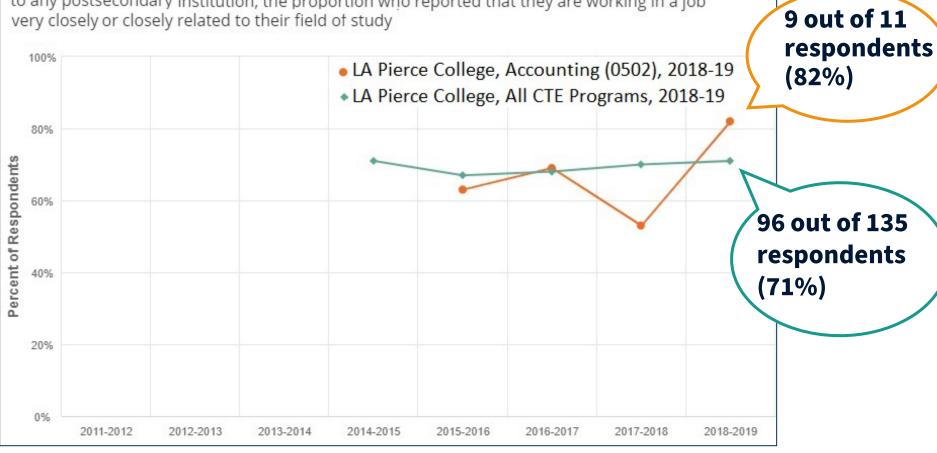


Dashboard data is more like this level of useful information



Among CTE students who responded to this CTE Outcomes Survey question(s) and did not transfer to any postsecondary institution, the proportion who reported that they are working in a job very closely or closely related to their field of study









Updates to CCP

New features and other changes in the most recent release

New Features in CCP

New Metric for Success: Attained the Vision Goal Definition of Completion or Transferred to a Four-Year Institution

New Drilldown: Perkins Economically Disadvantaged

New Locales: CalBright College and Madera College

New UI Features:

- Incomplete years of data display and notes from Student Success Metrics
- Toggle to display number or percentage of students for top five metrics
- Disaggregations added to Successfully Completed Unit Thresholds in the Fall Term and in the Selected Year



Feedback and questions are encouraged to improve display. Please email <u>launchboard@cccco.edu</u>

What to Understand about Display of Incomplete Years of Data in the CCP Snapshot View

- Incomplete years of data will **update** over time
- Lighter, transparent bars or outlined markers signify that **incomplete years** of data are displayed
- In CCP the metrics with incomplete years of data include:
 - **3 Metrics in the Milestones View**: Completed Transfer Level Math and English, Math Only and English Only (Expanded View)
 - **1 Metric in the Employment View**: Employed in the Fourth Fiscal Quarter After Exit



Completion of TL Math & English (Expanded View)

Time Trend Display of Incomplete **Years of Data**

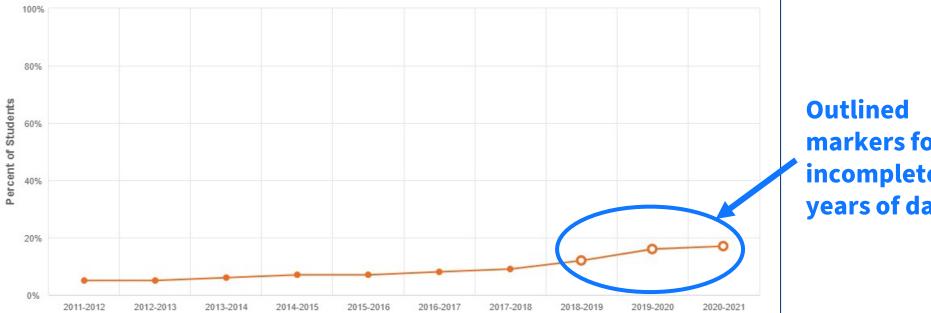
Notes to remind why incomplete data is displayed for this metric



California Community Colleges

Completion of Transfer-Level Math and English (Expanded)*

Among CCP students first-time NSA credit students, the proportion who completed both transfer-level math and English in their first academic year of credit enrollment from their first term within the district allowing for students who enrolled in credit ESL to complete transfer-level math and English within three complete years from first term



markers for incomplete years of data

Display Note: Information is displayed for students where the timeframe allowed to meet the outcome of the metric is complete as noted by solid data point markers and incomplete as noted by outlined markers.

Note: The Completed Transfer-Level Math and English (expanded view) counts students who complete within one year from their first term of enrollment while Credit ESL students can complete within three years from their first term of enrollment. Therefore, depending on the academic year as data becomes available, values and percentages for these metrics will update over time for incomplete years as more students complete within the applicable timeframes from their first enrollment.

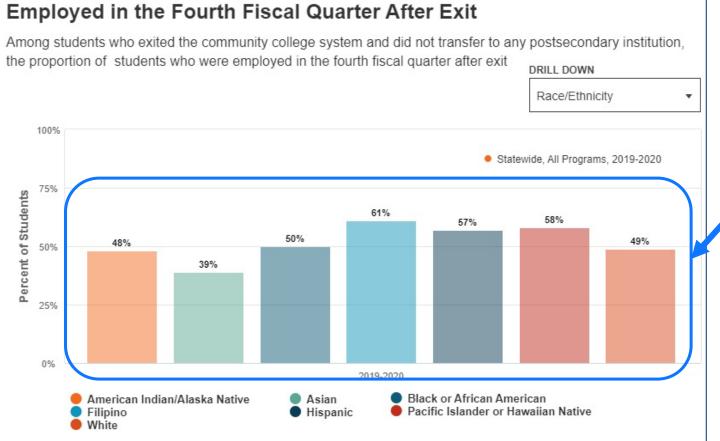
Employed in 4th Fiscal Quarter After Exit

Single Year Display of Incomplete Year of Data for Drill **Down Selection**

Notes to remind why incomplete data is displayed for this metric







Display Note: The data displayed in this chart are from an incomplete year of data.

Note: Employment records in the fourth quarter after exit, which correspond to the second quarter in the EDD UI wage file (April through June 2021), may not be complete due to data availability at the time of requested delivery of the EDD data for the build of the LaunchBoard dashboards. Therefore, the 2019-20 data for this metric may change with the integration of an updated EDD UI wage file in the next build of the dashboard.

Lighter transparent bars are displayed for incomplete year of data

Updates to Metrics

- Summary slides in Appendix for updates to metrics in Community College Pipeline including impact
- For a more thorough review of changes in definitions:

For thorough high-level explanations of significant changes, see the <u>Changes</u> in <u>Definition on CCP November 22</u> resource provided in the resource section



Live Demo

How to navigate the Community College Pipeline to find useful information







<u>The Use</u>

How to understand equity gap charts and find labor market information in CCP

The importance of disproportionate impact calculations

- Consistency and intentionality
- A gap needs a reference point
- Use statistical methods to help be confident that a gap exists (that it's not random chance)
- Help inform prioritization based on the size the gap or number of students impacted



What equity gaps exist in transfer rates for students of different races/ethnicities?

The number of students needed to transfer to eliminate the equity gaps is displayed for Underrepresented student populations with substantive DI.

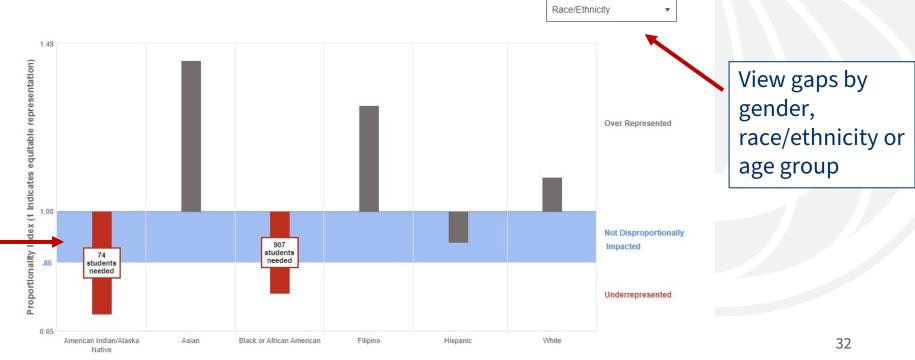
For example, if 907 more Black and 74 more American Indian/Alaska Native CTE students transferred to a fouryear, the equity gap would be eliminated.



Are there Equity Gaps in Transfer using a Proportionality Index?

For more detailed information, go to the Detailed Data view under the Equity Gap section

For the locale, program/sector and year selection made above, the Equity Gap charts shows how many students need to transfer in order to Close the Equity Gap for underrepresented populations disproportionately impacted either by gender, race/ethnicity or age. The number of students needed to Close the Equity Gap refers to the number of students who need to transfer (by gender, by race/ethnicity or by age) to achieve a one-to-one ratio. Example of a one-one-ratio: % of Hispanic students in the Health Sector in 2018-19 who transferred = % of Hispanic students who enrolled in the Health Sector in 2018-19 at the college, district, microregion, macroregion, or statewide selected.



Pop-up text to

Proportionality

describe

Index

5 Things to Know About Labor Market Information (LMI)

- 1. The coding system for LMI or Labor Market Demand and Supply is based on **national data** by US Bureau of Labor Statistics and the Department of Education:
 - SOC Codes (Standard Occupational Codes)
 - CIP Codes (Classification of Instructional Programs)
 - Typical Entry-Level of Education for a SOC code
- 2. Since TOP codes are unique to CA Community Colleges, a **TOP-SOC crosswalk** is needed to map SOC codes to TOP codes which is based on the national CIP-SOC crosswalk.
- One SOC code nearly always represents many different jobs and job titles and can map to more than one program or CIP code (See <u>o*net</u> for more information on SOC codes)



5 Things to Know About LMI (Continued)

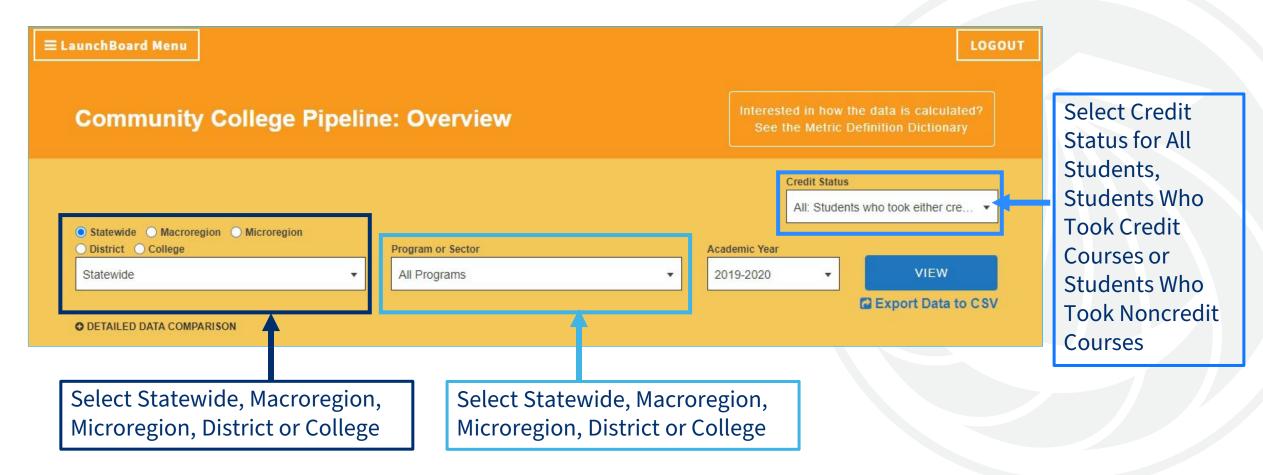
- 4. Labor Market Data is very **different** from Online Job Postings
 - Labor Market Data is useful for getting an understanding of trends in employment and earnings over time
 - Information from online job postings helps to augment the traditional labor market data

5. Since **Typical Entry-Level Education** is based on national data, **alternative paths to employment may vary at the regional level**

• Because of this, a SOC code's 'Typical Entry-Level Education ' might not align to local or regional skills requirements for a given job or industry

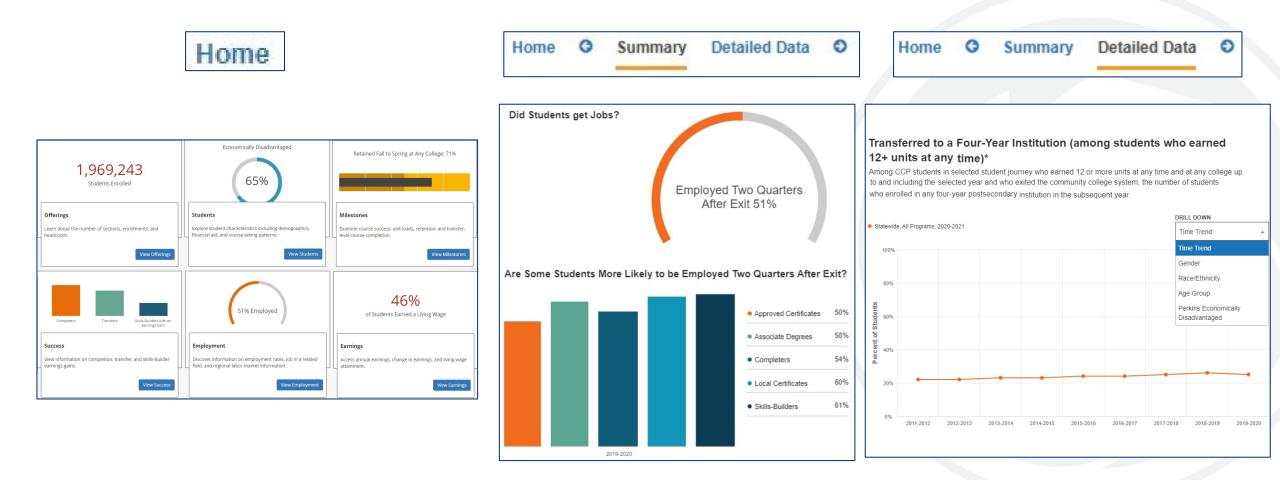


Using the menu to find the information relevant to your region and program





Three ways to see the information





Three ways for navigating

Go back to the homepage

Use the arrows

Jump between summary and detailed





Select the relevant metrics from the detailed data

Home



Expand carrots in left navigation to see groupings of metrics



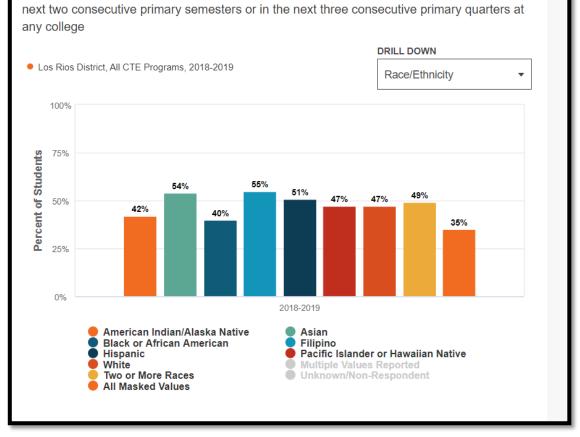
| ome G Summary Detailed Data O | | | | | | | | | | | |
|---|---------------------|--------|--------------|-------------|---------------------------|-------------|-----------|------------|-----------|------------|------------|
| Milestones | Co | urs | e Suc | cess | Rate* | | | | | | |
| ∧ Courses | Amo | ng C | TE stude | nts who r | espondeo | d to this C | TE Outco | omes Sur | vey ques | tion(s) an | nd did not |
| Course Retention Rate | | | | | ry institut apprentice | 5.0 0.2 | ercentag | e of stude | ents who | responde | ed that |
| Course Success Rate* | | | | | | | | | DRILL DO | WN | |
| ▲ Learning Progress | • Sta | atewid | e, All CTE P | rograms, 20 | 19-2020 | | | | Time Tre | end | • |
| Skills Gains* | | 100% | | | | | | | | | |
| Completion of Transfer-Level Math and English* | | | | | | | | | | | |
| Completion of Transfer-Level Math* | | 80% | | | _ | | | | | | - |
| Completion of Transfer-Level English* | udents | 60% | | | | | | | | | |
| Completion of Transfer-Level Math and English (Expanded)* | Percent of Students | | | | | | | | | | |
| Completion of Transfer-Level Math (Expanded)* | Percel | 40% | | | | | | | | | |
| Completion of Transfer-Level English (Expanded)* | | 20% | | | | | | | | | |
| ✔ Credit Momentum | | | | | | | | | | | |
| ✓ Noncredit Momentum | | | | | | | | | | | |
| ✓ CTE Outcome Survey Responses (self-reported data) | | 0% | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 |

Ŧ

Using drill downs to find information for specific populations

How many students persist through three terms?

Example: Los Rios District, All CTE Programs



Among CCP students who enrolled in at least one course in a TOP code in any term of the selected year at the selected institution who did not transfer or who did not earn an award in the selected year, the percentage who enrolled in at least one course in any TOP code in the



How many students are employed after exiting?

Example: Los Rios, Business & Entrepreneurship

Employed in the Second Fiscal Quarter After Exit

Among students who exited the community college system and did not transfer to any postsecondary institution, the proportion of students who were employed in the second fiscal quarter after exit





Comparison data

Employed in the Second Fiscal Quarter after Exit

| Statewide O Macroregion O Microregion O District | O College | Program or Sector | Academic Year | |
|--|-----------|---------------------------------|---|------------|
| Los Rios District | • | Business and Entrepreneurship 🔹 | 2019-2020 🔻 | |
| DETAILED DATA COMPARISON Statewide O Macroregion O Microregion O District | O College | Program or Sector | Los Rios District, Business and Entrepreneurship, 2019-2020 Los Rios District, All CTE Programs, 2019-2020 | DRILL DOWN |
| os Rios District | • | All CTE Programs • | 100% | |
| | | | 80% | |
| Expand the Detailed Data compare in the top ribbo | | rison to | 40% | |
| | | | 20% | |
| | | | 09/ | |

2011-2012

2012-2013

2013-2014

2014-2015

2015-201

2016-201



2019-2020

What jobs are projected to increase in the next five years?

Total 2020 and 2025 Jobs in Microregion where college is located displayed along with top 5 SOC codes mapped to program or sector selection grouped by Skill Level: Typical Entry-Level Education The total number of jobs for 2020 and 2025 and percentage growth or decline in occupations associated with the selected TOP code in the microregion where the college is located

Los Rios District, Business and Entrepreneurship, 2019-2020

| | 2020 Jobs | 2025 Jobs | 2020-25 Change | 2020-25% Change |
|---|--------------|--------------|-------------------|--------------------|
| Regional Jobs Total | 426,179 | 456,064 | 29,885 | 7% |
| Above Middle Skill: Bachelor's Degree Or Hi | gher | | | |
| Management Analysts (13-1111) | 28,806 | 30,756 | 1,950 | 7% |
| General and Operations Managers (11-1021) | 16,461 | 17,870 | 1,408 | 9% |
| Personal Service Managers, All Other; Entertainment and Recreation Managers, Except Gambling; and Managers, All Other (11-9198) | 16,397 | 17,618 | 1,221 | 7% |
| Middle Skill: HS Diploma Or Equivalent @ | | | | |
| Real Estate Sales Agents (41-9022) | 30,457 | 32,893 | 2,436 | 8% |
| Middle Skill: On-The-Job Training | | | | |
| | 27,131 | 27,712 | 581 | 2% |



What skills are needed for those jobs?

| The number of unduplicated online job postings for top five hard skills in top 10 occupations in the region associated with the selected industry sector or TOP code in the locale selected over a 90-day period (July -Sept 2021). Hard skills are specific, learnable, measurable, often industry- or occupation-specific abilities related to a position. Example: JavaScript might be a hard skill for a data analyst or CPR for a nurse. | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Los Rios District, Business and Entrepreneurship, 2019-2020 | | | | | | | | |
| Skill | | | | | | | | |
| Bachelor's Degree Or Higher | | | | | | | | |
| Software Engineering | | | | | | | | |
| Accounting | | | | | | | | |
| Java (Programming Language) | | | | | | | | |
| Python (Programming Language) | | | | | | | | |
| SQL (Programming Language) | | | | | | | | |
| | | | | | | | | |
| JavaScript (Programming Language) | | | | | | | | |
| Cascading Style Sheets (CSS) | | | | | | | | |
| HyperText Markup Language (HTML) | | | | | | | | |
| Java (Programming Language) | | | | | | | | |
| | | | | | | | | |
| SQL (Programming Language) | | | | | | | | |
| SQL (Programming Language) | | | | | | | | |
| SQL (Programming Language) Merchandising | | | | | | | | |
| | | | | | | | | |
| Merchandising | | | | | | | | |
| Merchandising Cash Handling | | | | | | | | |
| | | | | | | | | |

Common Skills Requested in Online Job Postings (90 days)

The number of unduplicated online job postings for top five common skills in top 10 occupations in the region associated with the selected industry sector or TOP code in the locale selected over a 90-day period (July -Sept 2021). Common skills can be self-taught and usually do not necessitate a certain completed level of education, such as a Master's degree, or other certifications/credentials. They are essential in many industries and occupations (Example: problem-solving, project management).

Los Rios District, Business and Entrepreneurship, 2019-2020

| | Skill | | | | | |
|--|-----------------------------|--|--|--|--|--|
| Bachelor's Degree Or Higher | | | | | | |
| | Sales | | | | | |
| Accountants and Auditors (13-2011) General and Operations Managers (11-1021) | Software Engineering | | | | | |
| Software Developers and Software Quality Assurance Analysts and Testers (15-1256) | Accounting | | | | | |
| Sales Managers (11-2022) | Java (Programming Language) | | | | | |
| | Operations | | | | | |
| HS Diploma Or Equivalent | | | | | | |
| Customer Service Representatives (43- 4051) | Customer Service | | | | | |
| First-Line Supervisors of Office and Administrative Support Workers (43-1011) | Sales | | | | | |
| Insurance Sales Agents (41-3021) First-Line Supervisors of Retail Sales Workers (41-1011) | Merchandising | | | | | |
| Sales Representatives, Wholesale and Manufacturing, Except Technical and | Management | | | | | |
| Scientific Products (41-4012) | Communications | | | | | |
| On-The-Job Training | | | | | | |
| | Sales | | | | | |
| | Customer Service | | | | | |
| Retail Salespersons (41-2031) | Merchandising | | | | | |
| | Communications | | | | | |
| | Retail Sales | | | | | |
| | | | | | | |



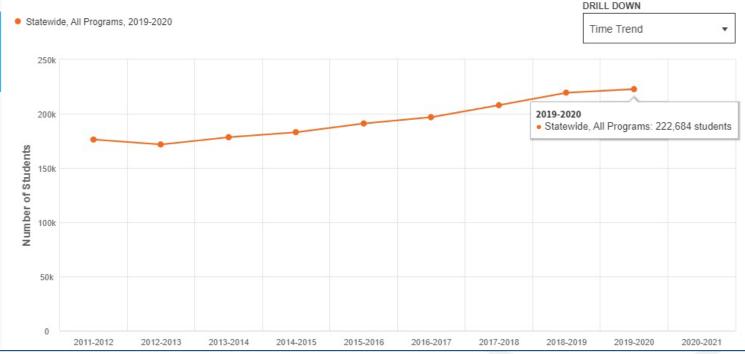
New: A New Metric for Attained the Vision Goal Definition of Completion or Transferred

New Metric Added to Success View for Completion or Transfer



Attained the Vision Goal Completion Definition or Transferred to a Four-Year

Among students in selected student journey, the number of students who attained the Vision for Success definition of completion in the selected year or who enrolled in a four-year institution in the subsequent year





New: Top 5 Metrics Displayed by Number and Percentage of Students

Top Five Colleges for Transfer Top Five Colleges for Transfer Top five colleges for proportion of CCP students who earned 12 units at any college and at any time and Top five colleges for proportion of CCP students who earned 12 units at any college and at any time and who exited the community college system in the selected year and enrolled in a four-year who exited the community college system in the selected year and enrolled in a four-year institution in the subsequent year institution in the subsequent year VIEW HIGHEST VIEW HIGHEST Statewide, All Programs, 2019-2020 Statewide, All Programs, 2019-2020 Percent of students Number of students 100% 5k 3,912 4k 75% 3.603 Students Number of Students 3.262 3,249 3.153 31 5 50% 43% ercent 42% 40% 39% 37% 2k ě. 25% 1k 0% 0 2019-2020 2019-2020 Mt. San Antonio Clovis Community San Diego Mesa Irvine Valley Berkeley City San Diego Mesa Santa Monica Moorpark Pasadena City Saddleback College College College College College College College College College College

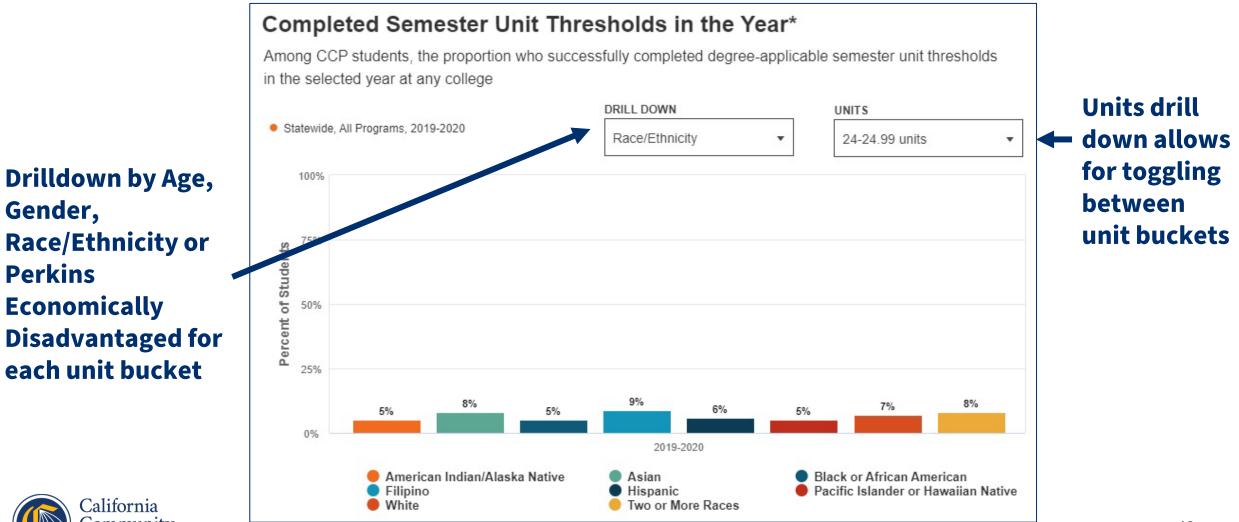
View by Highest in terms

of **Number** of Students

California

Community Colleges View by Highest in terms of **Percent** of Students ⁴⁵

New: Drill Downs Added for Unit Threshold Metrics



CCP Dashboard Resources

- Click Here to "View Resources" takes you to the Resource Library
- Click Here **"To Find Out More About the Data in the Community College Pipeline"** provides resources related to the 20201-22 build and dates of data files received for the build

Click Here to View Resources

- ▲ To Find Out More About the Data in the Community College Pipeline
 - Metric Definition Dictionary for November 2022 CCP Release
 - Changes in Definitions on CCP November 2022
 - · Download this document to see which colleges are assigned to each region
 - Download either document to see which TOP codes are assigned to each sector in WORD or in EXCEL
 - · Download this brief to learn more about the new Equity Gap Charts
 - Download this brief to learn more about the new Labor Market and Online Job Postings Metrics
 - Download this document to learn more about how CTEOS data is incorporated for the Job in Field of Study metric
 - Student goal information from CCC Apply updated on 03/25/2022
 - · Student goal, milestone and completion information from the Chancellor's Office Management Information System (MIS) last updated on 01/15/2022
 - · Chancellor's Office Curriculum Inventory file to identify Associate Degrees for Transfer provided by Chancellor's Office Management Information System on 12/09/2021
 - Employment and earnings information from the Employment Development Department Unemployment Insurance (UI) wage file last updated on 01/15/2022
 - · Employment and earnings information from the CTE Outcomes Survey last updated on 03/24/2022
 - Transfer to postsecondary information from the National Student Clearinghouse and CSU/UC match last updated on 01/15/2022
 - Attainment of Apprenticeship Journey Status from the Department of Apprenticeship Standards last updated on 01/15/2022
 - · Labor market and online job postings information from Lightcast (formerly EMSI)
 - For more information on labor market demand and supply information, visit the Centers of Excellence for Labor Market Research at http://www.coeccc.net



Acting on the data

Work with colleagues to answer the following questions:

- > What other information do you need?
- Which partners need to be involved?
- What are all the possible ideas for addressing the gaps and acting on the opportunities you identified?
- > Which of these ideas are likely to benefit students?
- > Which of these ideas are within your current capacity to implement?
- How can you measure what's working and make improvements as you go?







Give us your feedback!



Feedback survey link: <u>https://www.surveymonkey.</u> <u>com/r/2022CCPDASH</u>







Thank you!

www.cccco.edu



Appendix

Review of Updates

Offerings View: Enrollment

 Updated to count the total no. of enrollments on the selected TOP code instead of counting all enrollments on all TOP codes for students enrolled on the selected TOP code

Students:

- **Age Groups**: students with birthdays after 10/15 of the selected year were incorrectly determined to be one year older potentially placing them in the incorrect age group
- LGBT: students matched now on derkey for CCCApply data
- **First-Time:** updated to align more closely with first-time cohort in SSM by removing students who received all MW or EW grades for SX04 Enrollment-Grade in all credit courses in their first term*
- **First-Time Credit:** see Age Groups above where students no longer excluded because now under 18 when found in the transfer bucket
- **Current Special Admit:** students who were only ever special admit and who never had a non-special admit enrollment at any CA community college are now included

IMPACTS

Enrollments are lower

19 or less age group is higher and other age groups are lower

- More students are flagged as LGBT
- Less students are considered first-time
- More students are considered first-time credit
- Many more students are considered current special admit



Review of Updates

Student and Milestones: Goals and Noncredit Metrics

- Carry forward COVID logic for Spring 2020 to all terms in 2020-21 to include students with any noncredit enrollment because of inconsistent reporting for SX05 Positive Attendance Hours
- Remove hours reported and students enrolled on 493009 Supervised Tutoring and 493014 Study Skills as valid noncredit enrollments

Milestones:

- Completed Unit Thresholds: 0-unit buckets have been added
- **Transition from Noncredit to Credit:** two of the three metrics displayed are now more closely to their definitions

Success:

- **Students Who Attained Apprenticeship**: Derkey now used to identify students prior to 2011-12
- Average Time to Degree: students who earned multiple degrees in a year are deduplicated

IMPACTS

The number of students included in
the Short-Term Career Ed. Journey is lower, and other noncredit outcomes are slightly lower

- 0 units as a threshold is now included
- Impact depends on TOP code selected but overall higher counts and percentages
- Values are much higher in earlier years and slightly higher in later
- Denominators are lower and average time to attainment very slightly impacted



Review of Updates

Earnings: Median Annual Earnings, Median Change in Earnings, Attained the Living Wage, Longer-Term Earnings

• All wages equated to 2021 wages instead of 2020 wages; so, wage higher by 1% to 2% expect for colleges in LA county where there was a change to the underlying data provided by EDD for 2012 through 2018 and wages are lower by just over 0% to 5% for some colleges in that county

For thorough high-level explanations of significant changes, see the <u>Changes</u> in <u>Definition on CCP November 22</u> resource provided in the resource section



Equity Gap Charts

Available in summary and detailed data views for the following metrics:

- Access (Enrollment)
- Completion
- Transfer

Different than just using the drilldown to compare %s

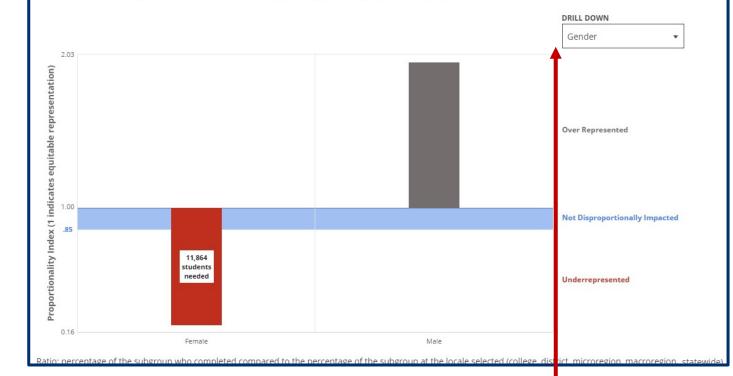
| O District O College | | Program or Sector | Academic Year | | _ | |
|----------------------|---|---|---------------|---|---|-------------------|
| Statewide | - | Advanced Transportation and Logistics 🔹 | 2019-2020 | • | | VIEW |
| | | | | | 0 | Export Data to CS |

O DETAILED DATA COMPARISON

Are there Equity Gaps in Access using a **Proportionality Index?**

For more detailed information, go to the Detailed Data view under the Equity Gap section. Please make any selection besides "All Programs" under Program or Sector.

For the locale, program/sector and year selection made above, the Equity Gap charts shows how many students need to enroll in order to Close the Equity Gap for underrepresented populations disproportionately impacted either by gender, race/ethnicity or age. The number of students needed to Close the Equity Gap refers to the number of students who need to enroll (by gender, by race/ethnicity or by age) to achieve a one-to-one ratio. Example of a one-one-ratio: % of female students who enrolled in Accounting in 2017-18 = % of female students who enrolled in All Programs in 2017-18 at the college, district, microregion, macroregion, or statewide selected



View gaps by gender, race/ethnicity or age group

Equity Gap Charts

What is a proportionality index?

A methodology to identify where there are equity gaps between different student population groups, beyond direct comparisons

It provides a consistent measurement to identify:

| For whom? | Which student groups are experiencing disproportionate impact and are underrepresented? |
|-----------|---|
| How big? | How many students' outcomes need to change to close the equity gap? |

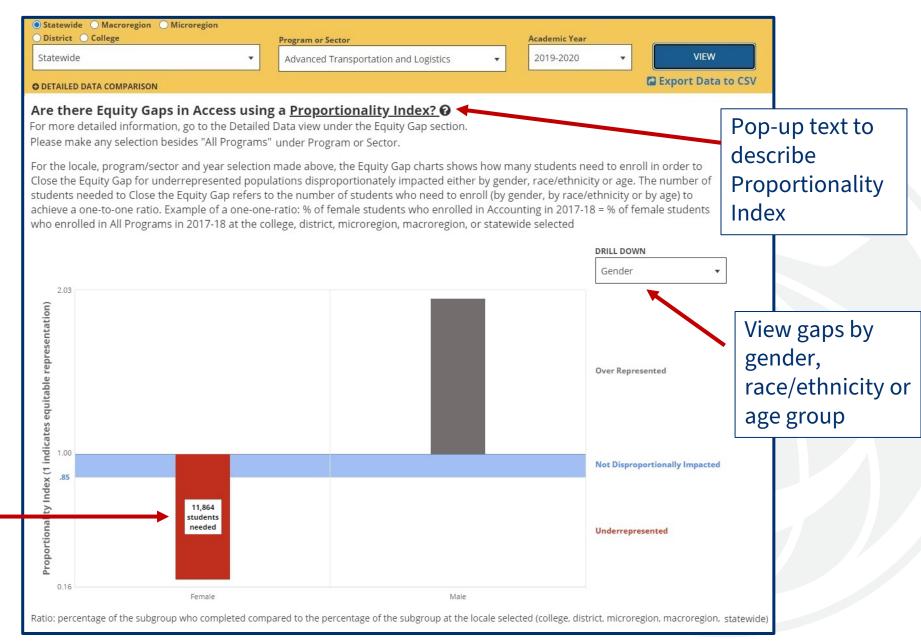


For more information about proportionality indices, please see: <u>https://bit.ly/CCP-EquityGapCharts-Fall21</u>

Summary View of Equity Gap Chart for Access

The number of students needed to enroll to eliminate the equity gaps is displayed for Underrepresented student populations with substantive DI.

For example, 11,864 more female students need to enrol<u>l</u> in the Advanced Transportation and Logistics sector to eliminate the equity gap.





Feedback and questions are encouraged to improve display. Please email <u>launchboard@cccco.edu</u>

Proportionality Index for Calculating Equity Gaps

Proportionality Index

A proportionality index of 1.00 indicates that a subgroup's representation among those achieving an educational outcome is identical to that subgroup's representation in the student population. If the ratio or index for a subgroup is less than 0.85 in terms of attainment of a metric outcome, then the Chancellor's Office considers that subgroup to be disproportionately impacted or underrepresented for that metric outcome.

Example Calculation:

- Group A accounts for 30% of the college population and 20% of the completions
 - 20% / 30% = .67 therefore underrepresented in completions and disproportionately impacted
- · Group B accounts for 30% of the college population and 30% of the completions
 - 30% / 30% = 1 therefore equally represented in completions and not disproportionately impacted
- Group C accounts for 40% of the college population and 50% of the completions
 - 50% / 40% = 1.2 therefore overrepresented in completions and not disproportionately impacted

Group A: Underrepresented with Disproportionate Impact

Group B: Underrepresented without Disproportionate Impact

Group C: Overrepresented



Equity Gap Charts

How is a proportionality index calculated?

A ratio comparing the percentage of students in a specific population who enrolled, completed, or transferred to the percentage of those students in the overall population

For example, in the Energy, Construction, Utilities **sector** in the Bay Area **region**:

- 27% of the students who transferred to a four-year institution in 18-19 identify as Hispanic
- 35% of enrolled students identify as Hispanic

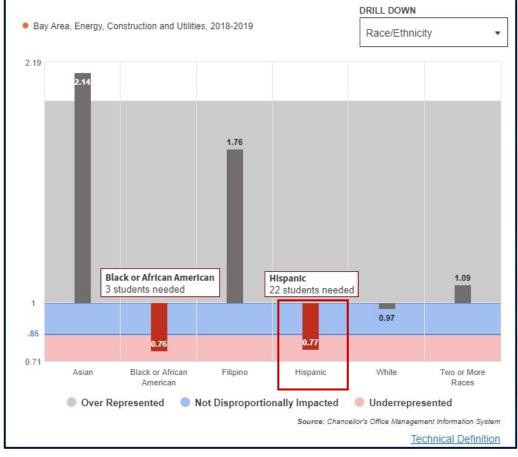
0.27/0.35 = 0.77

Underrepresented with Disproportionate Impact



Equity Gaps for Transfer

The <u>proportionality index</u> indicates whether a subgroup of students is represented equitably among those who transferred compared to the subgroup's representation among all exiting Community College Pipeline students in the selected program at the selected locale



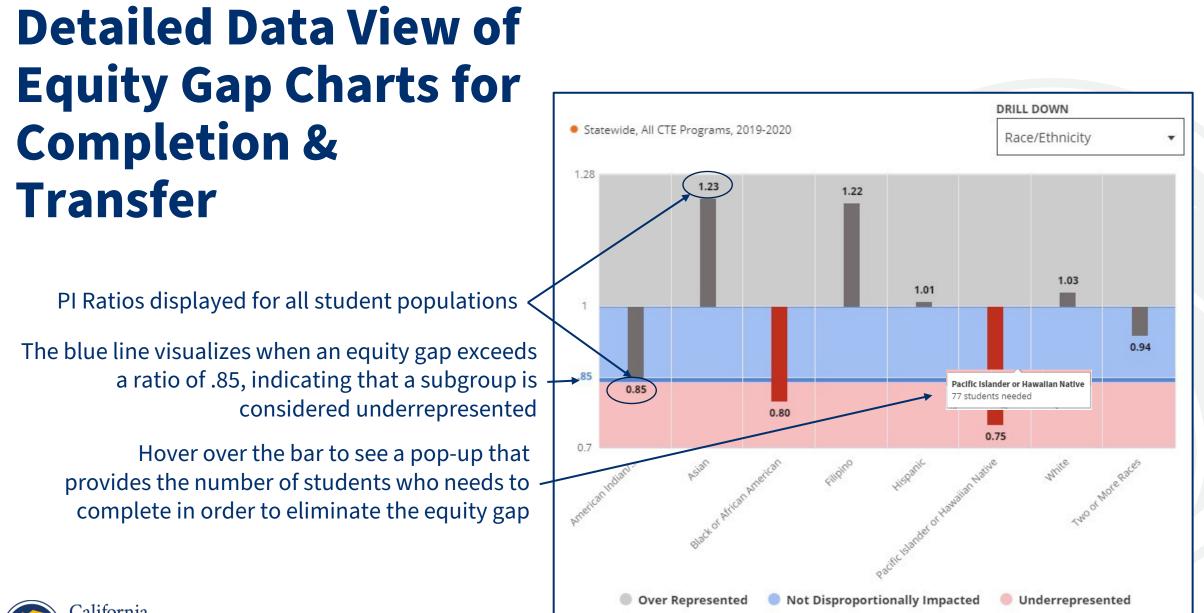




Table on the Detailed Data View of Equity Gap Chart for Completion & Transfer

Example: Completion | All CTE Programs | Race/Ethnicity

- 1. % of Pacific Islander students who completed in all CTE programs
- 2. % of Pacific Islander students in all CTE programs
- 3. % Pacific Islander students who completed in all CTE / % of Pacific Islander students in all CTE = PI Ratio
- 4. # of Pacific Islander completers in all CTE programs
- Total # of Pacific Islander students who need to complete in all CTE for a 1:1 ratio
- 6. (Total # of Pacific Islander students who need to complete in all CTE for a 1:1 ratio) (# of Pacific Islander students who completed in all CTE) = # of Pacific Islander students who need to complete in all CTE for a 1:1 ratio
- 7. Over (PI ratio > 1), Under without DI Impact (PI ratio 0.85 < 1), Under with DI impact (PI ratio < 0.85)

| | | | | | | Students | | Under with Disproportionate |
|--|----------------|---------------|-----------------------------------|-------------|--------------------|---------------------------------------|--|---|
| Ethnicity | % Completed | % of Total | % Completed / % of Total | PI Ratio | # of Completers | Total # Needed for 1:1 Ratio | # Needed to Complete for 1:1 Ratio | Impact (0.85 or less), Under without Disproportionate Impact, Over Represented |
| American Indian/Alaska Native | 0.30% | 0.40% | 0.30% / 0.40% = | 0.85 | 248 | 292 | 44 | Under without DI Impact |
| Asian | 11.90% | 9.70% | 11.90% / 9.70% = | 1.23 | 8,823 | 7,150 | N/A | Over |
| Black or African American | 4.80% | 6.00% | 4.80% / 6.00% = | 0.8 | 3,548 | 4,418 | 870 | Under with DI Impact |
| Filipino | 3.50% | 2.90% | 3.50% / 2.90% = | 1.22 | 2,575 | 2,119 | N/A | Over |
| Hispanic | 45.90% | 45.40% | 45.90% / 45.40% = | 1.01 | 33,926 | 33,563 | N/A | Over |
| Pacific Islander or Hawaiian Native | 0.30% | 0.40% | 0.30% / 0.40% = | 0.75 | 231 | 308 | 77 | Under with DI Impact |
| White | 26.10% | 25.20% | 26.10% / 25.20% = | 1.03 | 19,273 | 18,670 | N/A | Over |
| Two or More Races | 3.50% | 3.80% | 3.50% / 3.80% = | 0.94 | 2,624 | 2,787 | 163 | Under without DI Impact |



Metrics for Labor Market Data and Online Job Postings

Employment

Labor Market Data

Total Historical Regional Employment Total Projected Regional Employment Projected Regional Job Openings

▲ Online Job Postings

Hard Skills Requested in Online Job Postings (90 days) Hard Skills Requested in Online Job Postings (365 days) Common Skills Requested in Online Job Postings (90 days) Common Skills Requested in Online Job Postings (365 days) Qualifications Requested in Online Job Postings (90 days) Qualifications Requested in Online Job Postings (365 days) Employers in Online Job Postings (90 days)

Earnings

▲ Labor Market Data

Regional Entry-Level and Median Annual Salaries

For more information about Labor Market Data and Online Job Postings: <u>https://bit.ly/CCP-LMI-Fall21</u>



5 Things to Know About Labor Market Information (LMI)

- 1. The coding system for LMI or Labor Market Demand and Supply is based on **national data** by US Bureau of Labor Statistics and the Department of Education:
 - SOC Codes (Standard Occupational Codes)
 - CIP Codes (Classification of Instructional Programs)
 - Typical Entry-Level of Education for a SOC code
- 2. Since TOP codes are unique to CA Community Colleges, a **TOP-SOC crosswalk** is needed to map SOC codes to TOP codes which is based on the national CIP-SOC crosswalk.
- One SOC code nearly always represents many different jobs and job titles and can map to more than one program or CIP code (See <u>o*net</u> for more information on SOC codes)



5 Things to Know About LMI (Continued)

- 4. Labor Market Data is very **different** from Online Job Postings
 - Labor Market Data is useful for getting an understanding of trends in employment and earnings over time
 - Information from online job postings helps to augment the traditional labor market data

5. Since **Typical Entry-Level Education** is based on national data, **alternative paths to employment may vary at the regional level**

• Because of this, a SOC code's 'Typical Entry-Level Education ' might not align to local or regional skills requirements for a given job or industry



Labor Market Data

Available in the detailed data view under Labor Market Data under Employment:

- Total Historical Regional Employment
- Total Projected Regional Employment
- Projected Regional Job Openings

Total Projected Regional Employment

The total number of jobs for 2020 and 2025 and percentage growth or decline in occupations associated with the selected TOP code in the microregion where the college is located

| Sacramento City College, All CTE Programs, 2018-2019 | 2020 Jobs | 2025 Jobs | 2020-25 Change | 2020-25% Change |
|--|--------------|--------------------|-------------------|--------------------|
| Regional Jobs Total | 1,155,622 | 1,248,097 | 92,475 | 7% |
| Above Middle Skill: Bachelor's Degree Or | Higher | | | |
| Management Analysts (13-1111) | 28,806 | 30,756 | 1,950 | 7% |
| Middle Skill: HS Diploma Or Equivalent @ | | | | |
| Home Health and Personal Care Aides (31-1128) | 49,110 | 63,106 | 13,995 | 28% |
| Real Estate Sales Agents (41-9022) | 30,457 | 32,893 | 2,436 | 8% |
| Office Clerks, General (43-9061) | 25,294 | 25,960 | 666 | 3% |
| Middle Skill: On-The-Job Training | | | | |
| Retail Salespersons (41-2031) | 27,131 | 27,712 | 581 | 2% |
| | Source | e: Emsi Labor Mark | et data 2021.3, T | OP-SOC Crosswall |
| | | | Techr | nical Definition |



Total 2020 and 2025 Jobs in Microregion where college is located displayed along with **top 5 SOC codes** (in term of 2020 Jobs) mapped to program or sector selection grouped by Skill Level: Typical Entry-Level Education

Labor Market Data

Available in the detailed data view under Labor Market Data under Earnings:

 Regional Entry-Level and Median Annual Salaries

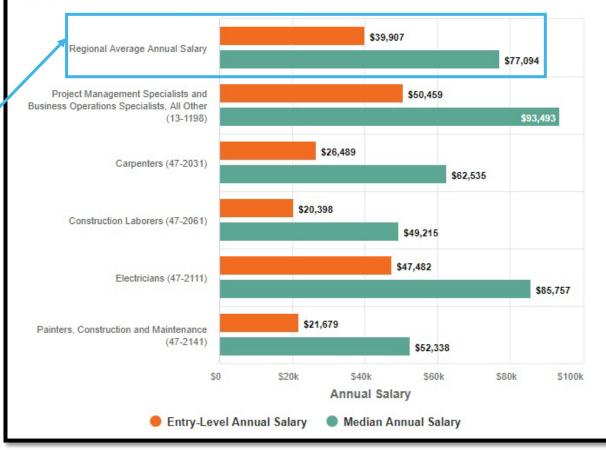
Compares the Regional Average Annual Entry-Level and Median Salaries in the Micro or Macro Region or Statewide to the top 5 occupations (in terms of Annual Openings 2020-25) mapped to the program or sector selected



Regional Entry-Level and Median Annual Salaries

The regional average entry-level (10th percentile) and median annual salaries of people employed in occupations associated with the selected TOP code in the microregion where the college is located

Bay Area, Energy, Construction and Utilities, 2019-2020



Online Job Postings

Available the detailed data view under Online Job Postings:

- Hard Skills (90- and 365-day periods)
- Common Skills (90- and 365-day periods)
- Qualifications (90- and 365-day periods)
- Employers (90- and 365-day periods)
- Expand to see table with No. of postings for prior 90- or 365-day period compared to latest 90-day or 365-day period

in the region associated with the selected industry sector or TOP code in the locale selected over a 365-day period (Oct 2020 - Sept 2021). Hard skills are specific, learnable, measurable often industry- or occupation-specific abilities related to a position. Example: JavaScript might be a hard skill for a data analyst or CPR for a nurse. San Diego/Imperial Counties, Life Sciences - Biotechnology, 2019-2020 Skill Associate Degree Good Manufacturing Practices Medical Equipment Repairers (49-9062) Calibration Technologists and Technicians and Quality Control Engineering Technologists and Technicians, Auditing Except Drafters, All Other (17-3098) Chemical Technicians (19-4031) Corrective And Preventive Action (CAPA) Life, Physical, and Social Science Technicians All Other (19-4099) Chemistry Postsecondary Non-Degree Award Medical Records Auditing Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Radiology Technicians, All Other (29-2098) Medical Terminology Basic Life Support View Detailed Table with Numeric Values

Hard Skills Requested in Online Job Postings (365 days)

The number of unduplicated online job postings for top five hard skills in top 10 occupations



For each group of SOC codes (mapped to the program or sector selected) organized by Typical Entry-Level Education**, top 5 skills** (in terms of latest 90- or 365-day) are displayed over 90-day or 365day periods

Labor Market Historical Employment

Colleges

Total Historical Regional Employment

The total number of jobs for 2015 and 2020 and percentage growth or decline in occupation associated with the selected TOP code in the microregion where the college is located

| | Statewide, Energy, Construction and Utilities, 2018-2019 | 9 2015 Jobs | 2020 Jobs | 2015-20 Change | 2015-20% Change |
|---|--|----------------|--------------|-------------------|--------------------|
| | Statewide Jobs Total | 1,446,527 | 1,636,015 | 189,488 | 12% |
| | Higher Skill: Bachelor's Degree Or High | er | | | |
| Statewide selection will give Statewide jobs | Project Management Specialists and Business Operations Specialists, All Other (13-1198) | 152,419 | 249,276 | 96,858 | 64% |
| Top five SOC codes | Middle Skill: Apprenticeship | | | | |
| mapped to program or | Carpenters (47-2031) | 160,519 | 172,965 | 12,446 | 8% |
| ctor selection displayed | Electricians (47-2111) | 73,604 | 84,821 | 11,217 | 15% |
| by Skill Level: Typical Entry-Level of Education | Below Middle Skill: On-The-Job Training | 0 | | | |
| per BLS | Construction Laborers (47-2061) | 166,646 | 176,227 | 9,581 | 6% |
| California | Painters, Construction and Maintenance (47- 2141) | 71,491 | 74,322 | 2,831 | 4% |

otal Historical mployment: 2015 Jobs 2020 Jobs 2015-20 Change 2015-20 % Change op-up text or info on kills level

Labor Market Projected Employment

Total Projected Regional Employment

The total number of jobs for 2020 and 2025 and percentage growth or decline in occupations associated with the selected TOP code in the microregion where the college is located

| Macroregion selection will | |
|------------------------------|--|
| give jobs in the Macroregion | |

Top five SOC codes mapped to program or sector selection displayed by Skill Level: Typical Entry-Level of Education per BLS



Total Projected Employment:

- 2020 Jobs
- 2025 Jobs
- 2020-25 Change
- 2020-25 %
 Change



Labor Market Projected Openings

Colleges

| | Projected Regional Job Opening | | | | |
|---|--|---------------------------------|-----------------------------|------------------------------------|---|
| | The total number of annual replacement jobs, ave annual job openings for 2020-2025 time period in selected TOP code in the microregion where the c | Total Projected Openings: | | | |
| | Chabot-Las Positas District, Energy, Construction and Utilities, | 2019-2020 Annua | al Projections | for 2020-2025 | - Annual Replacement |
| College, District or Microregion selection will give | | Annual Replacement Jobs Ø | Annual <u>New Jobs</u> Ø | <u>Annual</u> <u>Openings</u> @ | Jobs - Annual New Jobs |
| jobs in the Microregion | Regional Totals | 11,082 | 5,194 | 12,200 | - Annual Openings |
| jobs in the incroregion | Above Middle Skill: Bachelor's Degree | Or Higher | | | ? Including pop-up text to explain each |
| Top five SOC codes mapped | Business Operations Specialists, All Other (13-1 | 198) 1,633 | 914 | 1,813 | with links to Emsi |
| to program or sector | Middle Skill: Apprenticeship | | | | resources |
| selection displayed by Skill | Carpenters (47-2031) | 1,131 | 54 | 1,179 | |
| Level: Typical Entry-Level of Education per BLS | Electricians (47-2111) | 769 | 957 | 962 | |
| | Below Middle Skill: On-The-Job Training | Ş | | | |
| | Construction Laborers (47-2061) | 1,246 | 423 | 1,340 | |
| California Community | Painters, Construction and Maintenance (47-214 | 11) 504 | 273 | 570 | 71 |

Hard and Common Skills Requested Over 90-day and 365-day Periods

Hard Skills Requested in Online Job Postings (365 days)

The number of unduplicated online job postings for top five hard skills in top 10 occupations in the region associated with the selected industry sector or TOP code in the microregion and macroregion where the college is located over a 365-day period (Oct 2020 -Sept 2021). Hard skills are specific, learnable, measurable, often industry- or occupation-specific abilities related to a position. Example: JavaScript might be a hard skill for a data analyst or CPR for a nurse.

Greater Sacramento. Advanced Manufacturing. 2019-2020

Top 10 SOC codes mapped to program or sector selection for microregion, macroregion or statewide selection displayed by Typical Entry-Level of Education per BLS



Bachelor's Degree Or Higher Electrical Engineering Electrical Engineers (17-2071) Mechanical Engineering Industrial Engineers (17-2112) Mechanical Engineers (17-2141) Automation Occupational Health and Safety Specialists (19-5011) AutoCAD Computer Hardware Engineers (17-2061) Surveyors (17-1022) Manufacturing Processes HS Diploma Or Equivalent Plumbing Maintenance and Repair Workers, General (49-9071) HVAC First-Line Supervisors of Production and Operating

- First-Line Supervisors of Production and Operating Workers (51-1011)
 Welders, Cutters, Solderers, and Brazers (51-4121)
- Machinists (51-4041)



Skill

Top 5 hard (or common) skills for each grouping of top 10 SOC codes by Typical Entry-Level of Education

Table for Hard and Common Skills Requested Over 90-day and 365-day Periods

| Expand to View | ▲ View Detailed Table with Nur | skill | No of Online Postings over 365- Day Period Oct 2019-Sept 2020 | No of Online Postings over 365- Day Period Oct 2020-Sept 2021 | % Change | No. of Online Job Posting for Previous 90-Day or 365-Day |
|---|--|------------------------|--|--|-------------|--|
| Expand to View | Bachelor's Degree Or Higher | | | | | Period compared |
| Detailed Table with No. | Electrical Engineers (17-2071) | Electrical Engineering | 534 | 695 | 30% | to the Latest 365- Day Period for Hard or Common Skills Requested |
| of Postings for Top Hard or Common Skills Requested in Online | Industrial Engineers (17-2112) Mechanical Engineers (17-2141) Occupational Health and Safety Specialists (19-5011) Computer Hardware Engineers (17-2061) Surveyors (17-1022) | Mechanical Engineerin | g 396 | 415 | 5% | |
| | | Automation | 192 | 260 | 35% | |
| | | AutoCAD | 179 | 246 | 37% | |
| Job Postings for Top 10 | | Manufacturing Proces | ses 176 | 226 | 28% | |
| SOC codes Mapped to | | | | | | by Employers |
| Program or Sector | HS Diploma Or Equivalent | | | | | |
| Selected | Maintenance and Repair | Plumbing | 1,261 | 1,782 | 41% | |
| | Workers, General (49-9071) First-Line Supervisors of Production and Operating Workers (51-1011) Welders, Cutters, Solderers, and Brazers (51-4121) Machinists (51-4041) | HVAC | 979 | 1,356 | 39% | |
| | | Painting | 787 | 1,129 | 43% | |
| | | Carpentry | 758 | 985 | 30% | |
| | | Mechanics | 566 | 753 | 33% | |

Source: Emsi Labor Market data 2021.3, TOP-SOC Crosswalk



Qualifications Requested Over 90-day and 365-day Periods

Top 5 SOC codes mapped to program or sector selection for microregion, macroregion or statewide selection displayed by Typical Entry-Level of Education per BLS

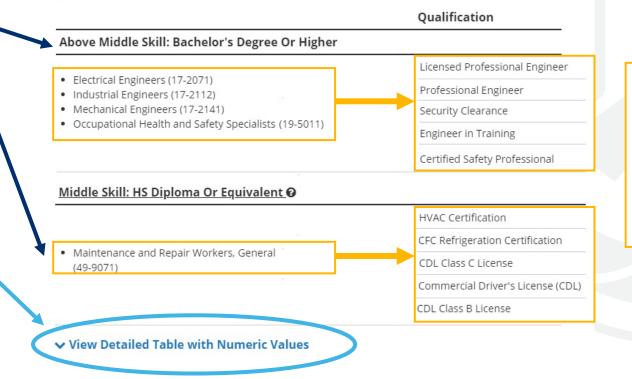
Expand to View Detailed Table with No. of Postings for Top Qualifications Requested comparing latest 90-day or 365day period to previous periods



Qualifications Requested in Online Job Postings (90 days)

The number of unduplicated online job postings for top five qualifications in top 5 occupations in the region associated with the selected industry sector or TOP code in the microregion and macroregion where the college is located over a 90-day period (July-Sept 2021). In Emsi data, the term qualifications refers to the certifications decided on by a third-party entity (school, government, industry, etc.) that acknowledges a body of skills and abilities

Greater Sacramento, Advanced Manufacturing, 2019-2020



Top 5 qualifications for each grouping of top 5 SOC codes by Skills Level: Typical Entry-Level of Education

Top Employers Posting Jobs Over 90-day and 365-day Periods

Top 10 SOC codes mapped to program or sector selection for microregion, macroregion or statewide selection displayed by Typical Entry-Level of Education per BLS

Employers in Online Job Postings (90 days)

The number of unduplicated online job postings by top 10 employers for top 10 occupations associated with the selected industry sector or TOP code in the microregion and macroregion where the college is located over a 90-day (July-Sept 2021) period

No of Online Postings East Bay, Administration of Justice (2105), 2019-2020 over 90-Day Period Employer July-Sept 2021 Above Middle Skill: Bachelor's Degree Or Higher Lucid Motors 296 General Dynamics Corporation 273 Child, Family, and School Social Workers (21-1021) Computer Occupations, All Other (15-1299) 97 Workday, Inc. Information Security Analysts (15-1212) 92 Facebook, Inc. Personal Service Managers, All Other; Entertainmen and Recreation Managers, Except Gambling; and 91 Cynet Systems Inc. Managers, All Other (11-9198) Accenture PLC 89 Middle Skill: HS Diploma Or Equivalent @ 72 Allied Universal 377 Detectives and Criminal Investigators (33-3021) Police and Sheriff's Patrol Officers (33-3051) Securitas USA Co. 97 First-Line Supervisors of Protective Service Workers, All Other (33-1099) Ross Stores, Inc. 63 Police, Fire, and Ambulance Dispatchers (43-5031) 43 Whelan Security Co. Private Detectives and Investigators (33-9021) Security Guards (33-9032) The Home Depot 41 Securitas Security Services Usa, Inc. 40

Top 10 Employers posting jobs online mapped to the top 10 SOC codes displayed by Level: Typical Entry-Level of Education

