Presented by The Office of Institutional Research and Planning

NOCE
NORTH ORANGE
CONTINUING EDUCATION

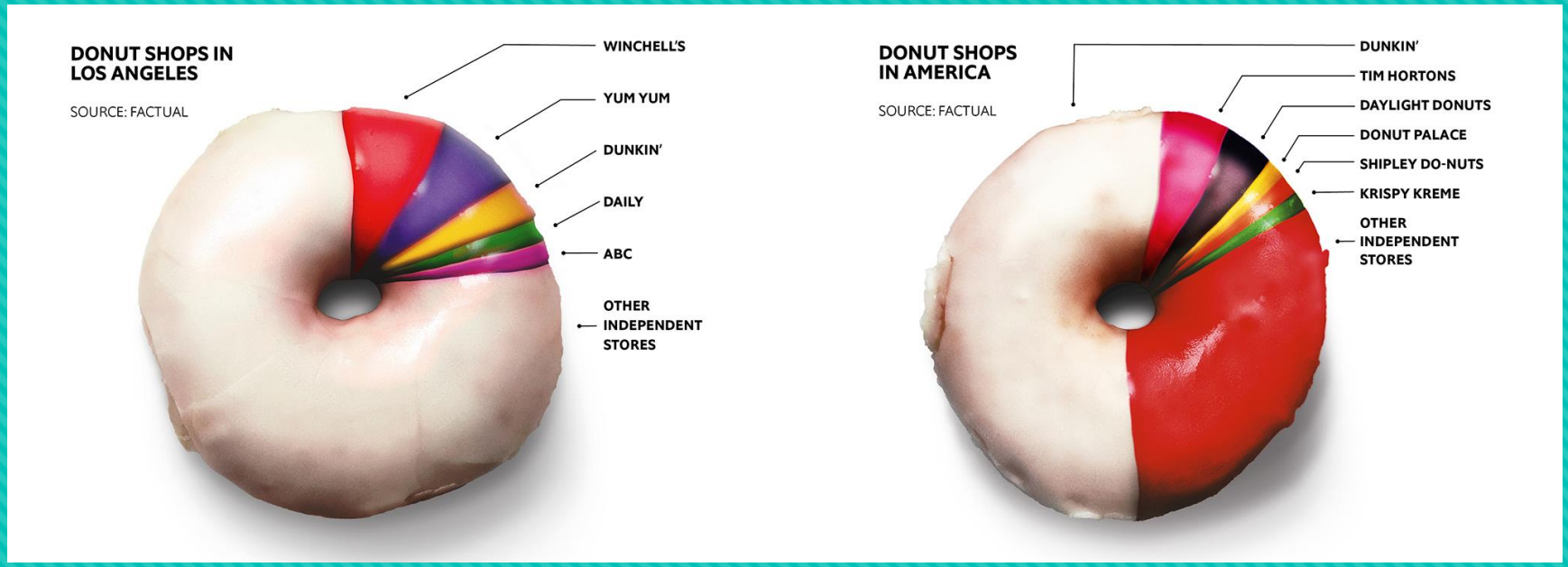
Data, Donuts, & Dashboards

Agenda

- Introduction & Learning Objectives (Dulce Delgadillo)
- CCCCO Data Mart
- Adult Ed Pipeline Dashboard (Harpreet Uppal)
- Strong Workforce Program Dashboard (Jason Makabali)
- Student Success Metrics Dashboard (Andy Pham, Juliet Lee)
- Let's Go Data Mining!!

Learning Objectives

- Familiarize audience with what dashboards are and how to access them
- Dive into dashboards that are relevant to noncredit students and programs
- Give audience some tools on how to explore and navigate dashboards



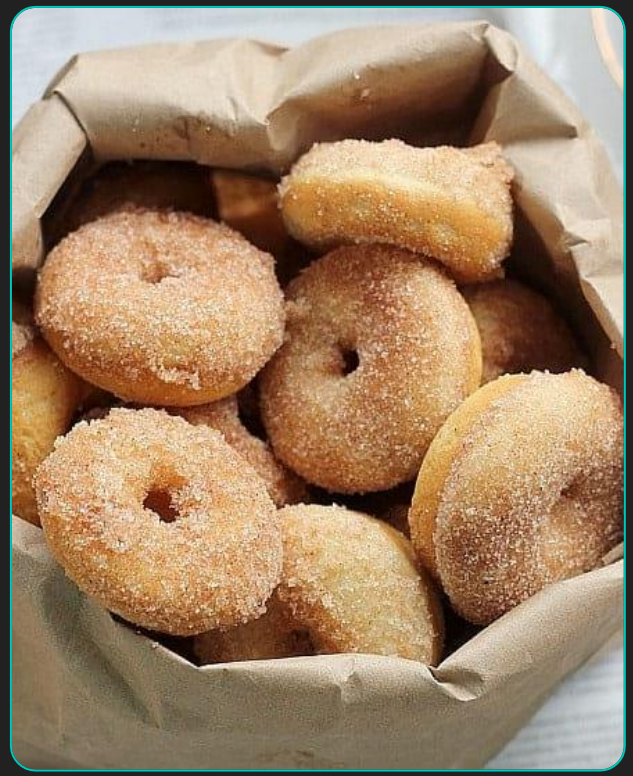
What are data dashboards?

Data Dashboards

- "A data dashboard is a **visual display of the most important** information needed to achieve one or more objectives, with the data consolidated and arranged on a single screen so the information can be monitored at a glance" (Few, 2004).
- Data dashboards can be useful tools to track KPI's in a **timely and engaging manner.**

Key Characteristics of Dashboards

- All visualizations fit on a single screen
- Displays the most important indicators to be monitored over time
- Regular updates of data (ideally automatically)
- Is easy to understand; can be understood and used by anyone with access
- Often includes filtering and 'drill down' functions which enables users to view the data of most interest to them (e.g., filtering by location, age or gender). The visualizations then update to display only data that meet the characteristics chosen.



Source: https://www.betterevaluation.org/en/evaluation-options/data_dashboard

Questions to ask when diving into dashboards

- What question is this dashboard intending to answer?
- How often is this data refreshed?
- What types of comparisons can I do with this dashboard?
- Does the dashboard have some major limitations?
- Where can I find out more about these metrics/KPIs?
- Where can I go for help?

Where does MIS data live?

California Community College Datamart

California Community Colleges Chancellor's Office
Management Information Systems Data Mart

Home | Students | Courses | Student Services | Outcomes | Faculty & Staff

Students/Headcounts

Reports showing student counts, with demographic breakouts if desired, by:

- Annual/Term Student Count
- Enrollment Status
- Day/Evening Status
- Full-time/Part-time Status
- Citizenship Status
- Education Status
- Full-time Equivalent Student (FTES) Counts
- Distance Education (DE) Full-time Equivalent Student (FTES) Counts

Student Services

Reports showing student counts, with demographic breakouts if desired, for students who are participants in programs and or services overseen by the Student Services Division of the Chancellor's Office:

- Student Assessment Summary by Instrument ID
- California Work Opportunity and Responsibility to Kids (CalWORKs)
- Disabled Student Program and Services (DSPS)
- Extended Opportunity Program and Services (EOPS)
- Financial Aid
- Matriculation
- Special Population/Group Student Count
- Student Success Services Student Count

Outcomes

Reports showing student outcomes in enrollments and programs, with demographic breakouts if desired, by:

- Basic Skills Cohort Progress Tracker
- Enrollment Retention and Success Rate
- Grade Distribution
- Program Awards
- Student Success Scorecard Metrics
- Student Success Scorecard Skills Builder Metric
- Transfer Velocity
- System Wage Tracker
- College Wage Tracker
- Transfer Volume

Courses/Calendar

Various reports showing course characteristics such as TOP code, credit status, SAM code, etc. as well as how the course was offered such as day / evening status and accounting method. The reports include:

Faculty & Staff

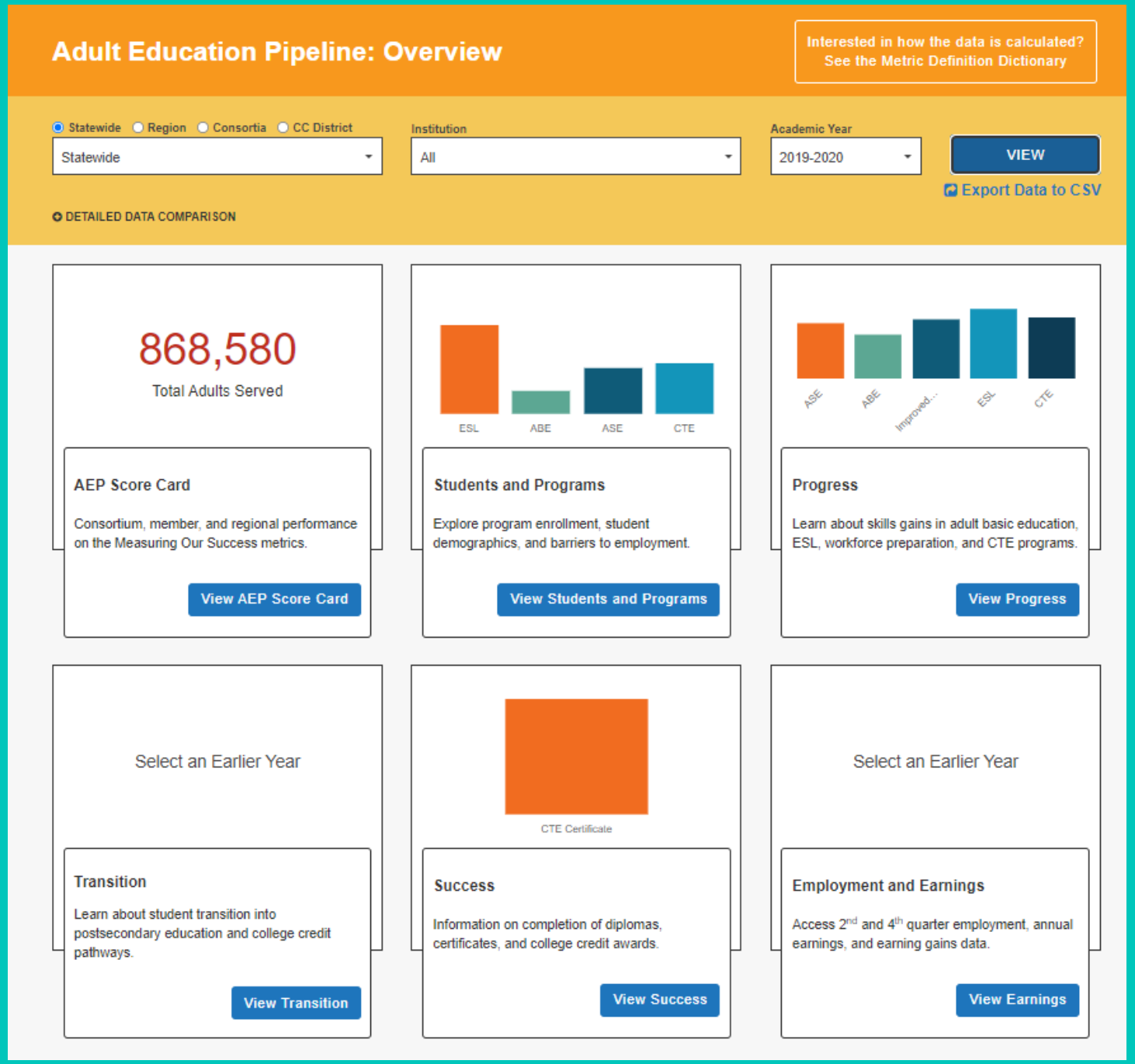
Reports showing faculty and staff:

- Annual Statewide Staffing Reports
- Faculty & Staff Demographics

Adult Education Pipeline (Harpreet Uppal)

What is the purpose of AEP dashboard?

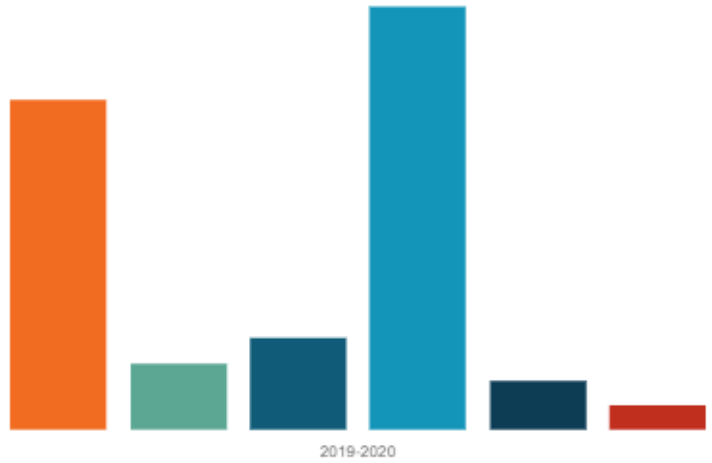
- Examine the outcomes of K-12 Adult Ed/ Noncredit students
- Examines data for:
  - English as a Second Language (ESL)
  - Adult Basic Education (ABE)
  - Adult Secondary Education (ASE)
  - Career Technical Education (CTE) students with high employment potential, including those in workforce preparation, pre-apprenticeship training programs and short-term CTE
  - Programs for adult with disabilities (AWD)
  - Adults training to support child school success



Data Sources:

- Noncredit data for community colleges from the Chancellor's Office Management Information System (MIS)
- Adult education and K-12 data from TOPSPro Enterprise export file provided by CASAS
- Employment and earnings information from the Employment Development Department Unemployment Insurance (UI) wage file
- Transfer to postsecondary information from the National Student Clearinghouse and CSU/UC match

51% of 25,447 adults served had 12 + contact hours (participants) in 2019-2020.



Participants in English as a Second Language (ESL)	39% 5,060/13,045
Participants in Adult Basic Education (ABE)	8% 1,107/13,045
Participants in Adult Secondary Education (ASE)	11% 1,461/13,045
Participants in Career and Technical Education (CTE)	50% 6,536/13,045
Participants in Programs for Adults With Disabilities	6% 728/13,045
Adult Participants Training to Support Child School Success	3% 355/13,045

CAEP Program Areas for NOCE

Who is included in the CAEP Program Areas?

AE 112 Participants in English as a Second Language (ESL) or in Adult Basic Education (ABE) or in Adult Secondary Education (ASE)

COMIS Calculations	AE 202 Participants who met the following criteria: • **Who enrolled in noncredit ESL** WHERE [CB04 = N AND (CB22 IN (A, B) OR CB03 IN (4930.84, 4930.85, 4930.86, 4930.87, 4930.90, 4931.00)] • **OR who enrolled in ABE** OR WHERE [CB04 = N AND (CB03 IN (1701.00, 1501.00, 1520.00) AND CB21 IN (D, E, F, G, H)) OR (CB03 IN 493060)] • **OR who enrolled in ASE** OR WHERE [CB04 = N AND (CB03 IN (1701.00, 1501.00, 1520.00) AND CB21 IN (A, B, C)) OR (CB03 IN 493062)] • **AND in the selected year** AND GI03 is within the selected year • **AND at the selected college** AND at the selected college

- CB 03 – Course TOP Code
- CB 04 – Course Credit Status
  - N = Noncredit
- CB 21 – Course Prior to College Level
- CB 22 – Course Noncredit Category

Who is included in the CAEP Program Areas?

AE 113 Participants in Career and Technical Education

Calculations	AE 202 Participants who met one or more the following criteria: • Either enrolled in Workforce Preparation WHERE (CB04 = N AND CB22 = J) • Or enrolled in a noncredit CTE in courses flagged as vocational by TOP code or as occupational by SAM code OR [CB04 = N AND (CB03 = "*" in TOP_VE_STATUS table OR CB09 IN (A, B, C))] • Or identified as a student participating in a pre-apprenticeship program OR WHERE SB23 = 2 • In the selected year AND GI03 is within the selected year

AE 111: Participants in Programs for Adults with Disabilities

COMIS Calculations	AE 202 Participants who met one or more the following criteria: • Who was enrolled in programs specifically designed to meet the needs of adults with disabilities WHERE CB22 = E • OR who was flagged as having any type of primary disability OR WHERE SD01 IN (M, V, H, D, B, L, P, O, A, U) • In the selected year AND GI03 is within the selected year

AE 106: Participants Training to Support Child School Success

COMIS Calculations	AE 202 Participants who met one or more the following criteria: • Who enrolled in Parenting courses for parents of children in elementary or secondary education WHERE [CB22 = F AND CB03 IN (1305.20, 1305.50, 1305.60, 1305.70, 1308.00)] • In the selected year AND GI03 is within the selected year

- CB 03 – Course TOP Code = *
- CB 09 – Course SAM Priority Code
- SB 23 – Student Apprenticeship Status
- SD 01 – Student Primary Disability

Whose Outcomes are Examined?

NOCE 2019-20

TOTAL REPORTABLE INDIVIDUALS:
25,447

STUDENTS WITH 12+ INSTRUCTIONAL CONTACT HOURS (PARTICIPANTS):
13,045

Students with 12+ Instructional Contact Hours (Participants): 13,045

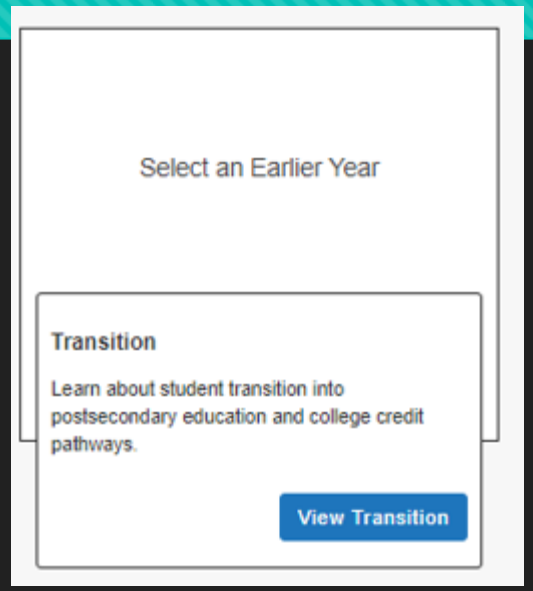
Among all adult education students, the unduplicated count of participants who enrolled in a recognized adult education program and who had 12 or more hours of instruction in the program year except for students enrolled in Spring 2020 where only enrollment in a recognized adult education program is required.

- North Orange Adult, 2019-2020

- **AND EITHER has 12 positive attendance hours in the selected year summed across all noncredit courses in a recognized adult education program: ESL, ABE, ASE, CTE, AWD or Parenting Support**

AND EITHER [CB04 = N WHERE CB03 NOT IN (493009, 493014)
SUM (SX05) ≥ 12 across all colleges and across all six AE programs
WHERE GI03 is within the selected year

Where is my data?

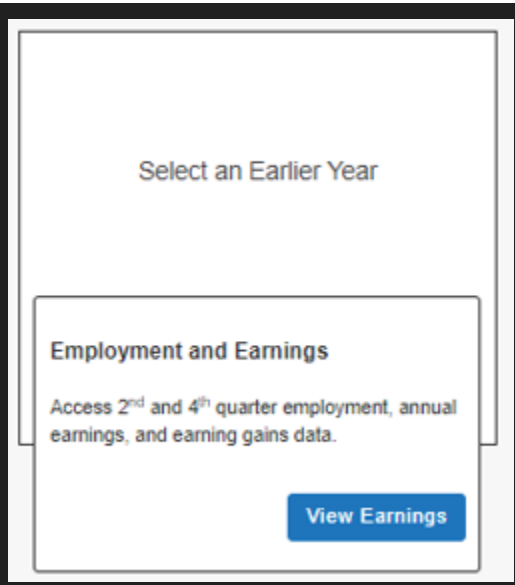


Transition to Postsecondary

Among all ESL, ABE and ASE participants, the number who transition by enrolling in either a K12 adult education or community college noncredit or credit CTE course, or a non-developmental credit college course for the first time at any institution within the selected or subsequent year.

Employment Two Quarters After Exit

Among exiters, the number of participants who were employed two fiscal quarters after exiting adult school.



Learner Journey: Key Metrics

Score Card

- Total Adults Enrolled

Students & Programs

- Participants
- Demographics
- Program
- Barriers to Employment

Progress

- Skills Gains
- Milestone
- Completed transfer-level course
- Persistence

Transition

- ASE
- CTE
- Credit Course
- 6+ Credit Units
- GPA
- Return to AE

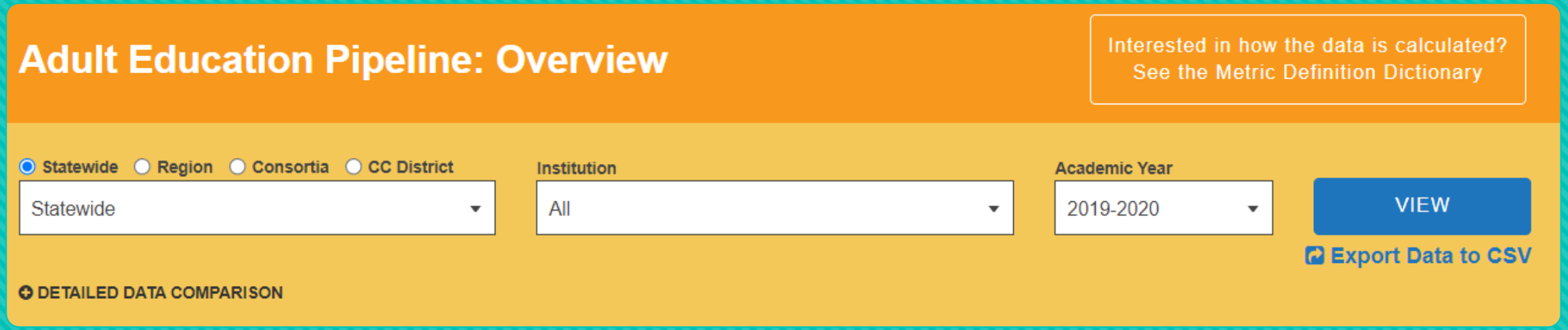
Success

- Earned HSE
- Earned credential or award
- Community College Completers

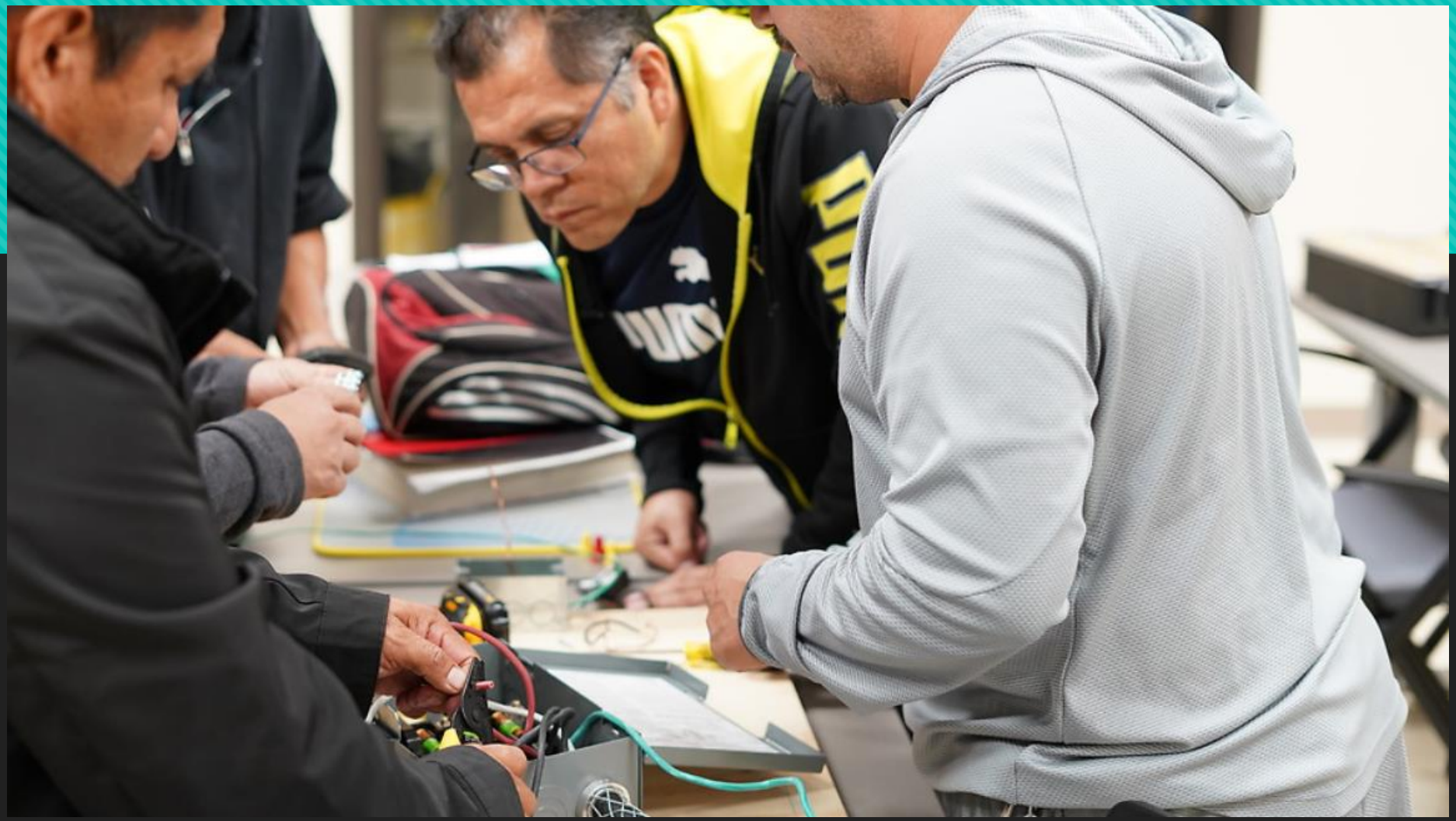
Employment & Earnings

- Employment
- Change in Earnings

Source: WestEd and California Adult Education's Three-Year Consortium Planning Using the AEP Dashboard Presentation (May 5, 2021)



Adult Education Pipeline Dashboard



Strong Workforce Program (Jason Makabali)

What is the purpose of the SWP dashboard?

- Examine the outcomes of students enrolled in the Strong Workforce Program
- Outcomes examined:
  - Earned 9 or More Career Ed Units
  - Attained a Noncredit Workforce Milestone
  - Earned a Degree or Certificate or Attained Apprenticeship
  - Transferred to a Four-Year Postsecondary Institution
  - Job Closely Related to Their Field of Study
  - Median Annual Earnings/Median Change in Earnings
  - Attained the Living Wage

Strong Workforce Program

Completion and employment data for examining long-term outcomes.

Explore

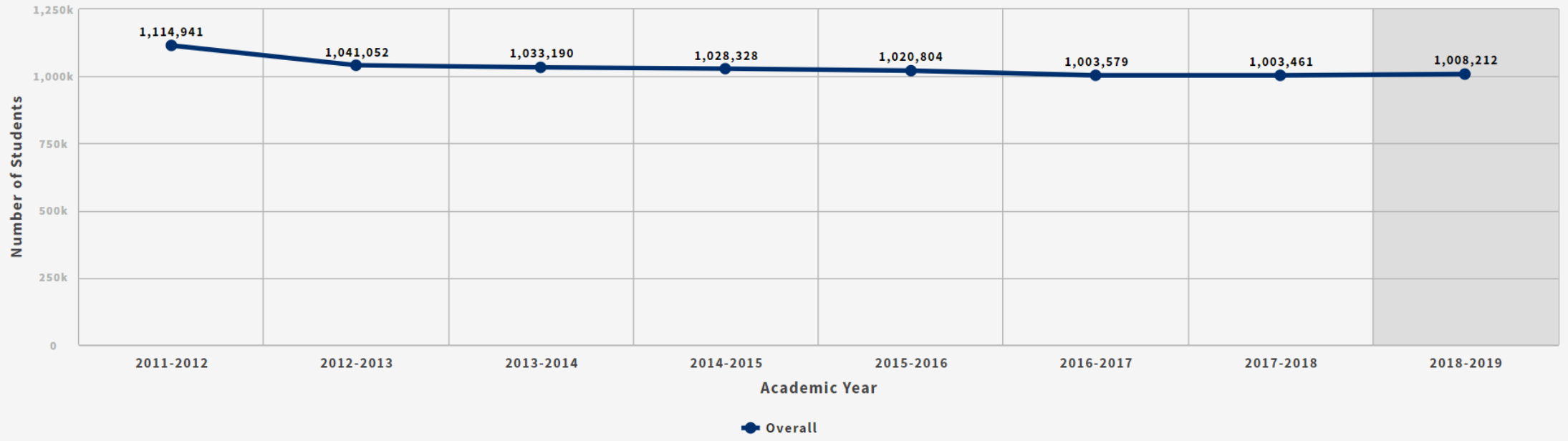
Data Sources:

- Chancellor's Office Management Information System (MIS) files
- Chancellor's Office Curriculum Inventory file to identify Associate Degrees for Transfer provided by Chancellor's Office Management Information System
- CTE Outcomes Survey data
- Transfer to postsecondary information from the National Student Clearinghouse and CSU/UC match
- Attainment of Apprenticeship Journey Status from the Department of Apprenticeship Standards
- Employment Development Department Unemployment Insurance (UI) wage file

Who's Included?

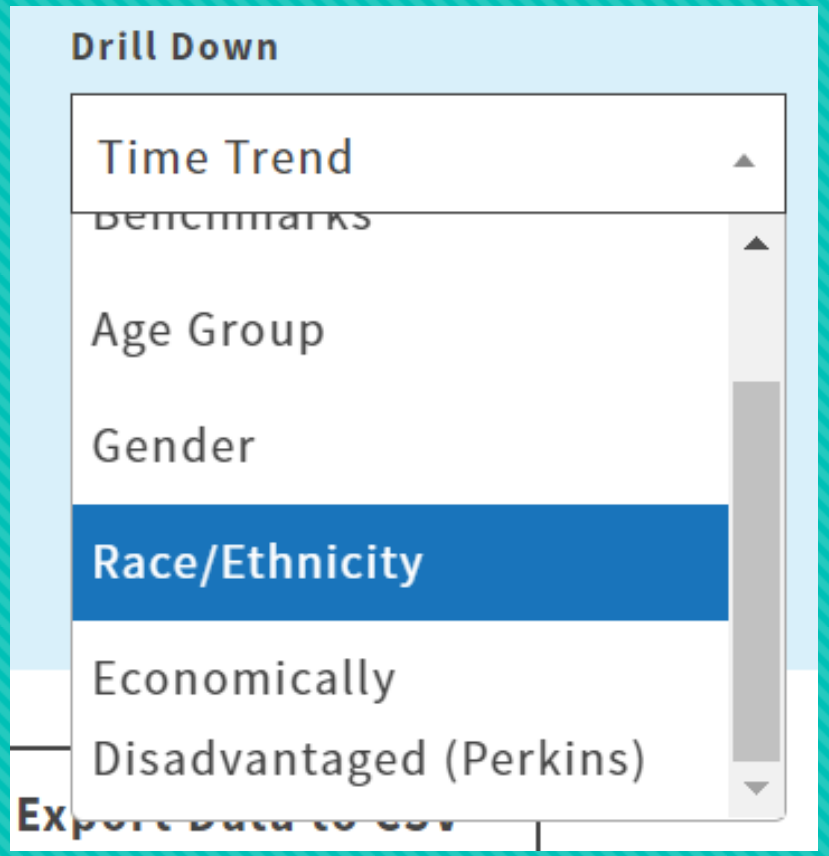
Strong Workforce Program Students

All students enrolled in the selected year who took at least 0.5 units in any single credit course or who had at least 12 positive attendance hours in any noncredit course(s) excluding Special Admit students on a TOP code that is assigned to a vocational industry sector



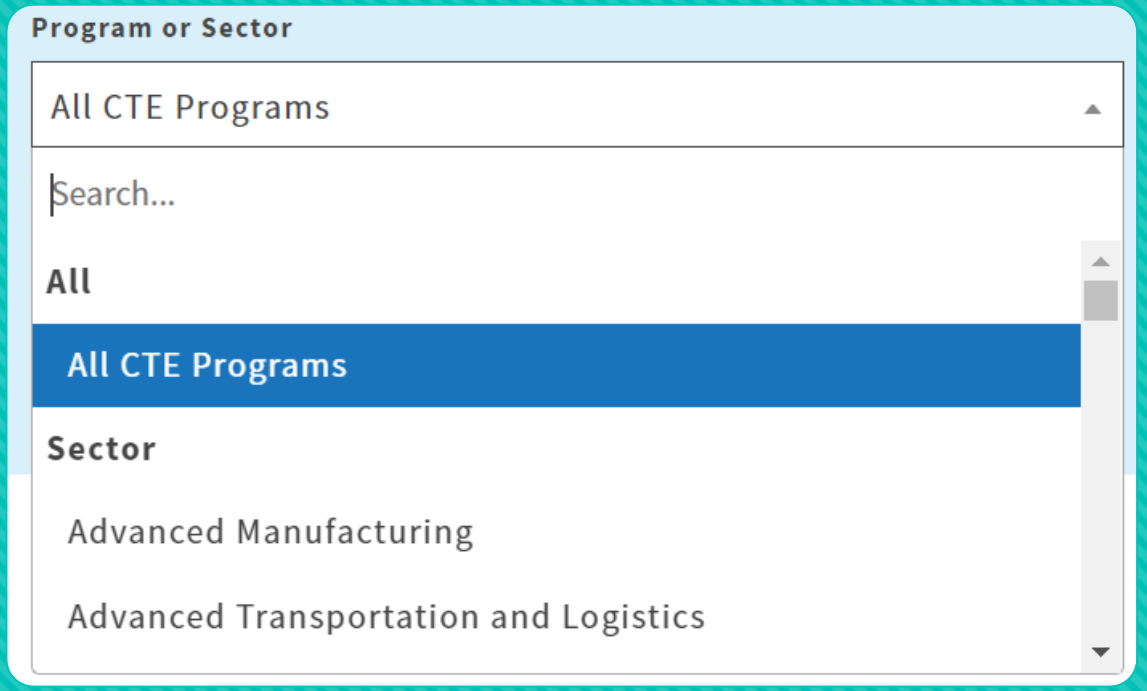
Source: Chancellor's Office Management Information System

- Age Group
- Gender
- Race/Ethnicity
- Economically Disadvantaged (Perkins)



How can we further examine this data?

TOP Code



How can we further examine this data?

TOP Code?

- **ALL** students enrolled in courses with vocational TOP Codes are included in this dashboard! Consult the Taxonomy of Programs 6th Edition Manual!

California Community Colleges

Taxonomy of Programs

February 2004
6th Edition

Revised: June 2012, September 2009, July and March 2007
Corrected: July 2013, November 2004

*Indicates a vocational program.

A Live Demo

California Community Colleges

Strong Workforce Program

Interested in how the data is calculated?
See the Metric Definition Dictionary

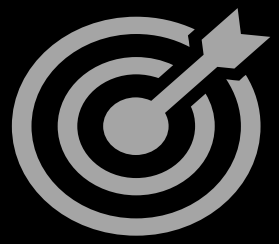
Student Success Metrics (Andy Pham and Juliet Lee)

Data Sources:

- Student goal information from CCC Apply
- Student goal, milestone and completion information from the Chancellor's Office Management Information System (MIS)
- Chancellor's Office Curriculum Inventory file to identify Associate Degrees for Transfer provided by Chancellor's Office Management Information System
- Employment and earnings information from the Employment Development Department Unemployment Insurance (UI) wage file
- Employment and earnings information from the CTE Outcomes Survey
- Transfer to postsecondary information from the National Student Clearinghouse and CSU/UC match
- Attainment of Apprenticeship Journey Status from the Department of Apprenticeship Standards

What is the purpose of SSM dashboard?

- Examine the outcomes of California community college students
- It examines student journey types
  - All students
  - All student – Cohort View
  - Adult Ed/ESL Students
  - Short-Term Career Ed Students
  - Degree/Transfer Students
  - Undecided/Other Students



Importance of Education Goal and Course Coding

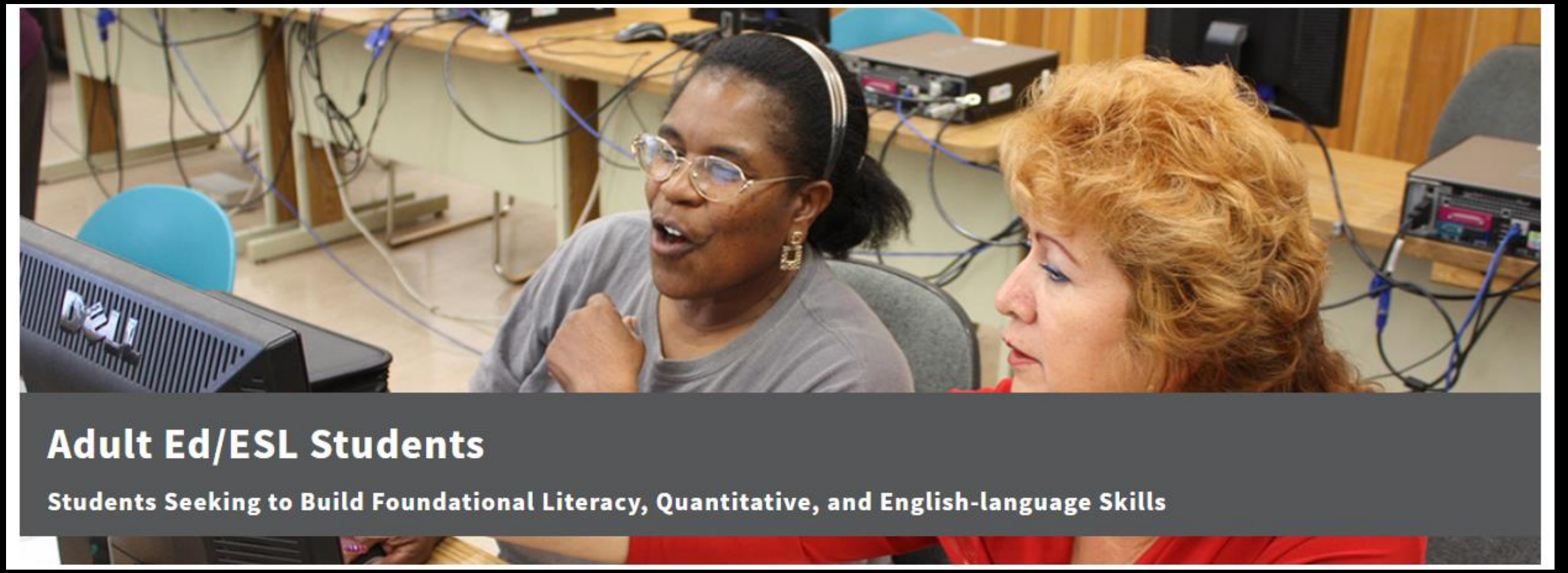
42% of NOCE students did not declare their Ed Goal on their Application for Admission or CCCApply

What is included in this dashboard?

Metrics related to:

1. Successful Enrollment
2. Learning Progress
3. Momentum
4. Success
5. Employment
6. Earnings

Adult Ed/ESL (Andy Pham)



Who is included of the Adult Ed/ESL Student Journey?

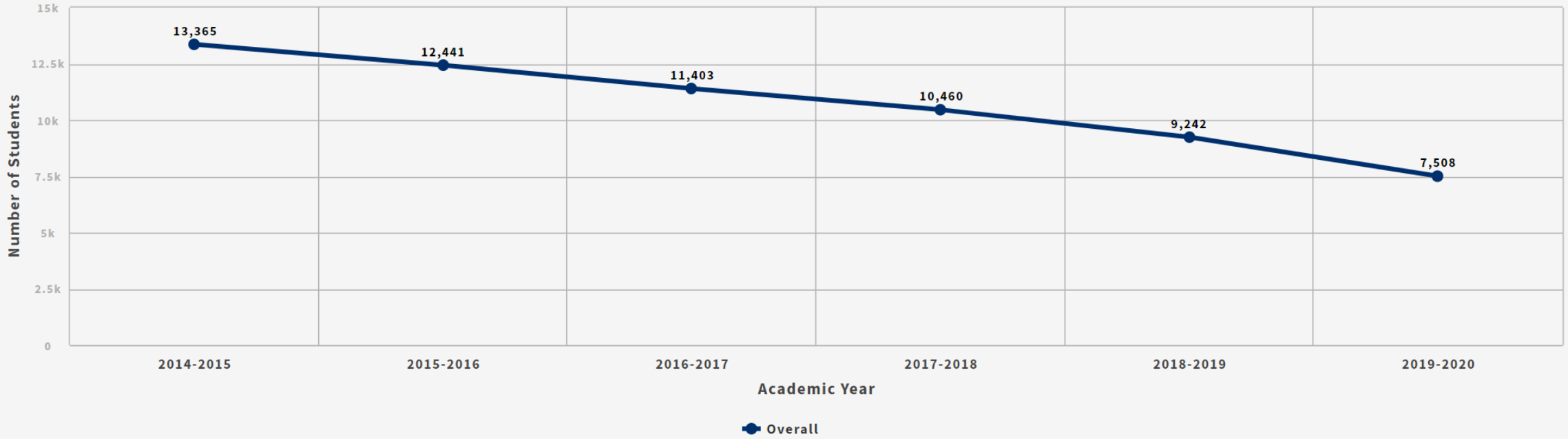
Calculations	**SM 122** students who met one of the three following criteria (informed education goal, uninformed educational goal, or enrollment pattern) are assigned to this journey type: • **First Criteria: Has an informed education goal in the most recent term of the selected year** WHERE [SS01 in (K, L, N) AND GI03 is MAX (GI03) in the selected year AND at the selected college] • **OR Second Criteria: Does not have an informed educational goal but has an informal educational goal in the most recent term of the selected year** OR [SS01 has no value AND SB14 in (K, L, N) AND GI03 is MAX (GI03) in the selected year AND at the selected college] • **OR Third Criteria based on course taking behavior in the selected year: SM 323SW All Students Who Took Noncredit Courses in the Selected Year** • **AND EITHER enrolled in non-credit ESL** AND [EITHER [WHERE CB04 = N AND (CB22 IN (A, B) OR CB03 IN (4930.84, 4930.85, 4930.86, 4930.87, 4930.90, 4931.00))] • **OR enrolled in non-credit ABE** OR [WHERE CB04 = N AND (CB03 IN (1701.00, 1501.00, 1520.00) AND CB21 IN (D, E, F, G, H)) OR (CB03 IN 493060)] • **OR enrolled in non-credit ASE** OR [WHERE CB04 = N AND (CB03 IN (1701.00, 1501.00, 1520.00) AND CB21 IN (A, B, C)) OR (CB03 IN 493062)] • **AND in the selected year** AND GI03 is within the selected year • **AND at the selected college** AND at the selected college]

Who's Included?

STUDENT TYPE

Adult Education/English as a Second Language Students

Students who enrolled in the selected year with a goal of building foundational literacy, quantitative, and English-language skills



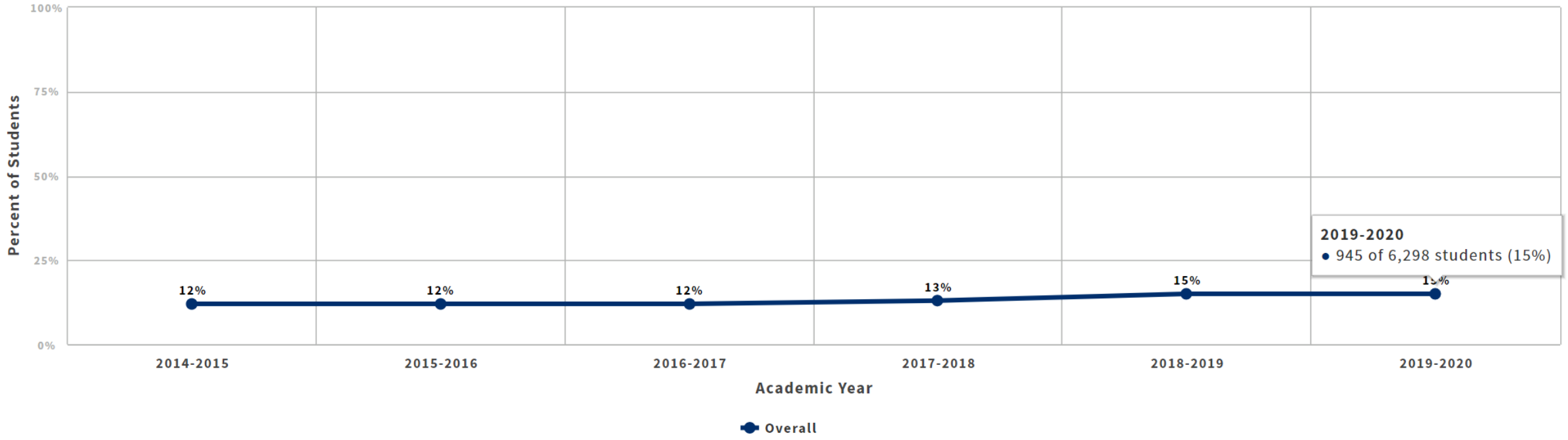
Source: Chancellor's Office Management Information System

Technical Definition

Skills Gain Metric Example

Skills Gain

Among students in selected student journey, the percentage who had one or more skills gains, measured by advancing one or more CB21 or SA07 levels or by improving one or more educational functioning levels in the selected year



Source: Chancellor's Office Management Information System

Technical Definition

Short-Term Career Ed (Juliet Lee)

Who is included of the Short-Term Career Student Journey?

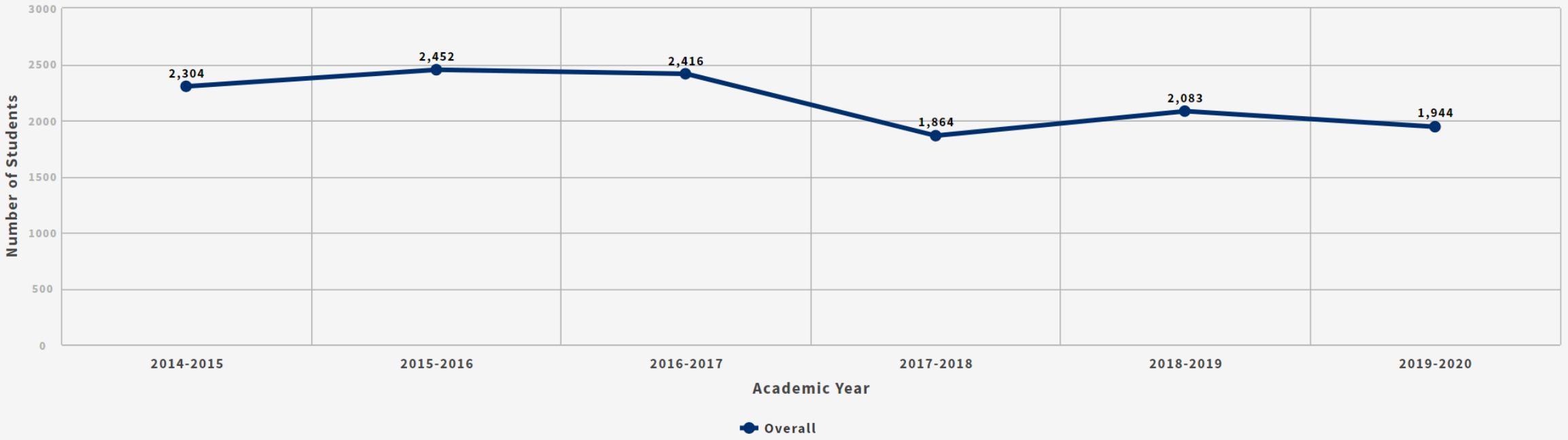
Calculations	SM 122 students who met one of the three following criteria (informed education goal, uninformed educational goal, or enrollment pattern) are assigned to this journey type: • **First Criteria: Has an informed education goal in the most recent term of the selected year** SS01 IN (E, F, G, H, I) AND GI03 is MAX (GI03) in the selected year AND at the selected college • **OR Second Criteria: Does not have an informed educational goal but has an informal educational goal in the most recent term of the selected year** OR [SS01 has no value AND SB14 IN (E, F, G, H, I) AND GI03 is MAX (GI03) in the selected year] • **OR Third Criteria based on course taking behavior in the selected year:** SM 323SW All Students Who Took Noncredit Courses in the Selected Year • **AND EITHER enrolled in workforce prep or CTE in the selected year** AND [EITHER [(CB22 = J) OR (CB03 is equal to "*" in the TOP_VE_STATUS table)) • **AND in the selected year** WHERE GI03 is within the selected year • **AND at the selected college** AND at the selected college]]

Who's Included?

STUDENT TYPE

Short-Term Career Students

Students who enrolled in the selected year with a goal of building skills to enter or advance in their careers



Source: Chancellor's Office Management Information System

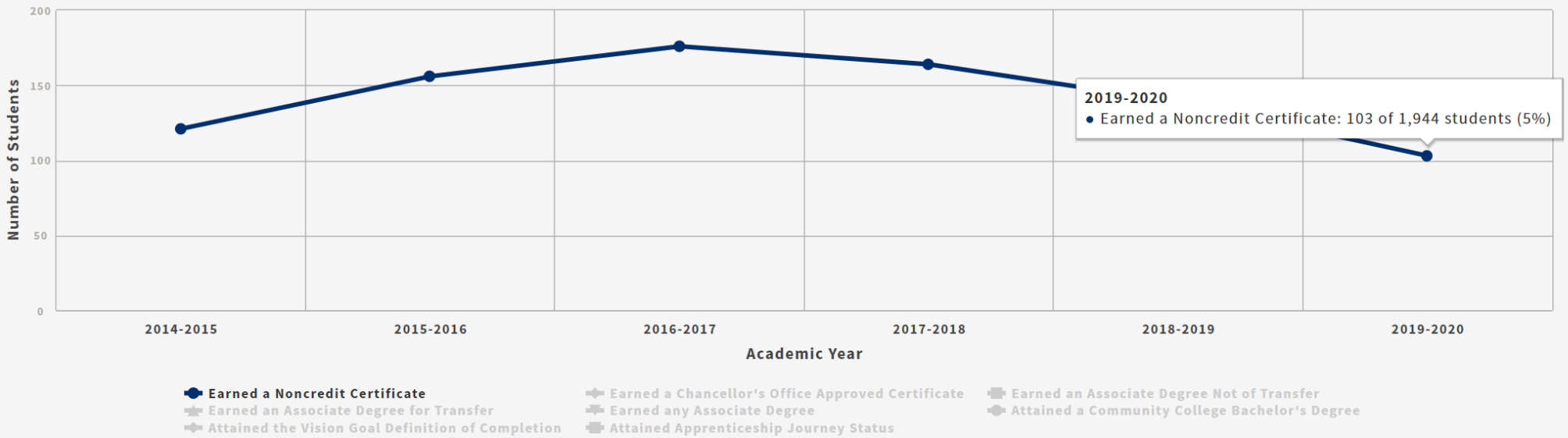
Technical Definition

Success Metric Example

SUCCESS

Transitioned to Postsecondary or Earned an Award

Among students in selected student journey, the number of students who earned various types of awards in the selected year or attained apprenticeship journey status and the number of adult basic education, adult secondary education, and English as a Second Language students who enrolled in either a noncredit career education course or any college level credit course in the selected or subsequent year



Data are suppressed according to FERPA to protect students' personally identifiable information. Suppression takes place when too few students are included in the metric.

Source: Chancellor's Office Management Information System, Chancellor's Office Curriculum Inventory, Department of Apprenticeship Standards

Technical Definition

In what ways do the dashboards differ?

Metric Type	Student Success Metrics	Strong Workforce Program	Adult Education Program
Successful Enrollment	Applicants who indicated an intent to enroll in the selected year and who enrolled in that year at the same college or at any college	N/A	N/A
Learning Progress	Students with an adult education or ESL skills gain	N/A	Same definition as Student Success Metrics, for adult ed participants
Momentum	Students who completed 9+ career education units	Same definition as Student Success Metrics, for all CTE students meeting minimal enrollment requirement	Completed 6+ college credit units for the first time, for adult ed participants who transitioned to non-developmental credit college course
Earnings	Median annual earnings, for exiting students who did not transfer	Same definition as Student Success Metrics for all CTE students with minimal enrollment requirement	Same definition as Student Success Metrics, for adult ed participants

Source: Alignment of Student Success Metrics to Other Initiatives

Let's Start Data Mining!

NOCE
NORTH ORANGE
CONTINUING EDUCATION

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