



CTE Articulation Credit-by-Exam

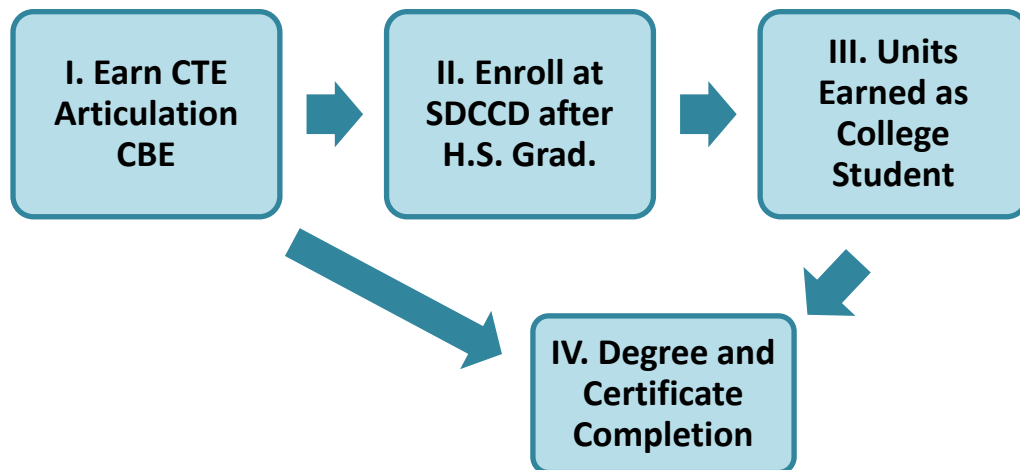
Re-enrollment and Enrollment in Pathway, SDUSD

Students who Graduated High School 2020 to 2022

March 6, 2023

This briefing provides a summary of re-enrollment and enrollment in pathway data for the Career Technical Education (CTE) Articulation Credit-by-Exam (CBE) partnership between San Diego Community College District (SDCCD) and the San Diego Unified School District (SDUSD). For analysis of articulation enrollment and outcomes see the [2021-22 Report](#) and [Dashboard](#).

Re-enrollment and pathway enrollment analyses track students who earned CTE Articulation CBE after high school graduation, reports how many students enrolled at SDCCD after high school graduation, and identifies students who enrolled at SDCCD in credit pathways related to their CTE Articulation CBE coursework. This briefing also identifies students who earned awards after earning CTE Articulation CBE credit and identifies award earners who completed an award related to their CBE credit. It should be noted that enrollment at SDCCD as a college students is not required to earn an award – students may complete certificates, and even associate degrees, while in high school.



CTE Articulation CBE provides students in SDUSD high schools with an opportunity to earn college credit through demonstrating mastery in pre-approved CTE courses offered at their high schools. The goals of this process include supporting students to get an early start on their pathway to a college degree and/or career in a CTE field, transition from high school to community college to earn a certificate, degree, and/or meet the requirements to transfer to a four-year college or university in a CTE field, and earn the necessary credentials to be successful professionals in their fields.

San Diego City, Mesa, and Miramar Colleges partner with the San Diego Unified School District to identify courses in pathways that facilitate these goals. Under the resulting course articulation credit-by-exam agreements, students who are able to demonstrate content and skill area mastery at the college-level become eligible for college credit at City College, Mesa College, and/or Miramar College.

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Definitions

Agreement: A college faculty-developed document under which eligible students may receive college credit for high school CTE coursework.

Enrollments: Duplicated instances of students taking classes. One student taking two classes is counted twice.

Re-enrollment: Students who graduated high school then enrolled as a college student as of production of this report (February 23, 2023). Re-enrollment rates for the class of 2020 will be higher due to a longer re-enrollment window (three academic years) compared to the class of 2022 (one academic year to re-enroll). Further, SDCCD enrollment data for the 2022-23 academic year was in-progress as of the production of this report; some additional students may enroll in late-start classes during the Spring of 2023.

Enrolled in Pathway: Students who enrolled at San Diego City, Mesa, and Miramar Colleges **and** enrolled in a course related to their Credit-by-Exam were identified as Enrolled in Pathway. Pathway enrollment was determined through two steps. First, all certificates and degrees that include the CTE Articulation CBE course were identified. Second, all courses required or optional for that award or certificate were identified. If a student enrolled as a college student in any of those courses, they were counted as Enrolled in Pathway. See Figure 1 on the next page for more detail.

Earned Award: Students who earned Associate Degrees, Credit Certificates, or non-Credit Certificates.

Earned Award in Pathway: Students who earned Associate Degrees or Credit Certificates for which their Credit-by-Exam was applicable. I.e. CBE for ARTG125 could apply to 3 different Associate degrees and 3 Certificates of Achievement; if a student earned CBE for ARTG125 and then was awarded any of those 6 awards, they were counted as Earned Award in Pathway.

Received Credit: A student who earned credit-by-exam for a high school CTE course articulated to a college course.

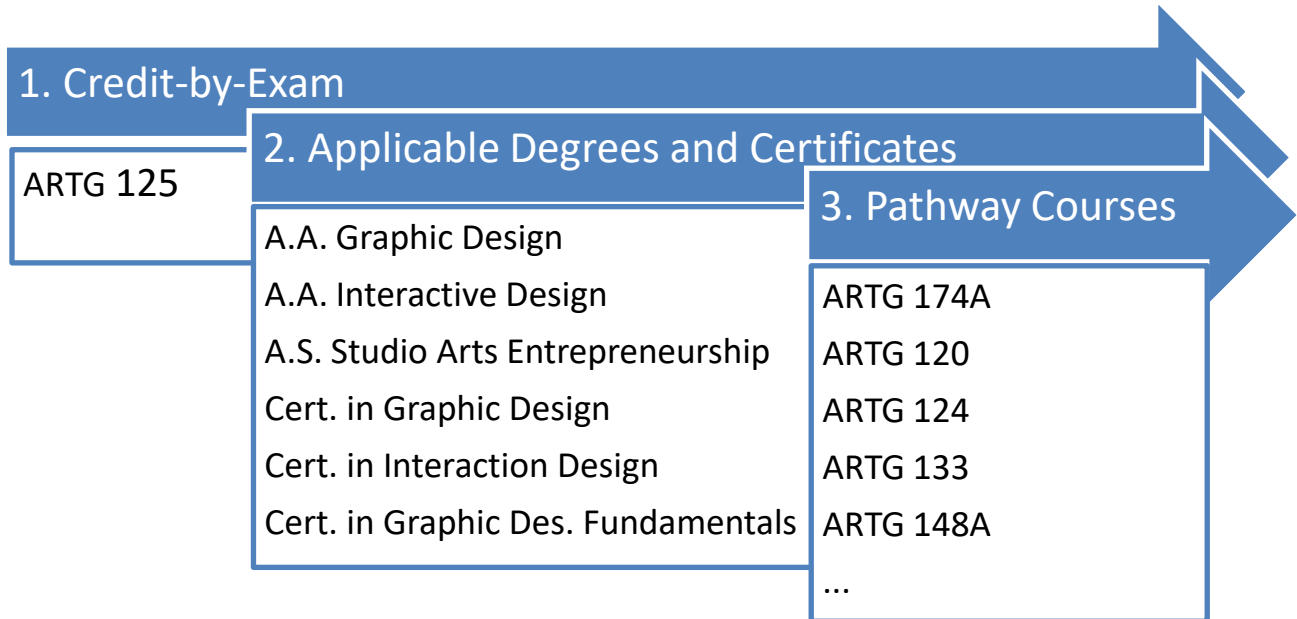
Focus of Analysis

This briefing provides information about students who earn CTE Articulation Credit-by-Exam (CBE) and enroll at San Diego City, Mesa, or Miramar Colleges following high school graduation. The cohorts included in this report are high school graduates of 2020, 2021, and 2022.

This briefing also provides information about the number of students who re-enroll in a pathway related to their credit-by-exam. This analysis shows how many students leverage their early college credit by applying it towards college degrees and certificates. This analysis utilized the **Program Course Inventory**, which includes all courses that apply to all degrees and certificates offered by San Diego City, Mesa, and Miramar Colleges. The process is outlined below:

1. Identify all degrees and certificates to which each CTE Articulation CBE course applies.
2. Identify all other courses that are required or optional for degrees and certificates identified in Step 1. These courses are referred to as “pathway courses.”
3. For each agreement that a student received Credit-by-Exam, determine if that student:
 - a. Enrolled as a college student at San Diego City, Mesa, or Miramar Colleges following high school graduation.
 - b. Enrolled in one or more pathway courses.
4. Identify if the student earned any degree or certificate and indicate. Identify if degrees or certificates were any of those identified in Step 1.

Figure 1. Pathway Enrollment Analysis Procedure, with Example



Note. CACM101 and CBTE 101 were not included in 2021-22 Program Course Inventory, so no Pathway courses were available for analysis for these two CTE Articulation Credit-by-Exam agreements.

Executive Summary

- 1,570 CTE Articulation Credit-by-Exam (CBE) students who graduated between 2020 and 2022 enrolled at San Diego City, Mesa, or Miramar Colleges as college students, or 31% of CBE earners.

The percent of CTE Articulation CBE students enrolling in college courses in award or degree pathways related to their CBE has increased marginally, from 17% of the class of 2020 to 23% of the class of 2022, or 111 students.

See Section 1: **Overall Re-enrollment and Pathway Rates** on page 7 for more detail.

- The seven CTE Articulation CBE agreements below are identified by this report as high-yield, meaning a high count and percent of credit earners enroll as college students at City, Mesa, and Miramar.

- RTVF 146
- CACM 101
- PHOT 143
- MULT 121
- BIOL 131
- CHIL 160
- CHIL 161. *This agreement is articulated through Miramar and Mesa Colleges – re-enrollment rates are higher for students who earn credit through Miramar (39%) than Mesa (27%).*

See Section 2: **Re-enrollment by Agreement** on page 9 for more detail.

- The high schools with the most re-enrollees from the graduating classes of 2020, 2021, and 2022 were Kearny, University City High School, Scripps Ranch, Mira Mesa, and Henry.

While the number of re-enrollees has decreased by more than half at Kearny and University City High School over the last three graduating classes, Mira Mesa, Henry, and Canyon Hills have yielded generally increasing re-enrollee counts over that time.

In some cases, re-enrollment rate varies within each high school site by agreement. See Section 3: **Re-enrollment by High School** on page 11 for more detail.

- 323 students enrolled in pathways related to high school CTE Articulation CBE coursework, or 21% of those who enrolled as college students following high school graduation. Pathway enrollment rates have increased from 17% of 2020 re-enrollees to 23% of 2022 re-enrollees.

Over half of students who earned credit-by-exam for EDUC203, RTVF 124, CHIL 160, NUTR 160, MFET 101, FIPT 101, and CISC 150 and enrolled as college students also enrolled in courses related to awards relevant to their credit-by-exam.

See Section 4: **Pathway Enrollment** on page 13 for more detail.

- 105 students earned Associate Degrees, Credit Certificates, or non-Credit Certificates after earning CTE Articulation Credit-by-Exam (CBE). Of these, 13 were in the CBE pathways; 12 of these awards were the 8-unit Biotechnology Certificate from Miramar College, which is part of a pathway for Biology 131.

See Section 5: **Award Earners** on page 15 for more detail.

Dashboard Use Notes

This briefing includes information about CTE Articulation CBE agreements that are active at all three credit colleges and 21 public SDUSD high schools. Highlights about high-yield agreements, re-enrollment trends, and pathway enrollment are provided. In some places, explorations of variation by high school site are provided.

The [CTE Articulation CBE Re-enrollment and Enrollment in Pathway dashboard](#) allows users to disaggregate by a number of factors:

- High school at which student earned CBE
- The college with the active articulation agreement that awarded the credit
- Whether or not the student has graduated (students graduating after 2022 excluded by default to accurately report re-enrollment rates)
- Ethnicity
- Gender
- Year in which high school coursework completed

1 High School (All) 2 College of Credit (All) 3 H.S. Graduation Status Graduated 4 Ethnicity (All) 5 Gender (All) 6 Coursework Comple...

H.S. Grad. Yr.	Received Credit	Count Re-enrolled	% Re-Enrolled	Count Enrolled in Pathway	% of Re-enrolled who Enrolled in Pathway	Count Earned Award	Count Earned Award in CBE Pathway	Coursework Comple...
Grand Total	5,071	1,570	31%	323	21%	105	13	<input checked="" type="checkbox"/> (All)
2020	1,485	572	39%	100	17%	85	8	<input checked="" type="checkbox"/> 2016-17
2021	1,635	523	32%	112	21%	12	3	<input checked="" type="checkbox"/> 2017-18
2022	1,951	475	24%	111	23%	8	2	<input checked="" type="checkbox"/> 2018-19
								<input checked="" type="checkbox"/> 2019-20
								<input checked="" type="checkbox"/> 2020-21
								<input checked="" type="checkbox"/> 2021-22

Use the "Disaggregate By" drop-down menu to show data organized by High School or Ethnicity.

Select Emphasis: None | H.S. Graduation Status: Graduated | College of Credit: (All) | High School: (All) | Disaggregate By: High School

	Received Credit	Count Re-enrolled	% Re-Enrolled	Count Enrolled in Pathway	% of Re-enrolled who Enrolled in Pathway	Count Earned Award	Count Earned Award in CBE Pathway	H.S. Grad. Yr.
Grand Total	5,071	1,570	31%	323	21%	105	13	<input checked="" type="checkbox"/> (All)
Canyon Hills	211	79	37%	15	19%	5	0	<input checked="" type="checkbox"/> 2020
Clairemont	122	41	34%	5	12%	0	0	<input checked="" type="checkbox"/> 2021
Crawford	3	0	0%	0	0%	0	0	<input checked="" type="checkbox"/> 2022
East Village	11	4	36%	0	0%	2	0	<input checked="" type="checkbox"/> CBE College Course ^o
Garfield	90	16	18%	10	63%	0	0	<input checked="" type="checkbox"/> (All)
Henry	689	134	19%	36	27%	4	0	<input checked="" type="checkbox"/> ARTG 125
Hoover	197	55	28%	2	4%	0	0	<input checked="" type="checkbox"/> BIOL 131
Kearny	405	205	51%	21	10%	23	0	<input checked="" type="checkbox"/> BUSE 100
La Jolla	204	43	21%	7	16%	0	0	<input checked="" type="checkbox"/> CACM 101
								<input checked="" type="checkbox"/> CBTE 101
								<input checked="" type="checkbox"/> CBTE 120
								<input checked="" type="checkbox"/> CHIL 160
								<input checked="" type="checkbox"/> CHIL 161

1. Overall Re-enrollment and Pathway Rates

1,570 CTE Articulation Credit-by-Exam (CBE) students who graduated between 2020 and 2022 enrolled at San Diego City, Mesa, or Miramar Colleges as college students, or 31% of CBE earners.

See Table 1 below for full detail. Re-enrollees are a subset of those who received credit, and Pathway Re-enrollees are a subset of re-enrollees. Counts of students who earned CBE but have not graduated are included; these numbers will increase in subsequent years.

The re-enrollment rate is higher for students who graduated high school in 2020 (39%) than students who graduated in 2021 (32%) and 2022 (24%). This is partially because students from 2020 count as re-enrollees if they enroll as college students in the 2020-21, 2021-22, or 2022-23 academic years, while students from the class of 2022 have only one year to re-enroll. Additionally, students graduating high school in 2020 did so online due to the COVID-19 Pandemic, and many deferred enrollment in a four-year university that year, instead opting to enroll at local community colleges.

Re-enrollment rates are lower for CTE Articulation CBE than for dual and concurrent enrollment programs. Re-enrollment data across all early college credit programs¹ shows higher one-year re-enrollment rates concurrent students (34%) and CCAP students (30%) than CBE students (25%).

The percent of CTE Articulation CBE students enrolling in college courses in award or degree pathways related to their CBE has increased marginally, from 17% of the class of 2020 to 23% of the class of 2022, or 111 students (out of 475 re-enrollees).

This increase may be attributed to increased clarity around degree and certificate requirements related to Guided Pathways. For more information about pathway enrollment, see Section 4.

105 CBE students earned awards, although only 13 of those awards were in pathways related to the CBE course. For more information about awards, see section 5.

Table 1. Overall Count of Students who Received Credit, Re-enrolled, and Enrolled in Pathway

Graduation Status	H.S. Grad. Yr.	Received Credit	Count Re-enrolled	% Re-Enrolled	Count Enrolled in Pathway	% of Re-enrolled in Pathway	Count Earned Award	Awards in CBE Pathway
Graduated	2020	1,485	572	39%	100	17%	85	8
	2021	1,635	523	32%	112	21%	12	3
	2022	1,951	475	24%	111	23%	8	2
	Total	5,071	1,570	31%	323	21%	105	13
Not Graduated	*2023	1,490	---	---	---	---	2	---
	*2024	1,189	---	---	---	---	---	---
	*2025	669	---	---	---	---	---	---
	Total	3,348	0	0%	0	---	2	0

Note 1. This table includes students who earned CTE Articulation CBE from San Diego City, Mesa, or Miramar colleges for coursework at a public San Diego Unified School District (SDUSD) high school between 2016-17 and 2021-22.

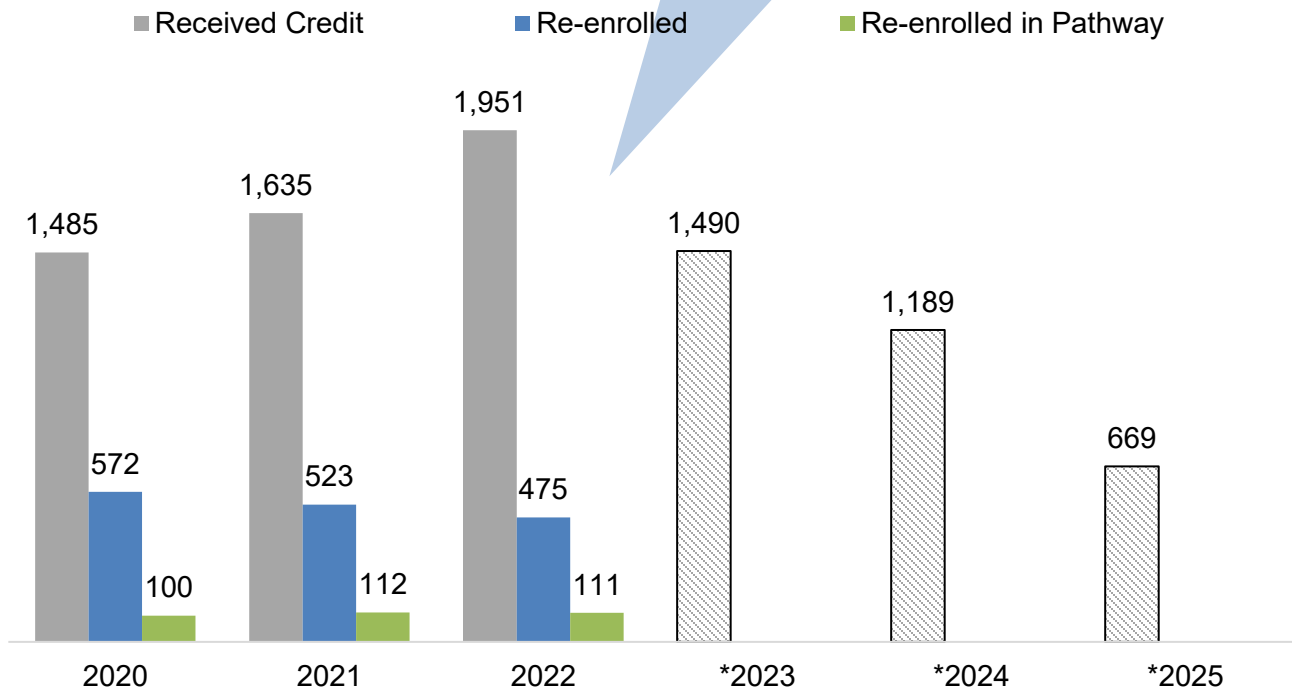
Note 2. Values for high school graduation classes of 2023, 2024, and 2025 will increase in subsequent years.

¹ Data available in the [Early College Credit Re-enrollment Dashboard](#). Rates noted here are for students who graduated in 2021 and had earned early college credit between 2017-18 and 2020-21.

Figure 1 shows, by graduation class, the count of students who earned credit, those who earned credit and re-enrolled at San Diego City, Mesa, or Miramar, and those who re-enrolled in pathways related to their CBE. Re-enrollees are a subset of those who received credit, and Pathway Re-enrollees are a subset of re-enrollees.

1,951 SDUSD students who graduated in 2022 earned CTE Articulation CBE. Nearly 1 in 4 of those 1,951 students enrolled at SDCCD after high school graduation (475, or 24%). Of those 475 re-enrollees, 111 (23%) enrolled in pathways related to their CBE.

Figure 2. Received Credit, Re-enrolled, and Enrolled in Pathway, by Graduation Year



Note 1. This figure includes students who earned CTE Articulation CBE from San Diego City, Mesa, or Miramar colleges for coursework at a public San Diego Unified School District (SDUSD) high school between 2016-17 and 2021-22, and graduated high school between 2020 and 2022.

Note 2. Data incomplete for high school classes of 2023, 2024, 2025. Data for those years reflects credit earned through the 2021-22 academic year by students in those graduating classes – these students earned credit-by-exam in 9th, 10th, or 11th grade.

2. Re-enrollment by Agreement

CTE Articulation CBE agreements that yielded both a high **percent** and high **count** of re-enrollees from the high school graduating classes of 2020, 2021, and 2022 are listed below. **These agreements had both re-enrollment rates above the overall average (31%) and more than 50 re-enrollees.**

Agreements for both Child Development 160 and 161 yielded high a volume and rate of re-enrollees. Radio, Television, and Film 146 and Culinary Arts/Culinary Management 101 were also high-yield agreements. While Biology 131 has a re-enrollment rate similar to the overall rate (31%), the high volume of credit earners (343 over the last three cohorts) leads to a higher volume of re-enrollees.

The decreasing volume of re-enrollees for Multimedia 121 over the three cohorts shown is due to the deactivation of that agreement in 2019-20.

Table 2. High Re-enrollee Yield Agreements and Articulation Detail

College Course	College Course Description	High School Course Name
RTVF 146	TV Field News Reporting	Broadcast Journalism
CACM 101	Sanitation, Safety & Equipment	Culinary Arts Management
CHIL 161*	Observing & Understanding Children	Developmental Psychology of Children 3 and 4
PHOT 143	Introduction to Digital Photography	Photographic Imaging
MULT 121		
BIOL 131	Intro to Biotechnology	Biotechnology or Medical Interventions
CHIL 160	Observing & Understanding Children	Developmental Psychology of Children 1 and 2

*This agreement is articulated through Miramar and Mesa Colleges – re-enrollment rates are higher for students who earn credit through Miramar (39%) than Mesa (27%).

Table 3. High Re-enrollee Yield Agreements, Trends in Re-enrollment last three Cohorts

	Received Credit, Total	Count Re-enrolled				% Re-enrolled			
		2020	2021	2022	Total	2020	2021	2022	Total
RTVF 146	235	32	40	26	98	60%	46%	27%	42%
CACM 101	278	32	30	28	90	41%	34%	25%	32%
CHIL 161	163	15	25	19	59	68%	35%	28%	36%
PHOT 143	162	12	15	25	52	43%	38%	27%	32%
MULT 121	131	52	3	0	55	46%	19%	0%	42%
BIOL 131	343	48	30	27	105	38%	29%	24%	31%
CHIL 160	312	22	45	30	97	29%	34%	29%	31%

Note. This table includes students who earned CTE Articulation CBE from San Diego City, Mesa, or Miramar colleges for coursework at a public San Diego Unified School District (SDUSD) high school between 2016-17 and 2021-22.

Table 4 on the next page is sorted by the **count** of credit-earners who enrolled at one of the credit colleges following high school graduation (“Count Re-Enrolled”). Agreements with high re-enrollment rates (40% or higher) highlighted in **green**.

Agreements that yielded high counts of enrollees (top of Table 4 below) have re-enrollment rates between 25% and 35%. These agreements are active at a wide variety of sites, and re-enrollment rates vary significantly by high school. See the [dashboard](#) to explore trends by agreement and high school.

Table 4. Re-enrollment Count by Agreement

	Received Credit	Count Re-enrolled	% Re-Enrolled	Count stayed in Pathway	% of Enrolled who stayed in Pathway
Grand Total	5,071	1,570	31%	323	21%
ENGN 130	1,060	265	25%	0	0%
ENGE 101	707	202	29%	60	30%
BIOL 131	343	105	31%	49	47%
RTVF 146	235	98	42%	8	8%
CHIL 160	312	97	31%	76	78%
CACM 101	278	90	32%	0	0%
ARTG 125	313	84	27%	13	15%
CHIL 161	163	59	36%	23	39%
MULT 121	131	55	42%	0	0%
PHOT 143	162	52	32%	13	25%
MULT 122	122	51	42%	0	0%
MULT 120	96	49	51%	4	8%
CBTE 161	149	45	30%	0	0%
MULT 101	96	38	40%	0	0%
MULT 123	78	36	46%	0	0%
EDUC 200	124	34	27%	12	35%
GISG 110	59	32	54%	3	9%
MULT 100	63	28	44%	11	39%
CBTE 101	129	26	20%	0	0%
CBTE 120	110	21	19%	0	0%
PHOT 243	49	17	35%	3	18%
DRAM 123	38	17	45%	5	29%
NUTR 160	40	16	40%	10	63%
RTVF 124	35	14	40%	11	79%
EDUC 203	34	10	29%	8	80%
CISC 150	63	10	16%	6	60%
MFET 101	22	8	36%	5	63%
FIPT 101	31	5	16%	3	60%
MEDA 055	17	2	12%	0	0%
HOSP 101	8	2	25%	0	0%
BUSE 100	4	2	50%	0	0%

Note. This table includes students who earned CTE Articulation CBE from San Diego City, Mesa, or Miramar colleges for coursework at a public San Diego Unified School District (SDUSD) high school between 2016-17 and 2021-22, and graduated high school between 2020 and 2022.

3. Re-enrollment by High School

The high schools with the most re-enrollees from the graduating classes of 2020, 2021, and 2022 were Kearny (205 students re-enrolled, 51% of those who received credit), University City High School (202 students, 38%), Scripps Ranch (200 students, 32%), Mira Mesa (182 students, 46%), and Henry (134 students, 19%).

While the number of re-enrollees has decreased by more than half at Kearny and University City High School over the last three graduating classes, Mira Mesa, Henry, and Canyon Hills have yielded generally increasing re-enrollee counts over that time.

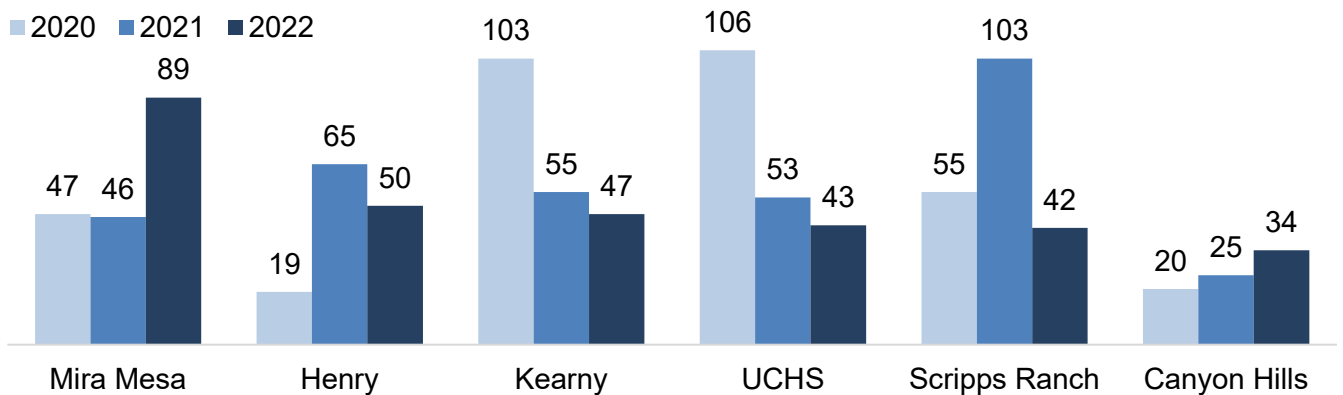
High schools geographically near the credit colleges generally yield higher volumes of re-enrollees, such as Mira Mesa, Kearny, and SDHS. While re-enrollee volume has increased at Mira Mesa, it has decreased over the last three graduating classes at Kearny (from 103 re-enrollees in 2020 to 47 in 2021) and SDHS (not shown below, see Table 5; from 60 re-enrollees in 2020 to 13 in 2022).

See Table 5 on the next page for re-enrollee volume across all SDUSD high schools.

Re-enrollee volume and rate at some high school sites varies by agreement. Notable trends within each site are noted below:

- Mira Mesa: All agreements with more than 10 credit-earners over last three years had higher than 39% re-enrollment rates.
- Henry: Most agreements had relatively low rates (between 15% and 20%), but volume was high.
- Kearny: More than half of students who earned CBE for ENGE101 and GISG110 re-enrolled. Half of students who earned CBE for Multimedia agreements re-enrolled.
- UCHS: More than half of students who earned CBE for Child Development re-enrolled.
- Scripps Ranch: Re-enrollment rates for EDUC 200 and 203 were highest (43%, 50%), followed by ENGE 101 (39%).
- Canyon Hills: Re-enrollment rates for agreements with more than 10 re-enrollees were all between 30% and 44%.

Figure 3. Re-enrollees by High School and H.S. Graduation Year, Top 6 by Volume in 2022



Note. This figure includes students who earned CTE Articulation CBE from San Diego City, Mesa, or Miramar colleges for coursework at a public San Diego Unified School District (SDUSD) high school between 2016-17 and 2021-22, and graduated high school between 2020 and 2022.

Table 5. Count of Re-enrollees by High School and H.S. Graduation Year, 2020, 2021, 2022

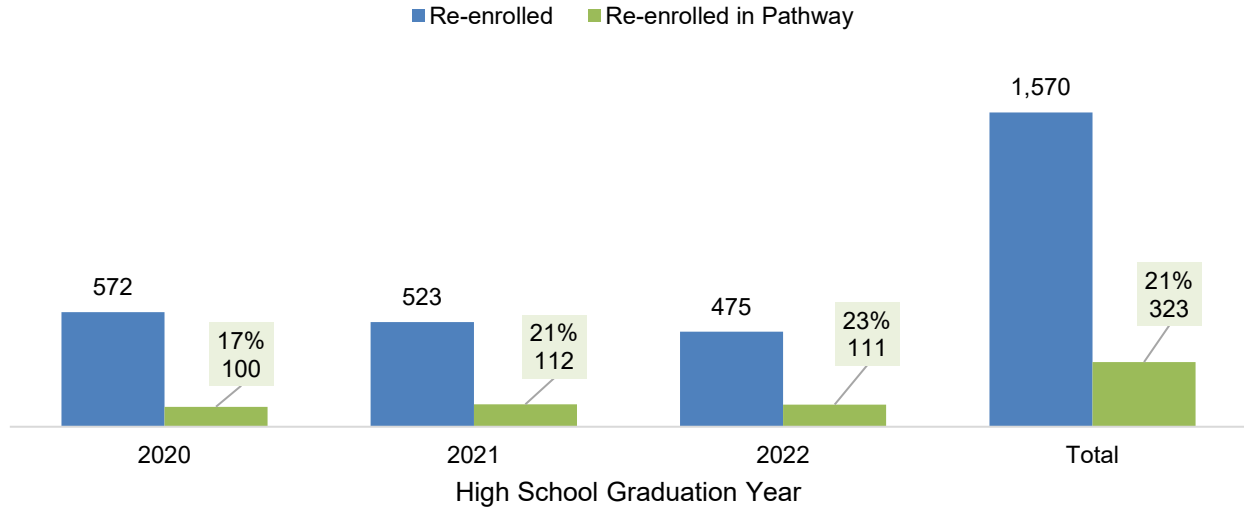
	Received Credit	Count Re-enrolled	% Re-Enrolled	Count Enrolled in Pathway	% of Re-enrolled who Enrolled in Pathway
Grand Total	5,071	1,570	31%	323	21%
Kearny	405	205	51%	21	10%
UCHS	526	202	38%	65	32%
Scripps Ranch	616	200	32%	60	30%
Mira Mesa	394	182	46%	41	23%
Henry	689	134	19%	36	27%
SDHS	195	85	44%	6	7%
Canyon Hills	211	79	37%	15	19%
Point Loma	271	67	25%	9	13%
Hoover	197	55	28%	2	4%
Twain	258	50	19%	2	4%
SDSCPA	192	50	26%	19	38%
Morse	315	49	16%	9	18%
Madison	90	46	51%	3	7%
La Jolla	204	43	21%	7	16%
Clairemont	122	41	34%	5	12%
Lincoln	173	35	20%	9	26%
Mission Bay	101	25	25%	3	12%
Garfield	90	16	18%	10	63%
East Village	11	4	36%	0	0%
Mt. Everest	8	2	25%	1	50%
Crawford	3	0	0%	0	

Note. This table includes students who earned CTE Articulation CBE from San Diego City, Mesa, or Miramar colleges for coursework at a public San Diego Unified School District (SDUSD) high school between 2016-17 and 2021-22, and graduated high school between 2020 and 2022.

4. Pathway Enrollment

323 students enrolled in pathways related to high school CTE Articulation CBE coursework, or 21% of those who enrolled as college students following high school graduation. Pathway enrollment rates have increased from 17% of 2020 re-enrollees² to 23% of 2022 re-enrollees.

Figure 4. Re-enrollees and Pathway Re-enrollees, H.S. Classes of 2020, 2021, 2022



Over half of students who earned credit-by-exam for EDUC203, RTVF 124, CHIL 160, NUTR 160, MFET 101, FIPT 101, and CISC 150 and enrolled as college students also enrolled in courses related to awards relevant to their credit-by-exam.

Table 6. High Rates of In Pathway Re-enrollees, by High School Graduation Year

	Total Re-enrolled	Count Re-enrolled in Pathway				% Re-enrolled in Pathway			
		2020	2021	2022	Total	2020	2021	2022	Total
EDUC 203	10	2	6	0	8	100%	75%	0%	80%
RTVF 124	14	0	2	9	11	0%	50%	90%	79%
CHIL 160	97	17	37	22	76	77%	82%	73%	78%
NUTR 160	16	0	1	9	10	0%	100%	60%	63%
MFET 101	8	0	0	5	5	0%	0%	63%	63%
FIPT 101	5	0	0	3	3	0%	0%	75%	60%
CISC 150	10	0	0	6	6	0%	0%	60%	60%

Pathway re-enrollment varies widely by agreement. While students earning credit for some courses enroll as college students in those pathways at high rates (such as those listed above), other agreements show much lower rates of pathway enrollment. Still other courses with CTE Articulation CBE agreements are not connected to any awards – the largest such agreement by volume is for ENGN 130 (these courses indicated with red background on next page). See Table 7 on the next page for pathway enrollment rates by agreement.

² 2020 Re-enrollees graduated high school in 2020, then enrolled at San Diego City, Mesa, or Miramar in 2020-21, 2021-22, or 2022-23

Table 7 below shows students who re-enrolled in courses related to their CTE Articulation CBE pathway. The table is sorted by “% of Re-enrolled in Pathway” – which shows the count of students who enrolled in a course in their CBE pathway divided by the number of students who re-enrolled. Courses that connect to no awards or degrees are indicated with a **red** background.

Table 7. Enrolled in Pathway, by Agreement, Sorted by Pathway Enrollment Rate

	Received Credit	Count Re-enrolled	% Re-Enrolled	Count Enrolled in Pathway	% of Re-enrolled in Pathway
Grand Total	5,071	1,570	31%	323	21%
EDUC 203	34	10	29%	8	80%
RTVF 124	35	14	40%	11	79%
CHIL 160	312	97	31%	76	78%
NUTR 160	40	16	40%	10	63%
MFET 101	22	8	36%	5	63%
FIPT 101	31	5	16%	3	60%
CISC 150	63	10	16%	6	60%
BIOL 131	343	105	31%	49	47%
MULT 100	63	28	44%	11	39%
CHIL 161	163	59	36%	23	39%
EDUC 200	124	34	27%	12	35%
ENGE 101	707	202	29%	60	30%
DRAM 123	38	17	45%	5	29%
PHOT 143	162	52	32%	13	25%
PHOT 243	49	17	35%	3	18%
ARTG 125	313	84	27%	13	15%
GISG 110	59	32	54%	3	9%
RTVF 146	235	98	42%	8	8%
MULT 120	96	49	51%	4	8%
MULT 101	96	38	40%	0	0%
MEDA 055	17	2	12%	0	0%
ENGN 130	1,060	265	25%	0	0%
CBTE 120	110	21	19%	0	0%
CBTE 101	129	26	20%	0	0%
CACM 101	278	90	32%	0	0%

Note 1. Includes students who earned CTE Articulation CBE from San Diego City, Mesa, or Miramar colleges for coursework at a public San Diego Unified School District (SDUSD) high school between 2016-17 and 2021-22, and graduated high school between 2020 and 2022.

Note 2. Excludes agreements inactive in 2021-22 (CBTE161; and MULT 121, 122, and 123). Excludes agreements for which fewer than 10 students earned credit (HOSP101: 8; BUSE 100: 4)

5. Award Earners

105 students earned Associate Degrees, Credit Certificates, or non-Credit Certificates after earning CTE Articulation Credit-by-Exam (CBE). Of these, 13 were in the CBE pathways; 12 of these awards were the 8-unit Biotechnology Certificate from Miramar College, which is part of a pathway for Biology 131.

Table 8. Students who Earned an Award, by Agreement

Table 8 includes all students who earned CTE Articulation CBE between 2016-17 and 2021-22 and graduated high school between 2020 and 2022. Graduates from the class of 2020 had two and a half years to complete, while graduates from 2022 had just half a year to complete.

All BIOL 131 award-earners were from UCHS (7 pathway award earners, 2 of whom completed the 8-unit certificate prior to high school graduation) or Mira Mesa (5 pathway award earners).

While most award-earners enrolled at San Diego City, Mesa, Miramar (included as “re-enrolled” in this report) or San Diego College of Continuing Education (not included as re-enrolled in this report, **12 students completed awards prior to high school graduation.** This includes 3 students who earned Associate Degrees (2 of which by East Village students), 3 students who completed Credit Certificates, and 6 students who completed non-Credit Certificates

54 of awards earned were Associate Degrees, 32 were Credit Certificates, and 19 were non-Credit Certificates.

Creation of more short-term certificates, and development of agreements connected to such certificates, would provide students with additional opportunities to earn awards either while in high school or in their first year of college.

	Received Credit	Earned Award	Earned Award in Pathway
Grand Total	5,071	105	13
BIOL 131	343	16	12
ENGN 130	1,060	12	0
MULT 121	131	9	0
ENGE 101	707	8	1
MULT 123	78	7	0
MULT 122	122	7	0
RTVF 146	235	6	0
CHIL 160	312	6	0
CACM 101	278	6	0
PHOT 143	162	4	0
GISG 110	59	4	0
EDUC 200	124	4	0
CHIL 161	163	4	0
MULT 101	96	3	0
ARTG 125	313	3	0
FIPT 101	31	2	0
CBTE 161	149	2	0
PHOT 243	49	1	0
MULT 120	96	1	0
RTVF 124	35	0	0
NUTR 160	40	0	0
MULT 100	63	0	0
MFET 101	22	0	0
MEDA 055	17	0	0
HOSP 101	8	0	0
EDUC 203	34	0	0
DRAM 123	38	0	0
CISC 150	63	0	0
CBTE 120	110	0	0
CBTE 101	129	0	0
BUSE 100	4	0	0

Includes students who earned CBE from City, Mesa, or Miramar for coursework at a public San Diego Unified School District (SDUSD) high school between 2016-17 and 2021-22, and graduated high school between 2020 and 2022.