



# CTE Annual Report: 2018-19 to 2020-21

## Part 1: Sections, Headcount, Outcomes

August 4, 2021

### Context

This briefing provides a high level overview of CTE programs in the District for the academic years of 2018-19 to 2019-20 (includes Summer, Fall, and Spring) in regards to sections, headcount, enrollments, and course success rates, with a comparison of outcomes in Spring semesters to isolate the effect of transitioning most instruction online due to the COVID-19 pandemic.

This report will be followed with a second report containing data on CTE student majors, completion of 9+ CTE units in an academic year, and completion of CTE awards and certificates.

### Findings

#### Sections

- Between 29% and 30% of sections offered Districtwide were CTE from 2018-19 to 2020-21 (in 2020-21, City/ECC: 22%, Mesa: 23%, Miramar: 34%, Continuing Education: 49%).
- CTE courses accounted for 92% of on-campus courses in 2020-21.

#### Headcount

- Half of all students across the district enrolled in a CTE course in 2020-21 (City/ECC: 39%, Mesa: 39%, Miramar: 46%, Continuing Education: 47%).
- Over the last three years, Latinx students made up the largest group of CTE students at City College/ECC (45%) and the College of Continuing Education (36%), and white students made up the largest group of CTE students at Mesa College (38%) and Miramar College (39%).

#### Success Rates

- Across the colleges, success rates in CTE courses across the credit colleges have remained between 79% and 80%. This is higher than success rates for non-CTE courses (72% to 73%).
- Across the credit colleges, success rates in CTE courses decreased 4% in Spring 2020 compared to the prior Spring. The impact of COVID-19 on course success rates varied significantly by institution (City/ECC: -7%, Mesa: +1%, Miramar: -6%).
- Success rates for male students at City College/ECC and Miramar College were particularly impacted by COVID-19 (-9% and -8% compared to Spring 2019).
- Across the colleges, success rates in CTE courses originally scheduled online increased 3% from 2018-19 to 2019-20, from 71% to 74%. In 2020-21, when instruction was primarily delivered online, online success rates increased an additional 4%, to 78% (City/ECC: 76%, Mesa: 78%, Miramar: 79%).
- Across the colleges, success rates in CTE courses increased for African American, Asian, Filipino, and White students since 2018-19 (+4%, +3%, +2%, and +1%, respectively), and decreased for Native American and Multi-ethnicity students (-7% and -1%). Gaps in success rates have grown for Latinx students, and remain large for African American students.

## Metrics and Definitions

- **CTE Enrollment:** An enrollment in a section with a Student Accountability Model (SAM) code of Apprenticeship (A), Advanced Occupational (B), or Clearly Occupational (C), or a Taxonomy of Program (TOP) code listed on the California Community Colleges Strong Workforce Program website<sup>1</sup> as “CTE.”
- **Enrollment:** An instance of a student taking a class. One student taking two classes counts twice.
- **Headcount:** Unduplicated count of students. One student taking two classes counts once.
- **Online:** In 2018-19 or 2019-20, a section scheduled fully online, partially online, or as a hybrid. In 2020-21, a section scheduled either as asynchronous or synchronous Online.
- **Success Rate:** The count of successful enrollments out of total valid enrollments as of end-of-term. In Spring 2020 going forward, includes Excused Withdrawals (EWs) as an unsuccessful enrollment (EWs have typically been excluded from Success Rate calculations, but are included Spring 2020 going forward to reflect the impact of COVID-19).

## Exclusions

Unless otherwise noted, data reflected in this briefing reflects valid enrollments as of end-of-term.

- Tentative, cancelled, and tutoring sections excluded.
- Credit by exam excluded.
- For the credit colleges, non-state supported, apprenticeship, and non-credit sections excluded.
- For the College of Continuing Education, apprenticeship, fee, and contract sections excluded.
- Enrollments in duplicate COVID-19 sections for Spring 2020 at the College of Continuing Education excluded. As part of Continuing Education’s transition to online instruction, new section identifiers were created for all sections which transitioned online. As of the production of this report, investigations are currently under way to identify which enrollments in these sections were maintained from before the transition (and should be excluded), and which enrollments were new (and should be included).

## Additional Notes

- Headcount disaggregations for non-binary students became available in 2019-20 as the district transitioned to Campus Solutions; this data was not available in 2018-19.

<sup>1</sup> [https://www.calpassplus.org/Launchboard/SWP-MDD?metric=SW\\_122#\\_Toc46492562](https://www.calpassplus.org/Launchboard/SWP-MDD?metric=SW_122#_Toc46492562)

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### CTE Sections

**1. Sections: There were 3,127 CTE sections offered in 2020-21 across the district, or 30% of all sections that year.**

Across the credit colleges, there were 2,236 CTE sections scheduled in 2020-21, or 26% of all sections at the credit colleges. CTE section counts have decreased 22% compared to 2018-19 (non-CTE section counts decreased 24%).

There were 891 CTE sections at the College of Continuing Education in 2020-21, or 49% of sections there. College of Continuing Education CTE sections counts have decreased 48% from 2018-19 (non-CTE sections counts decreased 59%).

At the credit colleges, decreases in CTE sections at City College were more significant (-30%) than at than at Mesa College (-15%) and Miramar College (-24%).

Over the last three years, CTE courses have accounted for 22%-24% of all sections at City College/ECC, 21%-23% at Mesa College, and 33%-34% at Miramar College.

See Table 1 on the next page for more detail.

Figure 1. CTE Sections, 2018-19 to 2020-21

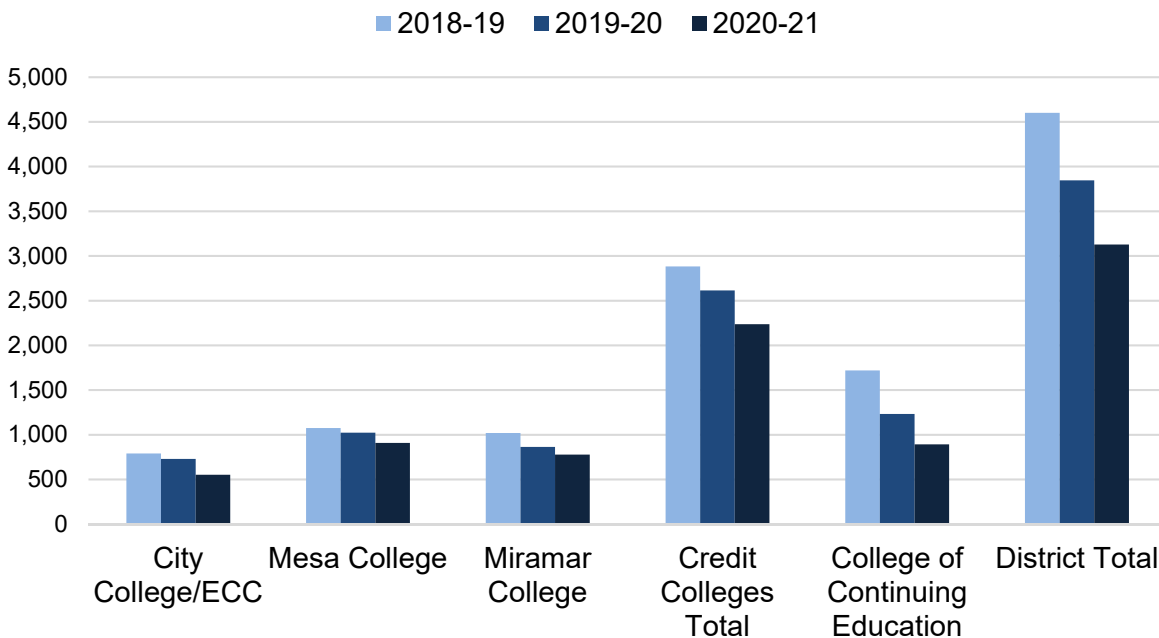


Table 1. Sections by Academic Year and CTE status, 2018-19 to 2019-20

		2018-19		2019-20		2020-21		18-19 to 20-21 Diff.	18-19 to 20-21 % Change
		Count	%	Count	%	Count	%		
City College/ECC	CTE	790	24%	728	24%	551	22%	-239	-30%
	Non-CTE	2,493	76%	2,349	76%	1,918	78%	-575	-23%
	<b>Total</b>	<b>3,283</b>	<b>100%</b>	<b>3,077</b>	<b>100%</b>	<b>2,469</b>	<b>100%</b>	<b>-814</b>	<b>-25%</b>
Mesa College	CTE	1,074	21%	1,022	21%	908	23%	-166	-15%
	Non-CTE	4,069	79%	3,856	79%	3,075	77%	-994	-24%
	<b>Total</b>	<b>5,143</b>	<b>100%</b>	<b>4,878</b>	<b>100%</b>	<b>3,983</b>	<b>100%</b>	<b>-1,160</b>	<b>-23%</b>
Miramar College	CTE	1,018	34%	863	33%	777	34%	-241	-24%
	Non-CTE	1,981	66%	1,766	67%	1,506	66%	-475	-24%
	<b>Total</b>	<b>2,999</b>	<b>100%</b>	<b>2,629</b>	<b>100%</b>	<b>2,283</b>	<b>100%</b>	<b>-716</b>	<b>-28%</b>
Credit Colleges Total	CTE	2,882	25%	2,613	25%	2,236	26%	-646	-22%
	Non-CTE	8,543	75%	7,971	75%	6,499	74%	-2,044	-24%
	<b>Total</b>	<b>11,425</b>	<b>100%</b>	<b>10,584</b>	<b>100%</b>	<b>8,735</b>	<b>100%</b>	<b>-2,690</b>	<b>-24%</b>
Continuing Education	CTE	1,719	43%	1,232	43%	891	49%	-828	-48%
	Non-CTE	2,251	57%	1,606	57%	913	51%	-1,338	-59%
	<b>Total</b>	<b>3,970</b>	<b>100%</b>	<b>2,838</b>	<b>100%</b>	<b>1,804</b>	<b>100%</b>	<b>-2,166</b>	<b>-55%</b>
District Total	CTE	4,601	30%	3,845	29%	3,127	30%	-1,474	-32%
	Non-CTE	10,794	70%	9,577	71%	7,412	70%	-3,382	-31%
	<b>Total</b>	<b>15,395</b>	<b>100%</b>	<b>13,422</b>	<b>100%</b>	<b>10,539</b>	<b>100%</b>	<b>-4,856</b>	<b>-32%</b>

Note. Excludes tentative and cancelled sections. Excludes sections with no enrollments. Excludes non-state supported and non-credit sections from the credit colleges. Excludes apprenticeship sections from City College. Excludes fee and apprenticeship sections from the College of Continuing Education.

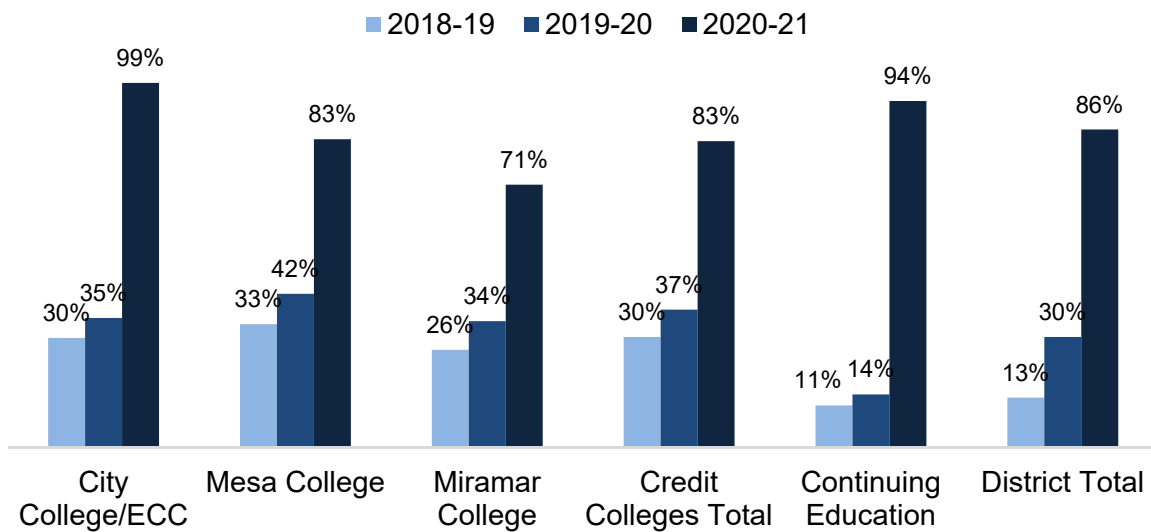
**2. Sections by Modality: CTE sections had been increasingly scheduled online as of the beginning of the Spring 2020 term. As part of the district’s response to COVID-19, instruction was moved primarily online for the 2020-21 academic year.**

As of the beginning of the Spring 2020 semester, online sections accounted for 37% of all CTE sections at the credit colleges in 2019-20, compared to 30% the prior year. At the College of Continuing Education, online CTE sections accounted for 14% of 2019-20 sections, compared to 11% the prior year.

In 2020-21, 86% of CTE sections across the district were scheduled online (City/ECC: 99%, Mesa: 83%, Miramar: 71%, CE: 94%).

See Table 2 on the next page for more detail.

Figure 2. Online CTE Sections, % of All CTE Sections, 2018-19 to 2020-21



There were 2,752 sections **originally scheduled online** across the district in 2019-20 (CTE and non-CTE). 42% of all online sections in 2019-20 were in CTE courses (City/ECC: 38%, Mesa: 39%, Miramar: 41%, Continuing Education: 63%). This was comparable to 2018-19, when 43% of all online sections were in CTE courses (City/ECC: 41%, Mesa: 37%, Miramar: 40%, Continuing Education: 70%).

Table 2. CTE Sections by Modality, 2018-19 to 2020-21

		2018-19		2019-20		2020-21	
		Count	%	Count	%	Count	%
City College/ECC	Online	234	30%	255	35%	544	99%
	On-campus	556	70%	473	65%	7	1%
	<b>Total</b>	<b>790</b>	<b>100%</b>	<b>728</b>	<b>100%</b>	<b>551</b>	<b>100%</b>
Mesa College	Online	358	33%	425	42%	758	83%
	On-campus	716	67%	597	58%	150	17%
	<b>Total</b>	<b>1,074</b>	<b>100%</b>	<b>1,022</b>	<b>100%</b>	<b>908</b>	<b>100%</b>
Miramar College	Online	269	26%	295	34%	553	71%
	On-campus	749	74%	568	66%	224	29%
	<b>Total</b>	<b>1,018</b>	<b>100%</b>	<b>729</b>	<b>100%</b>	<b>777</b>	<b>100%</b>
Credit Colleges Total	Online	861	30%	975	37%	1,855	83%
	On-campus	2,021	70%	1,638	63%	381	17%
	<b>Total</b>	<b>2,882</b>	<b>100%</b>	<b>2,613</b>	<b>100%</b>	<b>2,236</b>	<b>100%</b>
College of Continuing Education	Online	195	11%	178	14%	835	94%
	On-campus	1,524	89%	1,054	86%	56	6%
	<b>Total</b>	<b>4,974</b>	<b>100%</b>	<b>1,232</b>	<b>100%</b>	<b>891</b>	<b>100%</b>
District Total	Online	1,056	13%	1,153	30%	2,690	86%
	On-campus	3,545	45%	2,692	70%	437	14%
	<b>Total</b>	<b>7,856</b>	<b>100%</b>	<b>3,845</b>	<b>100%</b>	<b>3,127</b>	<b>100%</b>

Note. Excludes tentative and cancelled sections. Excludes sections with no enrollments. Excludes non-state supported and non-credit sections from the credit colleges. Excludes apprenticeship sections from City College. Excludes fee and apprenticeship sections from the College of Continuing Education.



**3. On-campus CTE courses in 2020-21: Nearly all on-campus instruction in the 2020-21 academic year was accounted for by CTE courses (437 of the 477 on-campus sections across the District in 2020-21 were CTE, or 92%).**

While the majority of CTE courses in 2020-21 were offered online in response to the COVID-19 pandemic (86% across the district), a number of courses were offered on-campus:

- **City College On-campus CTE courses** included CHIL270 (3 sections)
- **Mesa College On-campus CTE courses** included WORK270 (16 sections), FASH270 (8 sections), and CHIL270 (7 sections).
- **Miramar College On-campus CTE courses** were largely in ADJU (79 sections), AVIM (60 sections), FIPT (43 sections), and MLTT (35 sections).
- **College of Continuing Education On-campus CTE courses** were largely in MECT431 (22 sections), HLTH605 and HLTH606 (12 sections), and INDT (20 sections).

*Table 3. On-campus sections, 2020-21*

		Sections	% of Total On-campus Sections
CTE	City College/ECC	7	1%
	Mesa College	150	31%
	Miramar College	224	47%
	<b>Credit Colleges Total</b>	<b>381</b>	<b>80%</b>
	College of Continuing Education	56	12%
	<b>Districtwide Total</b>	<b>437</b>	<b>92%</b>
Non-CTE	City College/ECC	27	6%
	Mesa College	12	3%
	Miramar College	1	0%
	<b>Credit Colleges Total</b>	<b>40</b>	<b>8%</b>
	College of Continuing Education	0	0%
	<b>Districtwide Total</b>	<b>40</b>	<b>8%</b>
<b>Total On-campus, Districtwide</b>		<b>477</b>	<b>100%</b>

*Note 1. Excludes tutoring, canceled, and tentative sections.*

*Note 2. Excludes non-state supported, apprenticeship, and non-credit sections from the credit colleges.*

**4. Top CTE Courses: Business courses account for 3 of the top 15 CTE courses at each college by section count across the last three years (BUSE 140, BUSE 119, BUSE 100).**

Other CTE courses most commonly offered at the credit colleges include CHIL 101, NUTR 150, ACCT 116A, ACCT 116B, and MARK 100.

It appears that COVID-19 impacted City College's ability to offer WORK 270: that college offered 15 and 10 sections of WORK 270 in 2018-19 and 2019-20, and just 1 section in 2020-21. Cosmetology labs at City College (COSM 90L and COSM 80L) were also similarly impacted (2019-20: 7 sections of each course, 2020-21: 3 sections of each course).

Mesa College reduced BUSE 140 and CISC 181 sections in 2020-21 (-6 and -7 sections, respectively), compared to the prior year.

Compared to 2019-20, Miramar College reduced sections in 2020-21 in ADJU 361S (-13), ADJU 300A (-12), and EMGM 105A (-7). On the other hand, there were 16 more sections in ADJU 361R (Regional Officer Training) in 2020-21 compared to 2019-20.

For more detail, see Tables 22 and 23 in the Appendix.

*Table 4. Top 5 CTE Courses by Section Count, 2018-19 to 2020-21*

		2018-19	2019-20	2020-21	3-Year Total
City College/ECC	CHIL 101	21	20	20	61
	NUTR 150	12	18	19	49
	CISC 181	16	13	13	42
	ACCT 116A	14	12	11	37
	RTVF 160	11	11	11	33
Mesa College	BUSE 140	35	33	27	95
	CISC 181	33	33	26	92
	NUTR 150	30	31	28	89
	ACCT 116A	34	29	26	89
	BUSE 119	29	23	22	74
Miramar College	ADJU 361R	30	21	37	88
	BUSE 100	21	19	19	59
	EMGM 105A	23	21	14	58
	ADJU 101	20	16	16	52
	EMGM 106	23	12	14	49
College of Continuing Education	PASV 530	59	57	53	169
	OFSY 575	54	35	29	118
	OFSY 596	58	41	18	117
	OFSY 541	54	40	15	109
	OFSY 577	53	33	13	99

**5. In-service/Public Safety: There were 29% fewer sections of In-service/Public Safety courses in Administration of Justice and Fire Protection in 2020-21 compared to 2018-19. There were 32% fewer enrollments.**

The majority of these sections were scheduled on-campus, and COVID-19 impacted Miramar College's ability to offer these courses. This decrease contributed to decreasing CTE enrollments at Miramar College (-24% in 2020-21 compared to 2018-19, or 6,725 fewer CTE enrollments).

*Table 5. Declining In-service/Public Safety ADJU and FIPT Sections and Enrollments*

		2018-19	2019-20	2020-21	18-19 to 20-21 Diff.	% Change 18-19 to 20-21
ADJU	Enrollments	4,891	3,609	3,228	-1,663	-34%
	Sections	124	88	79	-45	-36%
FIPT	Enrollments	1,500	1,129	1,298	-202	-13%
	Sections	65	46	50	-15	-23%
<b>Total</b>	<b>Enrollments</b>	<b>6,391</b>	<b>4,738</b>	<b>4,526</b>	<b>-1,865</b>	<b>-29%</b>
	<b>Sections</b>	<b>189</b>	<b>134</b>	<b>129</b>	<b>-60</b>	<b>-32%</b>

*Note. There is also a decrease in In-service/Public Safety EMGM courses over this period; a possible inconsistency in a course attribute for one EMGM section in 2019-20 is being investigated as of the production of this report.*

### Headcount and Demographics

**6. Headcount: There were 35,713 students enrolled in at least one CTE course across the District in 2020-21, half of all students.**

This is 22% fewer CTE students than in 2018-19 (non-CTE student headcount decreased by 37% over this same period).

Across the credit colleges, CTE student headcount has decreased by 13% since 2018-19, while non-CTE student headcount decreased by 18%. 51% of students enrolled across the credit colleges took at least one CTE course in 2020-21, up slightly from 49% in 2018-19.

At City College, student headcount has remained stable over the last three years (CTE: +0%, non-CTE: +1%). CTE students have made up between 39% and 41% of City College students since 2018-19.

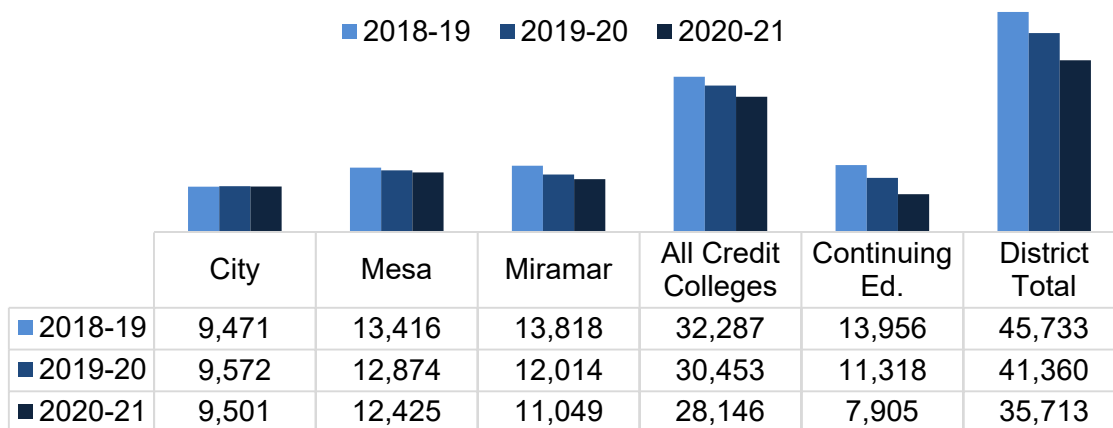
At Mesa College, CTE headcount decreased 7% over the last three years (-11% for non-CTE students). CTE students accounted for 38%-39% of Mesa College students over this time.

The count of CTE students at Miramar College decreased 20% over the last three years, from 13,818 to 11,049. This decrease was driven by a decrease in In-service and Public Safety courses in 2020-21 (see Highlight 8). CTE students made up half of Miramar College students in 2018-19 and 2019-20, and 46% in 2020-21.

Overall headcount at the College of Continuing Education decreased 46% in 2020-21 compared to the prior year, from 30,701 in 2019-20 to 16,656<sup>2</sup>. CTE student headcount decreased less (-30%) than the non-CTE student headcount (-55%). The proportion of students taking a CTE course at the College of Continuing Education was higher in 2020-21 (47%) than in 2019-20 (37%).

See Table 19 in the appendix for more detail.

Figure 3. CTE Student Headcount



<sup>2</sup> Excludes any College of Continuing Education students who exclusively enrolled a) in Spring 2020, b) after the transition to online instruction, c) in sections that were transitioned online. All other students are included.

Table 6. Headcount by Academic Year

		2018-19		2019-20		2020-21		18-19 to 20-21 Diff.	18-19 to 20-21 % Change
		Count	%	Count	%	Count	%		
City College/ ECC	CTE	9,471	39%	9,572	41%	9,501	39%	30	0%
	Non-CTE	14,806	61%	13,706	59%	14,994	61%	188	1%
	<b>Total</b>	<b>24,277</b>	<b>100%</b>	<b>23,278</b>	<b>100%</b>	<b>24,495</b>	<b>100%</b>	<b>218</b>	<b>1%</b>
Mesa College	CTE	13,416	38%	12,874	39%	12,425	39%	-991	-7%
	Non-CTE	21,858	62%	20,404	61%	19,468	61%	-2,390	-11%
	<b>Total</b>	<b>35,274</b>	<b>100%</b>	<b>33,278</b>	<b>100%</b>	<b>31,893</b>	<b>100%</b>	<b>-3,381</b>	<b>-10%</b>
Miramar College	CTE	13,818	51%	12,014	50%	11,049	46%	-2,769	-20%
	Non-CTE	13,260	49%	11,856	50%	13,153	54%	-107	-1%
	<b>Total</b>	<b>27,078</b>	<b>100%</b>	<b>23,870</b>	<b>100%</b>	<b>24,202</b>	<b>100%</b>	<b>-2,876</b>	<b>-11%</b>
Credit Colleges Total	CTE	32,287	49%	30,453	49%	28,146	51%	-4,141	-13%
	Non-CTE	33,289	51%	31,130	51%	27,254	49%	-6,035	-18%
	<b>Total</b>	<b>65,576</b>	<b>100%</b>	<b>61,583</b>	<b>100%</b>	<b>55,400</b>	<b>100%</b>	<b>-10,176</b>	<b>-16%</b>
College of Continuing Education	CTE	13,956	37%	11,318	37%	7,905	47%	-6,051	-43%
	Non-CTE	23,860	63%	19,383	63%	8,751	53%	-15,109	-63%
	<b>Total</b>	<b>37,816</b>	<b>100%</b>	<b>30,701</b>	<b>100%</b>	<b>16,656</b>	<b>100%</b>	<b>-21,160</b>	<b>-56%</b>
District Total	CTE	45,733	45%	41,360	45%	35,713	50%	-10,020	-22%
	Non-CTE	56,333	55%	49,828	55%	35,565	50%	-20,768	-37%
	<b>Total</b>	<b>102,066</b>	<b>100%</b>	<b>91,188</b>	<b>100%</b>	<b>71,278</b>	<b>100%</b>	<b>-30,788</b>	<b>-30%</b>

**7. Districtwide Representation by Ethnicity: Over the last three years, the CTE student population across the district has had a slightly higher representation of White students than the non-CTE student population, and a slightly lower representation of Asian and Latinx students.**

Compared to 2018-19, the proportion of Latinx CTE students has increased 2% across the district, and the proportion of White CTE students has decreased 2%.

CTE and non-CTE student representation have been within 1% over the last three years, with the following exceptions:

- CTE students were less likely to be Asian in 2018-19 and 2019-20 (+2%-3%).
- CTE students were less likely to be Latinx in 2018-19 (+2%).
- CTE students were more likely to be White over the last three years (+5% - +2%).

*Table 7. CTE Student Representation, by Ethnicity, Districtwide*

	2018-19	2019-20	2020-21	18-19 to 20-21 Diff.
African American	7%	7%	6%	-1%
Asian	11%	10%	10%	0%
Filipino	4%	5%	5%	0%
Latinx	35%	37%	37%	2%
Multi-Ethnicity	5%	6%	6%	1%
Native American	0%	0%	0%	0%
Pacific Islander	1%	1%	0%	0%
Unknown	3%	3%	3%	0%
White	34%	31%	31%	-2%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>---</b>

*Note. Values of 0% indicate less than 1%.*

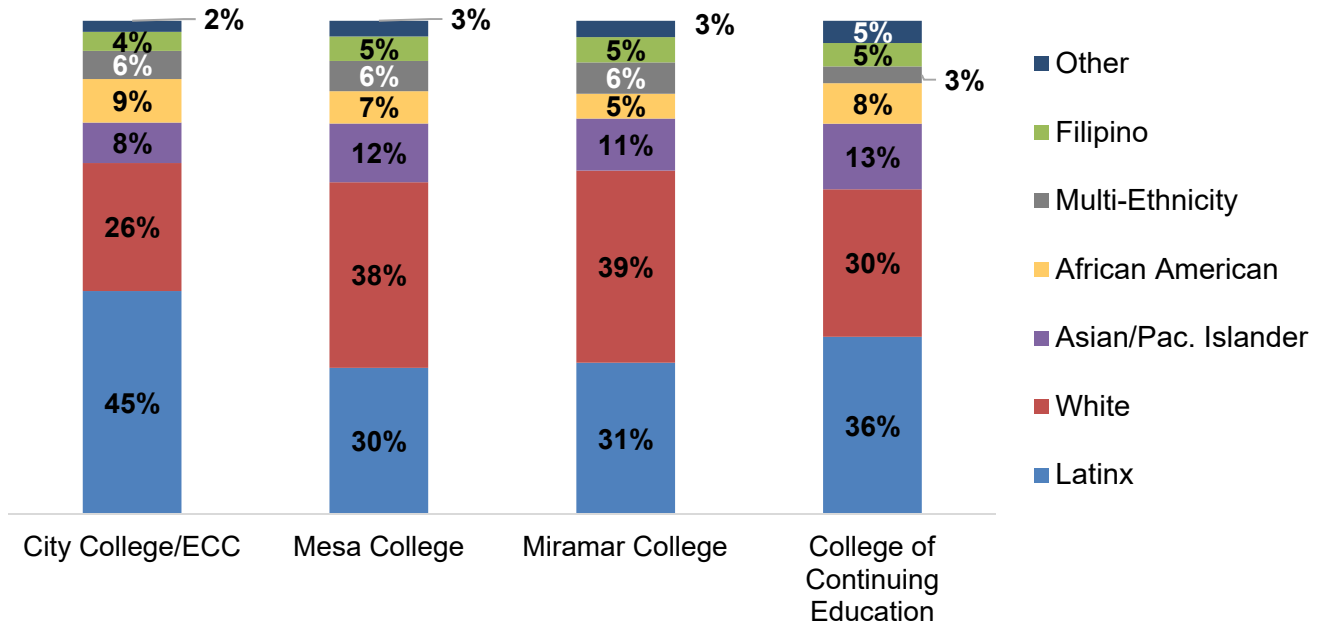
*Table 8. Non-CTE Student Representation, by Ethnicity, Districtwide*

	2018-19	2019-20	2020-21	18-19 to 20-21 Diff.
African American	7%	7%	7%	0%
Asian	13%	13%	11%	-1%
Filipino	4%	4%	4%	1%
Latinx	37%	38%	38%	1%
Multi-Ethnicity	4%	5%	6%	2%
Native American	0%	0%	0%	0%
Pacific Islander	0%	0%	0%	0%
Unknown	5%	3%	4%	-1%
White	29%	30%	29%	0%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>---</b>

*Note. Values of 0% indicate less than 1%.*

8. **College Representation by Ethnicity:** Over the last three years, Latinx students made up the largest group of CTE students at City College/ECC (45%) and the College of Continuing Education (36%), and white students made up the largest group of CTE students at Mesa College (38%) and Miramar College (39%).

Figure 4. CTE Student Representation, by Ethnicity, 2018-19 to 2020-21



Note. "Other" includes Native American and Unreported.

Compared to 2018-19, Latinx student representation among CTE students increased at Mesa College (2%), Miramar College (+3%), and the College of Continuing Education (+2%); Latinx student representation decreased 3% at City College/ECC. White student representation decreased 3% at Mesa and Miramar Colleges, and decreased 4% at the College of Continuing Education. Other significant changes in representation since 2018-19 are included in Table 9 below.

Table 9. Change in representation, CTE Students, Ethnicity, 2018-19 to 2020-21

Institution	Ethnicity	2018-19	2020-21	Change
City	Latinx	46%	43%	-3%
	Asian/Pac. Islander	11%	13%	+2%
Mesa	Latinx	29%	31%	+2%
	White	39%	36%	-3%
Miramar	Latinx	30%	33%	+3%
	White	40%	38%	-3%
Continuing Ed.	African American	9%	7%	-2%
	Latinx	34.3%	36.6%	+2.3%
	White	32%	28%	-4%

Note. Representation shown to the tenth decimal place to avoid apparent rounding errors.

9. **District Representation by Gender: Representation by gender among CTE students has been relatively stable across the district over the last three years. During that time, female students accounted for a lower proportion of CTE students (53% to 54%) than of non-CTE students (59% to 61%).**

*Table 10. CTE Student Population, by Gender, Districtwide*

	2018-19	2019-20	2020-21	18-19 to 20-21 Diff.
Female	54%	53%	54%	0.0%
Male	46%	47%	46%	-0.4%
Non-Binary	n/a	0%	0%	n/a
Unreported	0%	0%	0%	0.3%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>---</b>

*Note. Values of 0% indicate less than 1%.*

*Table 11. Non-CTE Student Population, by Gender, Districtwide*

	2018-19	2019-20	2020-21	18-19 to 20-21 Diff.
Female	59%	59%	61%	2.4%
Male	41%	40%	38%	-2.8%
Non-Binary	n/a	0%	0%	n/a
Unreported	0%	1%	0%	0.2%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>---</b>

*Note. Values of 0% indicate less than 1%.*



**10. Representation by Gender, at each College: Over the last three years, CTE female student representation at the college level has grown by 1%-3% at each of the credit colleges (City/ECC: +1%, Mesa: +2%, Miramar: +2%), and decreased by 3% at the College of Continuing Education.**

*Table 12. CTE Student Population Representation by Gender, by College*

		2018-19	2019-20	2020-21	18-19 to 20-21 Diff.
City College/ECC	Female	54%	54%	55%	+1%
	Male	46%	46%	44%	-1%
	Non-Binary	n/a	0%	0%	n/a
	Unreported	0%	0%	0%	0%
	<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>---</b>
Mesa College	Female	57%	56%	59%	+2%
	Male	43%	43%	40%	-3%
	Non-Binary	n/a	0%	0%	n/a
	Unreported	0%	0%	0%	0%
	<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>---</b>
Miramar College	Female	40%	42%	42%	+2%
	Male	60%	57%	57%	-3%
	Non-Binary	n/a	0%	0%	n/a
	Unreported	0%	0%	1%	+1%
	<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>---</b>
College of Continuing Education	Female	64.4%	62%	61.7%	-2.7%
	Male	35%	38%	38%	+3%
	Non-Binary	n/a	0%	0%	n/a
	Unreported	0%	1%	0%	0%
	<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>---</b>

Note 1. Representation shown to the tenth decimal place to avoid apparent rounding errors.

Note 2. Values of 0% indicate less than 1%.

## Course Outcomes: Success Rates

11. **Overall Success Rates: Across the colleges, success rates in CTE courses across the credit colleges have remained between 79% and 80%. This is higher than success rates for non-CTE courses (72% to 73%). Compared to 2019-20, when COVID-19 impacted the Spring 2020 term, CTE success rates in 2020-21 have increased (City: +3%, Mesa: +2%, Miramar: +1%).**

Table 13. CTE Success Rates

	2018-19	2019-20	2020-21	18-19 to 20-21 Diff.	19-20 to 20-21 Diff.
City College/ECC	76%	73%	76%	0%	3%
Mesa College	76%	77%	79%	3%	2%
Miramar College	85%	83%	84%	-1%	1%
<b>All Credit Colleges</b>	<b>79%</b>	<b>78%</b>	<b>80%</b>	<b>1%</b>	<b>2%</b>

Table 14. Non-CTE Success Rates

	2018-19	2019-20	2020-21	18-19 to 20-21 Diff.	19-20 to 20-21 Diff.
City College/ECC	69%	66%	69%	0%	3%
Mesa College	72%	73%	74%	2%	1%
Miramar College	75%	76%	75%	0%	-1%
<b>All Credit Colleges</b>	<b>72%</b>	<b>72%</b>	<b>73%</b>	<b>1%</b>	<b>1%</b>

12. **Success Rates, COVID-19: Across the credit colleges, success rates in CTE courses decreased 4% in Spring 2020 compared to the prior Spring. However, the impact of COVID-19 on course success rates varied significantly by institution (City/ECC: -7%, Mesa: +1%, Miramar: -6%).**

Table 15. CTE Success Rates, Spring Terms

	2019	2020	2021	Spr. 19 to Spr. 20 Diff.
City College/ECC	77%	70%	76%	-7%
Mesa College	76%	77%	78%	1%
Miramar College	85%	79%	83%	-6%
<b>All Credit Colleges</b>	<b>80%</b>	<b>76%</b>	<b>79%</b>	<b>-4%</b>

Table 16. Non-CTE Success Rates, Spring Terms

	2019	2020	2021	Spr. 19 to Spr. 20 Diff.
City College/ECC	69%	65%	68%	-4%
Mesa College	71%	70%	73%	-1%
Miramar College	75%	75%	75%	0%
<b>All Credit Colleges</b>	<b>72%</b>	<b>70%</b>	<b>72%</b>	<b>-2%</b>

Note. Excludes Intersession.

**13. Success Rates, COVID-19, Gender: Success rates for male students at City College/ECC and Miramar College were particularly impacted by COVID-19 (-9% and -8% compared to Spring 2019).**

CTE success rates for **male Latinx** students decreased at each of the colleges in Spring 2020 compared to Spring 2019 (City/ECC: -11%, Mesa: -3%, Miramar: -8%). **Male Pacific Islander** students had large decreases at City College/ECC (-27%) and Miramar College (-29%).

Success rates for **female Multi-Ethnicity** students decreased at each of the colleges in Spring 2020 compared to Spring 2019 (City/ECC: -10%, Mesa: -7%, Miramar: -4%). **Female Filipino** students had large decreases at City College (-12%) and Mesa College (-8%).

There was variation by college in which groups were impacted most heavily. See Tables 27 and 28 in the appendix for success rates by gender and ethnicity, by college.

*Table 17. CTE Success Rates, Male Students, Spring Terms*

	2019	2020	2021	Spr. 19 to Spr. 20 Diff.
City College/ECC	75%	66%	75%	-9%
Mesa College	73%	72%	75%	-1%
Miramar College	87%	79%	85%	-8%
<b>All Credit Colleges</b>	<b>80%</b>	<b>73%</b>	<b>79%</b>	<b>-7%</b>

*Table 18. CTE Success Rates, Female Students, Spring Terms.*

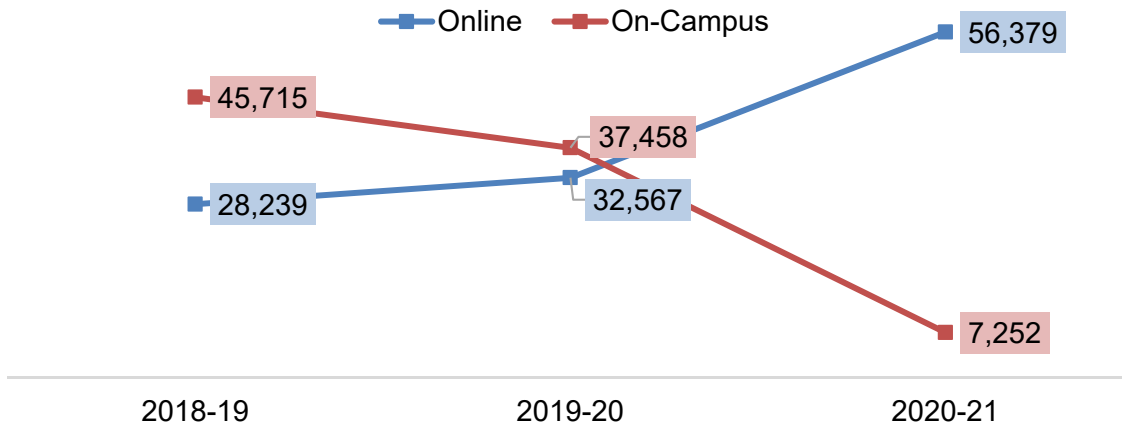
	2019	2020	2021	Spr. 19 to Spr. 20 Diff.
City College/ECC	79%	73%	77%	-6%
Mesa College	78%	80%	81%	2%
Miramar College	82%	79%	80%	-3%
<b>All Credit Colleges</b>	<b>79%</b>	<b>78%</b>	<b>79%</b>	<b>-1%</b>

*Note. Excludes Intersession.*

**14. Credit Colleges Enrollments by Modality: From 2018-19 to 2019-20, CTE enrollments across the credit colleges in courses originally scheduled online increased 15% (City/ECC: +14%, Mesa: +20%, Miramar: +10). In 2020-21, when instruction was primarily delivered online in response to the COVID-19 pandemic, 89% of CTE enrollments were online (City/ECC: 98%, Mesa: 95%, Miramar: 74%).**

See Table 25 in the appendix for enrollments by modality by institution.

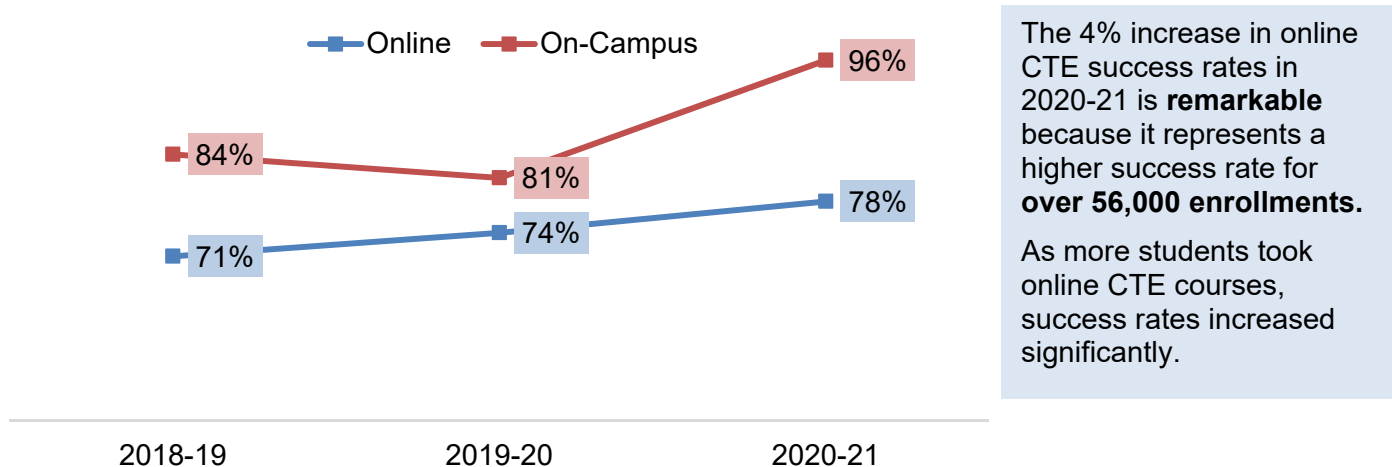
Figure 5. CTE Enrollments at the Credit Colleges, by Mode



**15. Success Rates by Modality: Across the colleges, success rates in CTE courses originally scheduled online increased 3% from 2018-19 to 2019-20, from 71% to 74%. In 2020-21, when instruction was primarily delivered online, online success rates increased an additional 4%, to 78% (City/ECC: 76%, Mesa: 78%, Miramar: 79%).**

96% of the 7,252 on-campus enrollments were successful in 2020-21 (these accounted for 11% of all enrollments in 2020-21). See Table 19 (next page) for course success rates by modality by college.

Figure 6. CTE Success Rates at the Credit Colleges, by Modality



The 4% increase in online CTE success rates in 2020-21 is **remarkable** because it represents a higher success rate for **over 56,000 enrollments**. As more students took online CTE courses, success rates increased significantly.

Table 19. CTE Success Rates, by Modality, by Institution

		2018-19	2019-20	2020-21	18-19 to 20-21 Diff.	19-20 to 20- 21 Diff.
City College/ECC	Online	69%	70%	76%	7%	6%
	On-campus	81%	75%	85%	4%	10%
Mesa College	Online	70%	76%	78%	8%	2%
	On-campus	80%	78%	96%	16%	18%
Miramar College	Online	74%	76%	79%	5%	3%
	On-campus	90%	87%	97%	7%	10%
<b>All Credit Colleges</b>	<b>Online</b>	<b>71%</b>	<b>74%</b>	<b>78%</b>	<b>7%</b>	<b>4%</b>
	<b>On-campus</b>	<b>84%</b>	<b>81%</b>	<b>96%</b>	<b>12%</b>	<b>15%</b>

**16. Success Rates by Ethnicity: Across the colleges, success rates in CTE courses increased for African American, Asian, Filipino, and White students since 2018-19 (+4%, +3%, +2%, and +1%, respectively), and decreased for Native American and Multi-ethnicity students (-7% and -1%).**

Success rates in CTE courses in 2020-21 were highest for Asian students (88%) and lowest for African American students (71%).

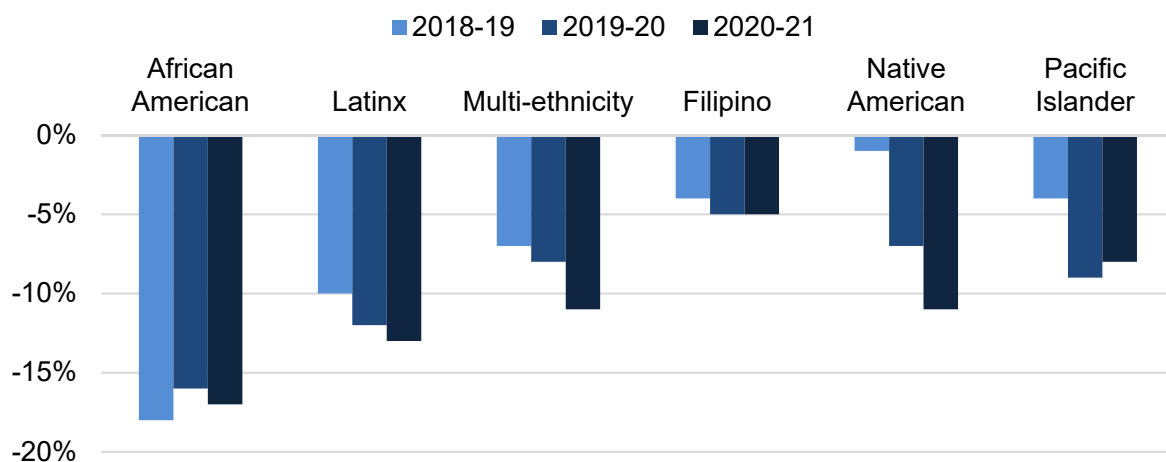
See Table 26 in the appendix for success rates by ethnicity by college.

*Table 20. CTE Success Rates, by Ethnicity*

	2018-19	2019-20	2020-21	18-19 to 20-21 Diff.
African American	67%	69%	71%	4%
Asian	85%	85%	88%	3%
Filipino	81%	80%	83%	2%
Latinx	75%	73%	75%	0%
Multi-Ethnicity	78%	77%	77%	-1%
Native American	84%	78%	77%	-7%
Pacific Islander	81%	76%	80%	-1%
Unknown	84%	78%	79%	-5%
White	84%	83%	85%	1%
<b>Overall</b>	<b>79%</b>	<b>78%</b>	<b>80%</b>	<b>1%</b>

**Gaps in success rates for CTE courses remain.** Compared to the group with the highest success rates (Asian students), gaps have grown larger for Latinx, Multi-ethnicity, and Native American students, even as overall success rates have increased. **The gap between success rates for African American students and for Asian students remains the largest,** both across the credit colleges and at each college. See Table 29 in the appendix for gaps between group with highest success rates and other ethnicities by college.

*Figure 7. CTE Success Rate Gaps between highest group (Asian), All Credit Colleges*



**17. Success rates by Gender: Across the colleges, male and female success rates were comparable over the last three years. Female students have had higher success rates at City College and Mesa College, and male students have had higher success rates at Miramar College.**

As noted in Section 13, success rates for male students at City College/ECC and Miramar College decreased significantly in Spring 2020; these decreases in contribute to the decreases shown in Table 18 below for the academic year for those groups.

*Table 21. CTE Success Rates, by Gender and College*

		2018-19	2019-20	2020-21	18-19 to 20-21 Diff.	19-20 to 20-21 Difference
City College/ECC	Female	78%	76%	77%	-1%	1%
	Male	74%	69%	75%	1%	6%
	Non-Binary	n/a	60%	70%	n/a	10%
	Unreported	n/a	64%	80%	n/a	16%
	<b>Overall</b>	<b>76%</b>	<b>73%</b>	<b>76%</b>	<b>0%</b>	<b>3%</b>
Mesa College	Female	78%	80%	81%	3%	1%
	Male	72%	73%	75%	3%	2%
	Non-Binary	n/a	100%	85%	n/a	-15%
	Unreported	100%	62%	68%	-32%	6%
	<b>Overall</b>	<b>73%</b>	<b>77%</b>	<b>79%</b>	<b>6%</b>	<b>2%</b>
Miramar College	Female	82%	81%	80%	-2%	-1%
	Male	87%	84%	86%	-1%	2%
	Non-Binary	n/a	67%	86%	n/a	19%
	Unreported	78%	96%	85%	7%	-11%
	<b>Overall</b>	<b>85%</b>	<b>83%</b>	<b>84%</b>	<b>-1%</b>	<b>1%</b>
All Credit Colleges	Female	79%	79%	80%	1%	1%
	Male	79%	77%	80%	1%	3%
	Non-Binary	n/a	67%	79%	n/a	12%
	Unreported	80%	76%	79%	-1%	3%
	<b>Overall</b>	<b>79%</b>	<b>78%</b>	<b>80%</b>	<b>1%</b>	<b>2%</b>

Talking Points

Report Finding	Discussion
<p>Online CTE courses accounted for 42% of all online sections across the district in 2019-20, before instruction was moved online in response to the COVID-19 pandemic (Section 2, page 7). In 2020-21, when the majority CTE courses were transitioned online, online success rates increased 4% (Section 15, page 20). This increase in success rates is remarkable as it reflects the majority of CTE enrollments that year (56,379, or 89% of the total).</p>	<p>CTE course offerings are diverse, but the transition to online instruction has not impeded student success.</p>
<p>Latinx representation in CTE courses is growing (Section 7, page 14), but gaps in success rates between Latinx students and the highest group have grown larger (Section 16, page 22).</p>	<p>Latinx students represent the largest or second-largest group of CTE students at each college. Success rate gaps for this group represent an increasingly concerning trend.</p>
<p>The gap between CTE success rates for African American students and the highest group has remained the largest over the last three years (Section 16, page 22).</p>	<p>Increased attention to support strategies for African American students is needed, as deep challenges to their success remain across the credit colleges.</p>
<p>The impact of COVID-19 on success rates varied by gender, ethnicity, and college (Section 13, page 19). Male Latinx and Pacific Islander students, and female Multi-Ethnicity and Filipino students all experienced larger decreases in success rates from Spring 2019 to Spring 2020 than other groups. These trends vary by college (see Tables 26 and 27, pages 29-30).</p>	<p>The intersections of ethnicity and gender carry important implications for how students' lives were impacted by the pandemic, and should inform strategies implemented to help these groups recover and improve academic progress.</p>



Appendix

Table 22. Top 15 CTE Course by Section Count, per college, part 1 of 2

		2018-19	2019-20	2020-21	3-Year Total
City College/ECC	CHIL 101	21	20	20	61
	NUTR 150	12	18	19	49
	CISC 181	16	13	13	42
	ACCT 116A	14	12	11	37
	RTVF 160	11	11	11	33
	ARTG 118	9	11	10	30
	BUSE 140	11	8	9	28
	WORK 270	15	10	1	26
	BUSE 119	9	8	8	25
	BUSE 100	7	8	10	25
	ARTG 100	7	9	8	24
	ARTG 106	7	8	8	23
	ACCT 116B	6	6	7	19
	PHOT 143	7	5	6	18
	MARK 100	5	6	7	18
	COSM 090L	8	7	3	18
	COSM 080L	8	7	3	18
	BUSE 092	6	6	6	18
Mesa College	BUSE 140	35	33	27	95
	CISC 181	33	33	26	92
	NUTR 150	30	31	28	89
	ACCT 116A	34	29	26	89
	BUSE 119	29	23	22	74
	ACCT 116B	24	22	20	66
	MEDA 110	21	21	21	63
	CHIL 101	22	21	19	62
	BUSE 100	23	20	18	61
	CISC 190	19	15	13	47
	WORK 270	10	17	16	43
	NUTR 153	10	12	12	34
	AMSL 150	9	11	10	30
	REAL 101	12	8	7	27
	MARK 100	10	9	8	27

Table 23. Top 15 CTE Course by Section Count, per college, part 2 of 2

		2018-19	2019-20	2020-21	3-Year Total
Miramar College	ADJU 361R	30	21	37	88
	BUSE 100	21	19	19	59
	EMGM 105A	23	21	14	58
	ADJU 101	20	16	16	52
	EMGM 106	23	12	14	49
	ACCT 116A	17	14	16	47
	ADJU 300A	26	15	3	44
	ACCT 116B	13	13	13	39
	NUTR 150	14	14	10	38
	BUSE 140	14	10	10	34
	MARK 100	13	9	11	33
	BUSE 119	12	11	10	33
	CHIL 101	12	12	8	32
	ADJU 361S	16	14	1	31
	ADJU 102	11	11	7	29
College of Continuing Education	PASV 530	59	57	53	169
	OFSY 575	54	35	29	118
	OFSY 596	58	41	18	117
	OFSY 541	54	40	15	109
	OFSY 577	53	33	13	99
	OFSY 528	45	29	6	80
	OFSY 500	44	29	6	79
	OFSY 501	43	24	6	73
	HLTH 605	25	21	24	70
	COMM 614	40	22	6	68
	COMP 628	40	20	7	67
	OFSY 599	39	23	4	66
	HMDV 626	30	32	4	66
	OFSY 516	38	12	15	65
	OFSY 510	39	23	2	64

Table 24. CTE Enrollments by Modality

	Modality	2018-19	2019-20	2020-21	18-19 to 20-21 Diff.	18-19 to 20-21 % Change
City College/ECC	Online	7,566	8,659	16,562	8,996	119%
	On-campus	11,313	10,183	378	-10,935	-97%
Mesa College	Online	11,562	13,905	23,868	12,306	106%
	On-campus	15,171	12,598	1,206	-13,965	-92%
Miramar College	Online	9,111	10,003	15,949	6,838	75%
	On-campus	19,231	14,677	5,668	-13,563	-71%
<b>All Credit Colleges</b>	<b>Online</b>	<b>28,239</b>	<b>32,567</b>	<b>56,379</b>	<b>28,140</b>	<b>100%</b>
	<b>On-campus</b>	<b>45,715</b>	<b>37,458</b>	<b>7,252</b>	<b>-38,463</b>	<b>-84%</b>

Table 25. CTE Success Rates, by Ethnicity, by College

		2018-19	2019-20	2020-21	18-19 to 20-21 Diff.
City College/ECC	African American	67%	67%	69%	2%
	Asian	84%	80%	87%	3%
	Filipino	81%	73%	78%	-3%
	Latinx	73%	70%	72%	-1%
	Multi-Ethnicity	77%	73%	73%	-4%
	Native American	84%	67%	68%	-16%
	Pacific Islander	78%	75%	68%	-10%
	Unknown	75%	65%	74%	-1%
	White	81%	78%	81%	0%
	<b>Overall</b>	<b>76%</b>	<b>73%</b>	<b>76%</b>	<b>0%</b>
Mesa College	African American	61%	68%	70%	9%
	Asian	83%	86%	89%	6%
	Filipino	78%	83%	85%	7%
	Latinx	72%	72%	73%	1%
	Multi-Ethnicity	75%	76%	76%	1%
	Native American	79%	86%	74%	-5%
	Pacific Islander	76%	78%	81%	5%
	Unknown	81%	77%	79%	-2%
	White	79%	80%	83%	4%
	<b>Overall</b>	<b>76%</b>	<b>77%</b>	<b>79%</b>	<b>3%</b>
Miramar College	African American	75%	73%	75%	0%
	Asian	88%	86%	89%	1%
	Filipino	84%	80%	84%	0%
	Latinx	81%	79%	79%	-2%
	Multi-Ethnicity	81%	80%	80%	-1%
	Native American	87%	81%	82%	-5%
	Pacific Islander	85%	76%	85%	0%
	Unknown	91%	87%	81%	-10%
	White	88%	87%	88%	0%
	<b>Overall</b>	<b>85%</b>	<b>83%</b>	<b>84%</b>	<b>-1%</b>

Table 26. Spring CTE Success Rates for Male students, by Ethnicity and College

		2019	2020	2021	Spr. 19 to Spr. 20 Diff.
City College/ ECC	African American	58%	61%	61%	3%
	Asian	84%	69%	83%	-15%
	Filipino	76%	73%	84%	-3%
	Latinx	74%	63%	72%	-11%
	Multi-Ethnicity	72%	70%	70%	-2%
	Native American	95%	68%	58%	-27%
	Pacific Islander	75%	66%	85%	-9%
	Unknown	78%	56%	79%	-22%
	White	78%	70%	81%	-8%
	<b>Total</b>	<b>75%</b>	<b>66%</b>	<b>75%</b>	<b>-9%</b>
Mesa College	African American	57%	62%	69%	5%
	Asian	80%	80%	83%	0%
	Filipino	74%	79%	85%	5%
	Latinx	71%	68%	66%	-3%
	Multi-Ethnicity	73%	74%	76%	1%
	Native American	50%	90%	70%	40%
	Pacific Islander	58%	67%	78%	9%
	Unknown	66%	70%	81%	4%
	White	77%	75%	80%	-2%
	<b>Total</b>	<b>73%</b>	<b>72%</b>	<b>75%</b>	<b>-1%</b>
Miramar College	African American	78%	70%	72%	-8%
	Asian	88%	86%	87%	-2%
	Filipino	83%	78%	88%	-5%
	Latinx	84%	76%	83%	-8%
	Multi-Ethnicity	85%	75%	80%	-10%
	Native American	85%	88%	78%	3%
	Pacific Islander	93%	64%	92%	-29%
	Unknown	91%	81%	78%	-10%
	White	89%	83%	89%	-6%
	<b>Total</b>	<b>87%</b>	<b>79%</b>	<b>85%</b>	<b>-8%</b>

Table 27. Spring CTE Success Rates for Female Students, by Ethnicity and College

		2019	2020	2021	Spr. 19 to Spr. 20 Diff.
City College/ ECC	African American	74%	66%	70%	-8%
	Asian	85%	81%	89%	-4%
	Filipino	86%	74%	81%	-12%
	Latinx	74%	71%	72%	-3%
	Multi-Ethnicity	82%	72%	73%	-10%
	Native American	73%	74%	90%	1%
	Pacific Islander	72%	79%	58%	7%
	Unknown	72%	76%	75%	4%
	White	86%	79%	84%	-7%
	<b>Total</b>	<b>79%</b>	<b>73%</b>	<b>77%</b>	<b>-6%</b>
Mesa College	African American	62%	73%	73%	11%
	Asian	85%	89%	91%	4%
	Filipino	78%	84%	86%	6%
	Latinx	76%	75%	74%	-1%
	Multi-Ethnicity	82%	75%	78%	-7%
	Native American	83%	90%	100%	7%
	Pacific Islander	86%	81%	79%	-5%
	Unknown	81%	81%	85%	0%
	White	82%	84%	86%	2%
	<b>Total</b>	<b>78%</b>	<b>80%</b>	<b>81%</b>	<b>2%</b>
Miramar College	African American	71%	70%	74%	-1%
	Asian	90%	85%	90%	-5%
	Filipino	84%	76%	74%	-8%
	Latinx	76%	74%	74%	-2%
	Multi-Ethnicity	85%	81%	78%	-4%
	Native American	69%	67%	83%	-2%
	Pacific Islander	47%	53%	47%	6%
	Unknown	87%	80%	81%	-7%
	White	85%	83%	85%	-2%
	<b>Total</b>	<b>82%</b>	<b>79%</b>	<b>80%</b>	<b>-3%</b>

Table 28. Gaps in CTE Success Rates between the highest group (Asian) and other ethnicities

		2018-19	2019-20	2020-21
City College/ ECC	African American	-17%	-13%	-18%
	Latinx	-11%	-10%	-15%
	Multi-ethnicity	-7%	-7%	-14%
	Filipino	-3%	-7%	-9%
	Native American	0%	-13%	-19%
	Pacific Islander	-6%	-5%	-19%
Mesa College	African American	-22%	-18%	-19%
	Latinx	-11%	-14%	-16%
	Multi-ethnicity	-8%	-10%	-13%
	Filipino	-5%	-3%	-4%
	Native American	-4%	0%	-15%
	Pacific Islander	-7%	-8%	-8%
Miramar College	African American	-13%	-13%	-14%
	Latinx	-7%	-7%	-10%
	Multi-ethnicity	-7%	-6%	-9%
	Filipino	-4%	-6%	-5%
	Native American	-1%	-5%	-7%
	Pacific Islander	-3%	-10%	-4%