Building Our Future

SCSD — SYRACUSE CITY SCHOOL DISTRICT

Career and Technical Education Program (CTE) Data Review

Enrollment, Demographics, Attendance, Academics, and Graduation

May 2024

Focus Area

Enrollment: Slide 2 - 4 (SIRS-313 Beds Enrollment)
- Trends in overall CTE Enrollment among SCSD High School students
- Trends in CTE Enrollment within CTE Programs

Demographics: Slide 5 - 11 (SchoolTool)
- Ethnicity
- Gender
- IEP
- ELL
- Poverty

Attendance: Slide 12 - 13 (SchoolTool)
- Average Days Absent (CTE vs. Non-CTE)
- Average Daily Attendance Rate

Academic Performance: Slide 14 - 16 (SchoolTool/SIRS-309/653 Annual Regents)
- Grade Point Average (GPA)
- Regents Passing Rates
- Credit Accrual

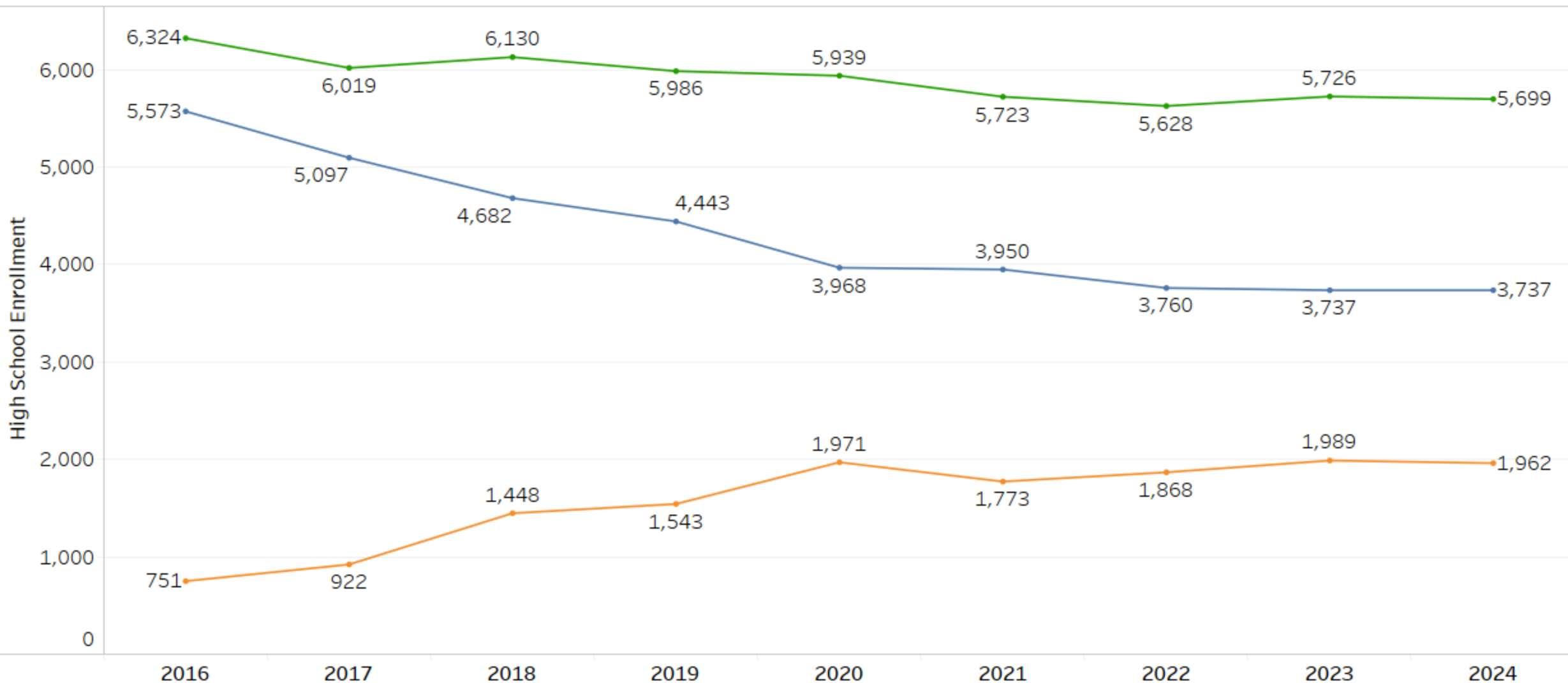**Graduation:** Slide 17 (SIRS-201 Total Cohort)
- 4 Year Outcomes by Cohort

Enrollment

CTE HS Students vs. HS Non CTE Students
(HS Total# Shown as Green)
2016SY to 2024SY

Legend:
- Not CTE
- CTE

High School Enrollment

Year	HS Total (Green)	Not CTE (Blue)	CTE (Orange)
2016	6,324	5,573	751
2017	6,019	5,097	922
2018	6,130	4,682	1,448
2019	5,986	4,443	1,543
2020	5,939	3,968	1,971
2021	5,723	3,950	1,773
2022	5,628	3,760	1,868
2023	5,726	3,737	1,989
2024	5,699	3,737	1,962

Enrollment

CTE HS Students vs. HS Non CTE Students
2020SY to 2024SY

Legend: Not CTE, CTE

Year	Not CTE	CTE
2020	66.8%	33.2%
2021	69.0%	31.0%
2022	66.8%	33.2%
2023	65.3%	34.7%
2024	65.6%	34.4%
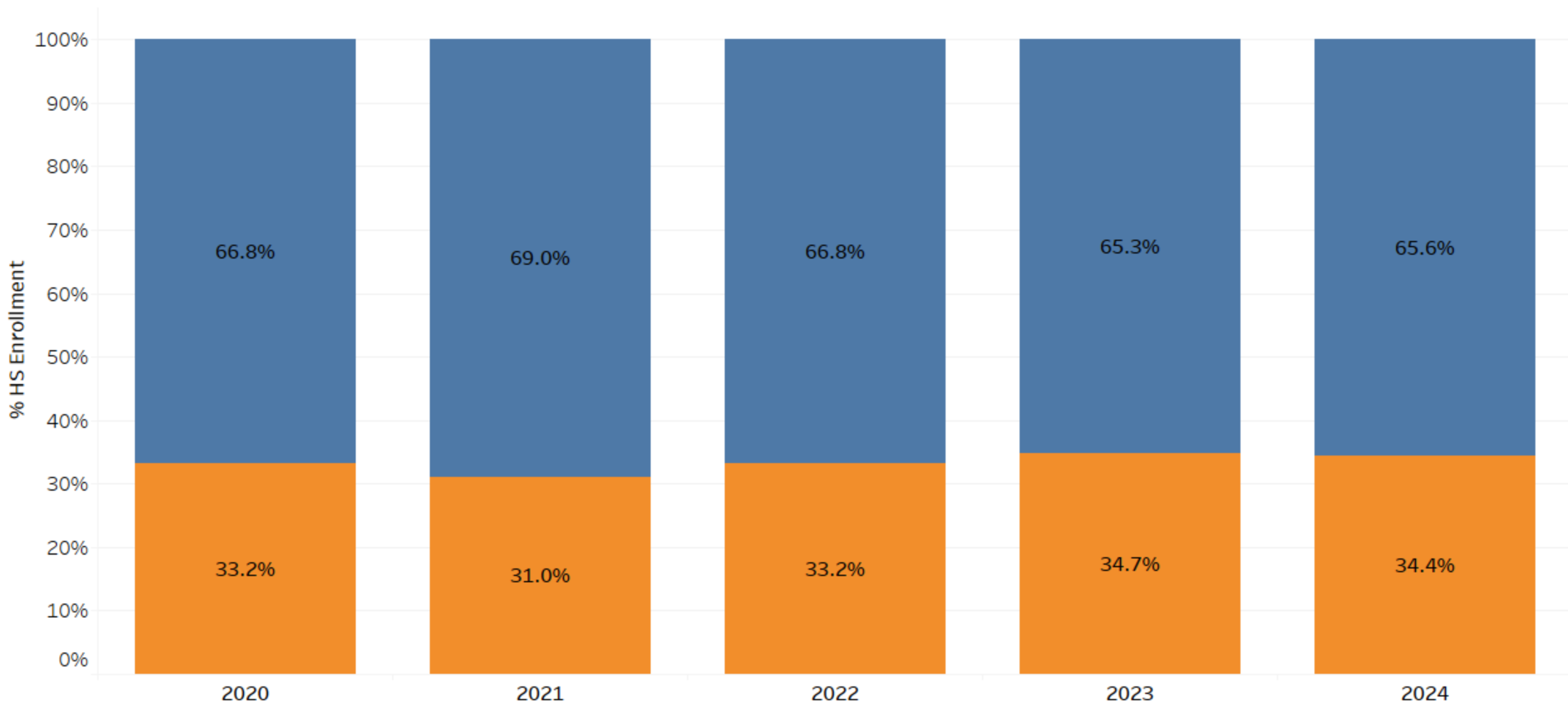
% HS Enrollment

HS Enrollment by CTE Program

2020SY to 2024SY
Updated Feb 2024

CTE Program Name	2020	2021	2022	2023	2024
Automotive	76	83	77	80	79
Barbering	62	66	80	78	74
Biotechnology	34	70	75	63	86
Business Technology	87	90	160	150	133
Clinical Lab Technology	46	40	32	35	28
Computer Forensics	80	37	38	57	45
Computer Information Systems	33	42	56	70	65
Construction Technology	104	82	82	77	96
Cosmetology	107	105	103	124	117
Culinary Arts	109	113	103	99	90
Cybersecurity	43	57	60	67	66
Drone Technology	58	37	38	56	64
Electrical Engineering Technology	11	14			27
Electrical Trades	80	59	59	67	62
Emergency Medical Technician	94	54	56	72	63
Fire/Rescue	45	30	42	43	50
Forensic Science	73	53	67	75	78
Geospatial Technology	35	30	35	28	25
Health Information Technology	30	20	23	18	15
Health Professions	71	78	84	96	107
Law Enforcement	91	94	84	86	80
Manufacturing Technology	16	21	23	31	27
Mechanical Engineering Technology	167	139	141	148	112
Media Communications	108	99	106	107	100
Medical Assisting	70	61	48	58	61
Natural Resources	78	77	67	73	82
NJROTC	79	49	64	61	58
Urban Teacher Preparation	27	27	23	25	26
Welding	57	46	42	45	46
Grand Total	1,971	1,773	1,868	1,989	1,962

CTE Enrollment: Ethnicity

(District HS Average for Each Year Displayed as Short Red Bar)
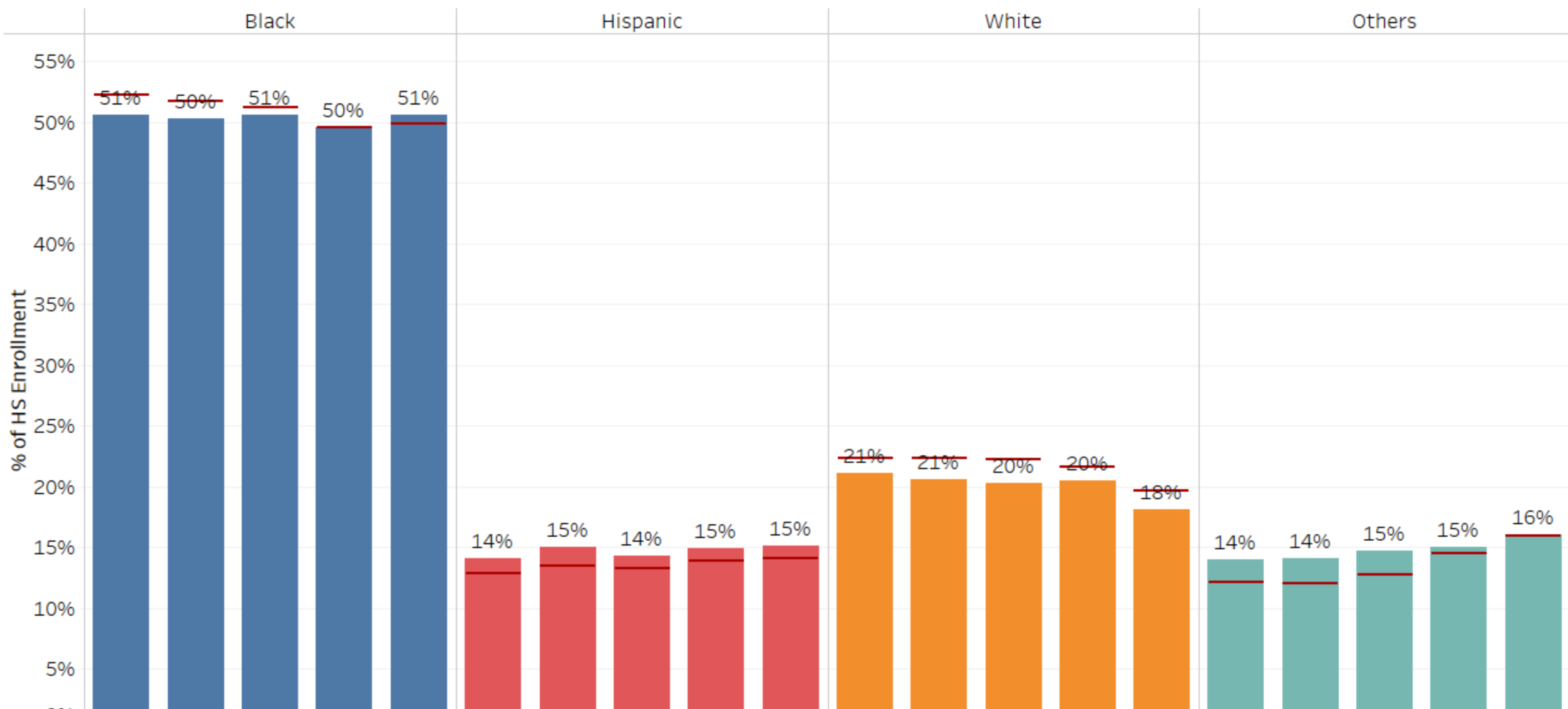
2020SY to 2024SY

5 - DEMOGRAPHICS

High School Enrollment: Gender

(District HS Average for Each Year Displayed as Short Red Bar)
2020SY to 2024SY

Legend: Male (green), Female (red)

Year	Category	Male	Female
2020	Not CTE	51.1%	48.9%
2020	CTE	54.3%	45.7%
2021	Not CTE	51.8%	48.2%
2021	CTE	51.6%	48.4%
2022	Not CTE	51.0%	49.0%
2022	CTE	51.9%	48.1%
2023	Not CTE	52.9%	47.1%
2023	CTE	51.3%	48.7%
2024	Not CTE	52.8%	47.2%
2024	CTE	52.4%	47.6%
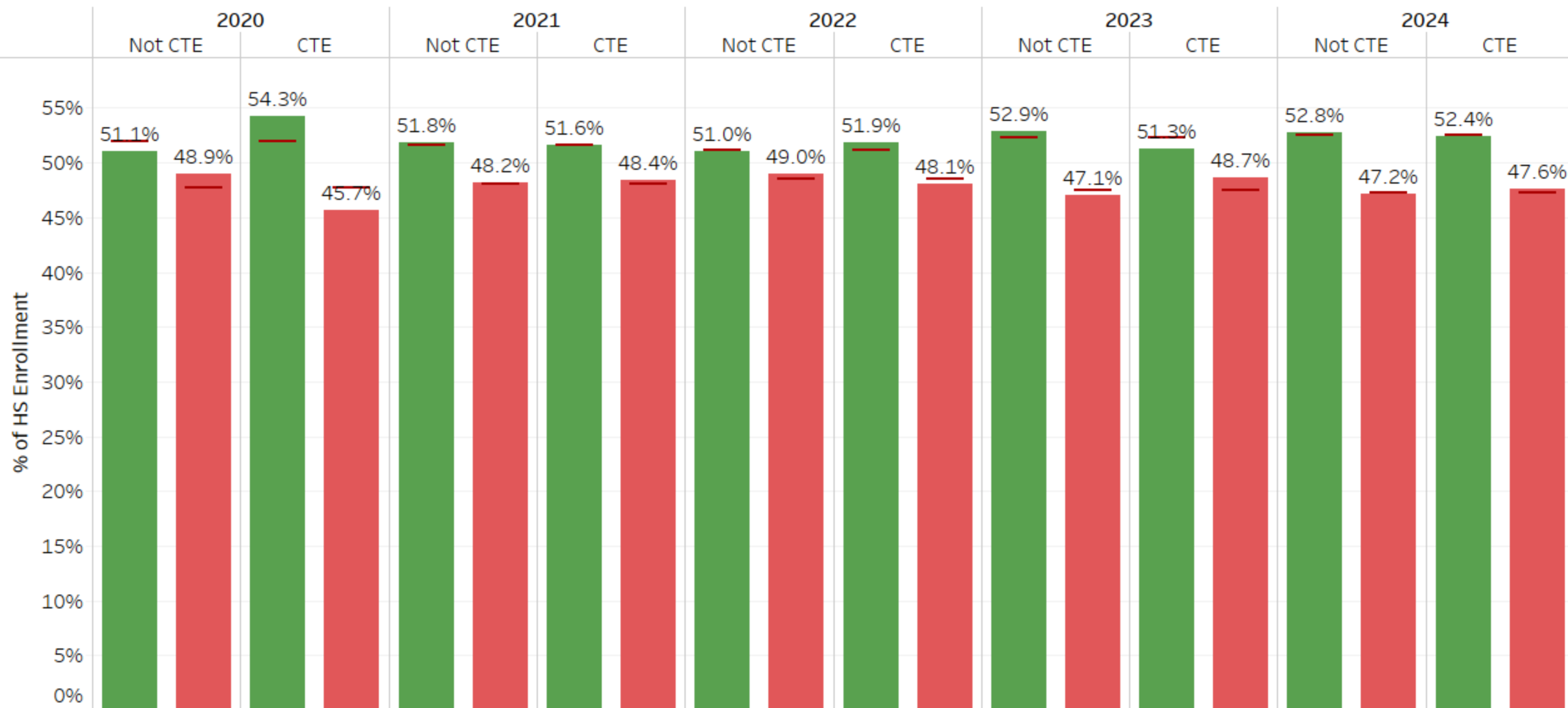
% of HS Enrollment

HS Enrollment: Students with a Disability

CTE HS Students vs. Non-CTE HS Students
*(District HS SWD Average for Each Year Displayed as Short **Red** Bar)*
2020SY to 2024SY

Legend: ■ Not CTE ■ CTE
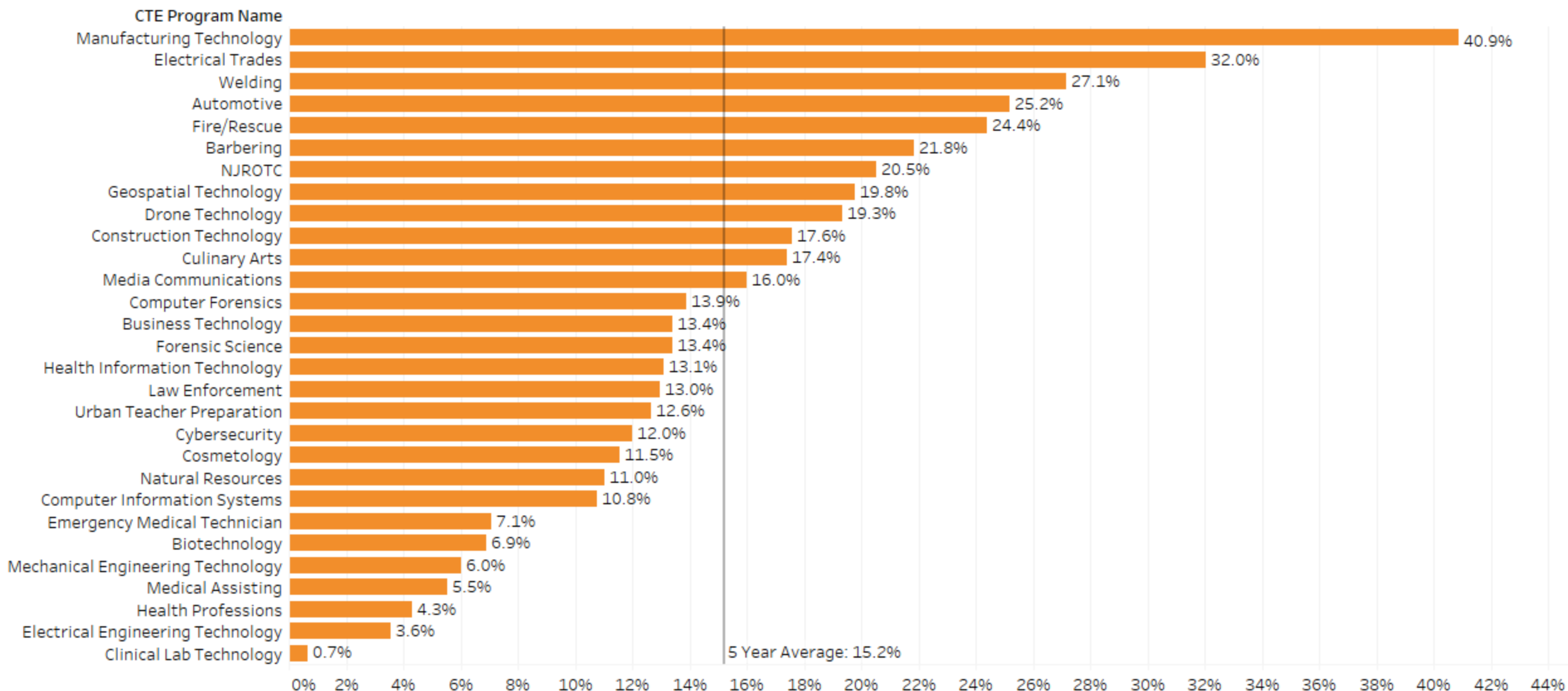

2020
- Not CTE: 17.2%
- CTE: 13.6%

2021
- Not CTE: 24.3%
- CTE: 16.0%

2022
- Not CTE: 24.6%
- CTE: 16.0%

2023
- Not CTE: 23.5%
- CTE: 15.7%

2024
- Not CTE: 23.4%
- CTE: 16.0%

Y-axis: % of HS Enrollment (0% to 25%)

SWD Enrollment by CTE Program

2020SY to 2024SY
(5 Year Average)

CTE Program Name

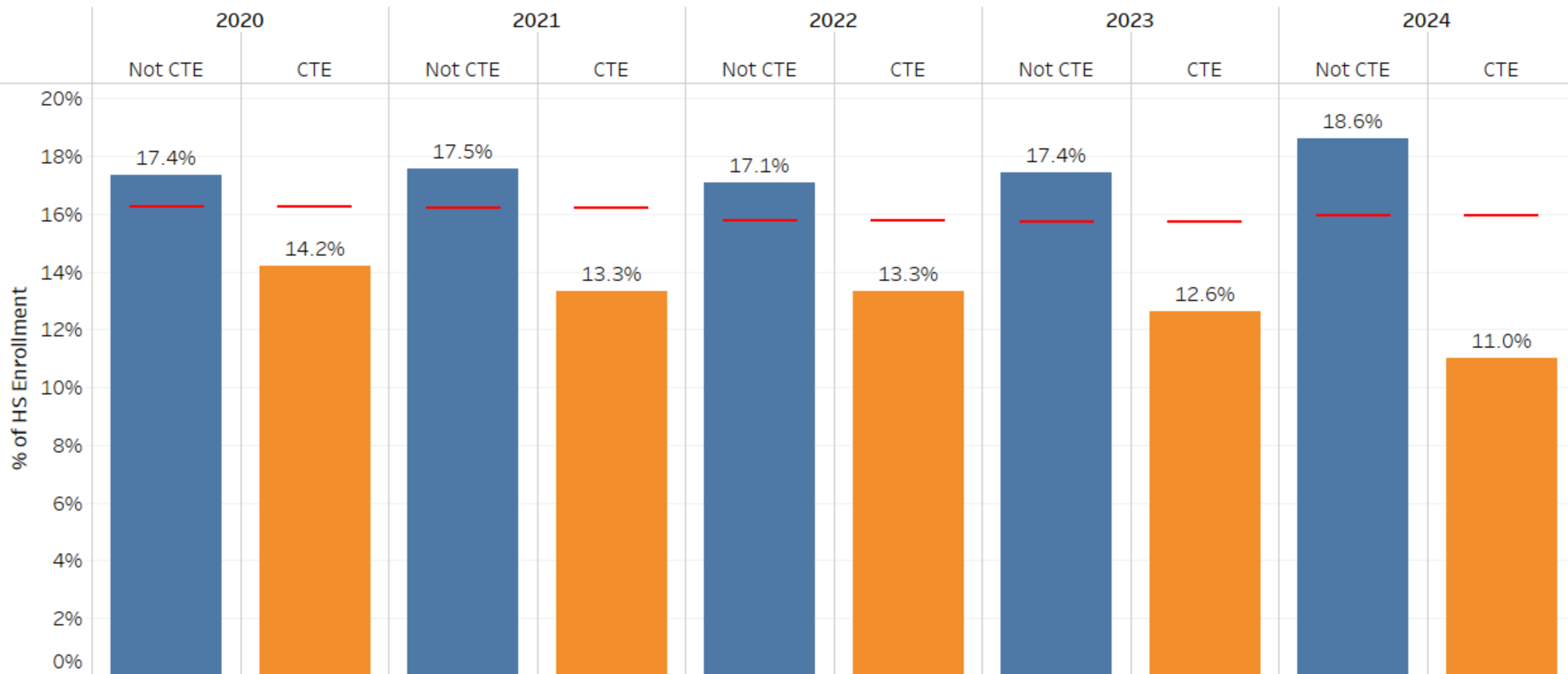| Program	Percentage
Manufacturing Technology	40.9%
Electrical Trades	32.0%
Welding	27.1%
Automotive	25.2%
Fire/Rescue	24.4%
Barbering	21.8%
NJROTC	20.5%
Geospatial Technology	19.8%
Drone Technology	19.3%
Construction Technology	17.6%
Culinary Arts	17.4%
Media Communications	16.0%
Computer Forensics	13.9%
Business Technology	13.4%
Forensic Science	13.4%
Health Information Technology	13.1%
Law Enforcement	13.0%
Urban Teacher Preparation	12.6%
Cybersecurity	12.0%
Cosmetology	11.5%
Natural Resources	11.0%
Computer Information Systems	10.8%
Emergency Medical Technician	7.1%
Biotechnology	6.9%
Mechanical Engineering Technology	6.0%
Medical Assisting	5.5%
Health Professions	4.3%
Electrical Engineering Technology	3.6%
Clinical Lab Technology	0.7%

5 Year Average: 15.2%

HS Enrollment: English Language Learners

CTE HS Students vs. Non-CTE HS Students
(District HS ELL Average for Each Year Displayed as Short Red Bar)
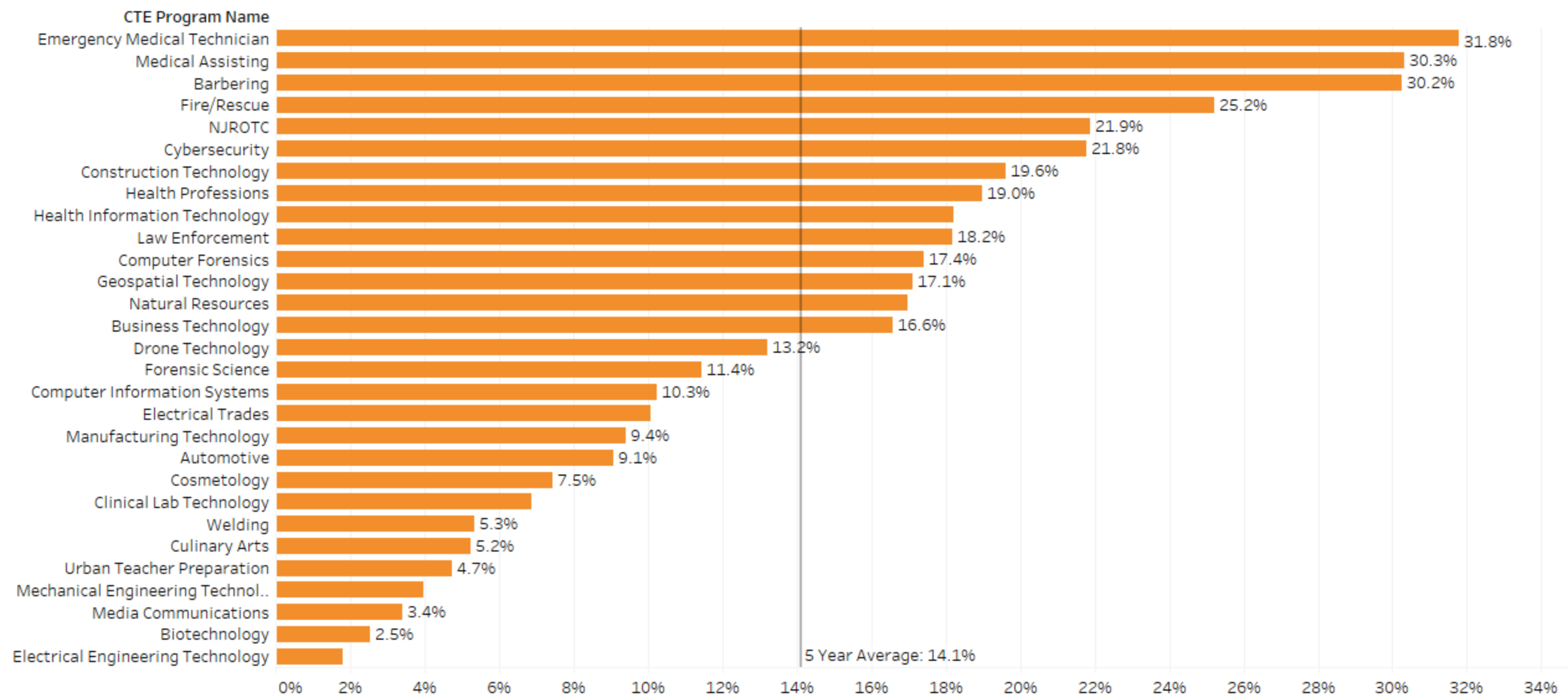*2020SY to 2024SY*

Legend: Not CTE, CTE

	2020		2021		2022		2023		2024	
	Not CTE	CTE	Not CTE	CTE	Not CTE	CTE	Not CTE	CTE	Not CTE	CTE
% of HS Enrollment	17.4%	14.2%	17.5%	13.3%	17.1%	13.3%	17.4%	12.6%	18.6%	11.0%

9 - DEMOGRAPHICS

ELL Enrollment by CTE Program

2020SY to 2024SY
(5 Year Average)

CTE Program Name

| CTE Program Name	ELL Enrollment %
Emergency Medical Technician	31.8%
Medical Assisting	30.3%
Barbering	30.2%
Fire/Rescue	25.2%
NJROTC	21.9%
Cybersecurity	21.8%
Construction Technology	19.6%
Health Professions	19.0%
Health Information Technology	
Law Enforcement	18.2%
Computer Forensics	17.4%
Geospatial Technology	17.1%
Natural Resources	
Business Technology	16.6%
Drone Technology	13.2%
Forensic Science	11.4%
Computer Information Systems	10.3%
Electrical Trades	
Manufacturing Technology	9.4%
Automotive	9.1%
Cosmetology	7.5%
Clinical Lab Technology	
Welding	5.3%
Culinary Arts	5.2%
Urban Teacher Preparation	4.7%
Mechanical Engineering Technol..	
Media Communications	3.4%
Biotechnology	2.5%
Electrical Engineering Technology	

5 Year Average: 14.1%

10 - DEMOGRAPHICS

HS Enrollment: Economically Disadvantaged
CTE HS Students vs. Non-CTE HS Students
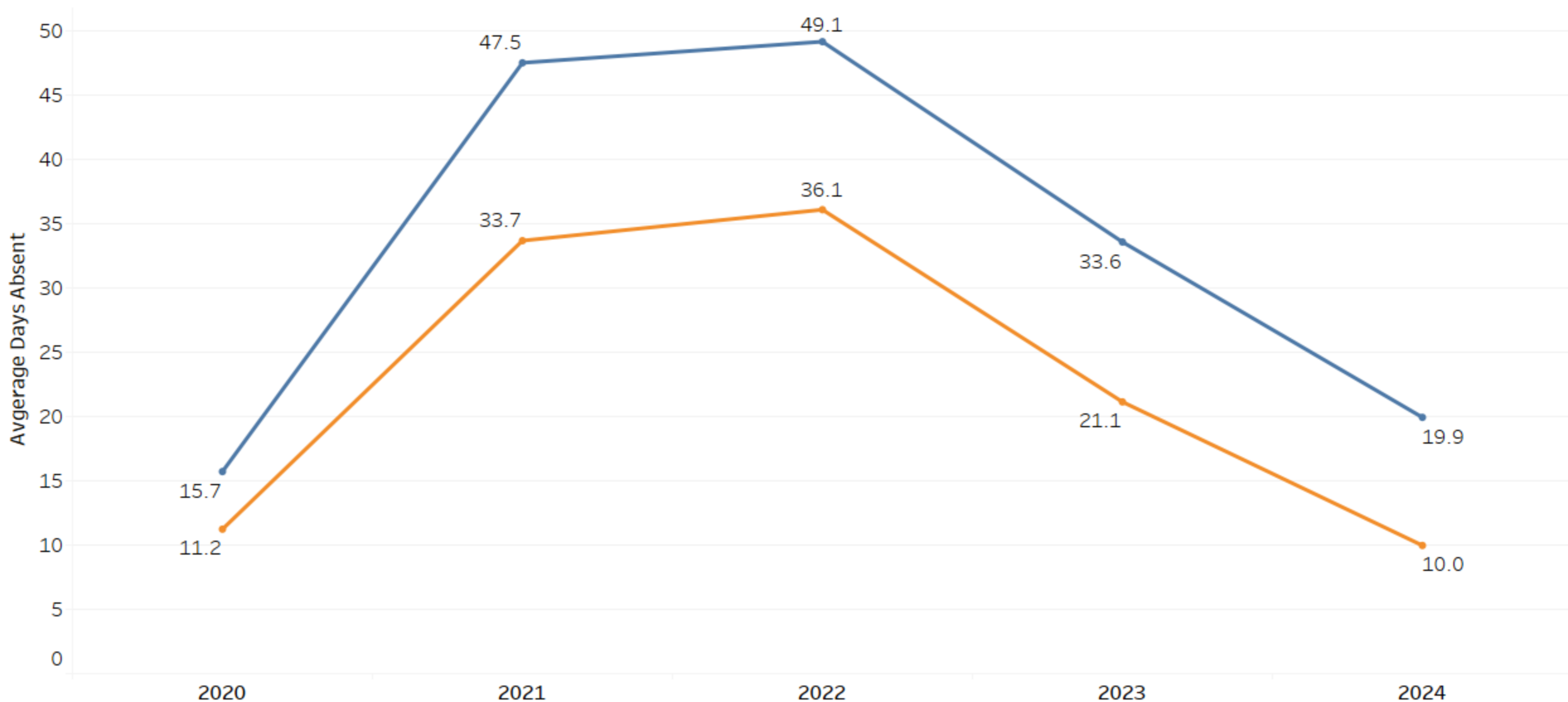(District HS ED Average for Each Year Displayed as Short Red Bar)
2022SY to 2024SY

11 - DEMOGRAPHICS
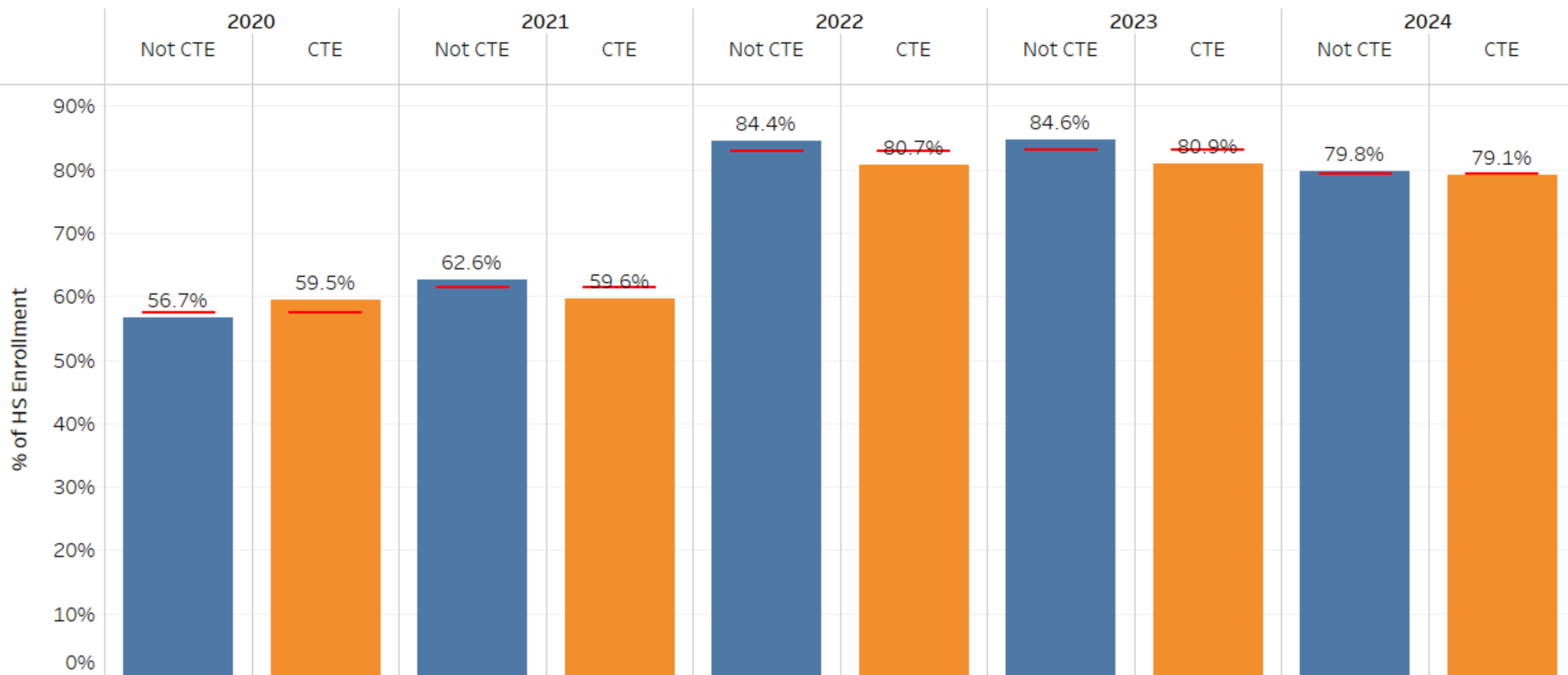
Average Days Absent

CTE HS Students vs. Non-CTE HS Students
2020SY to 2024SY

Not CTE
CTE

Avgerage Days Absent

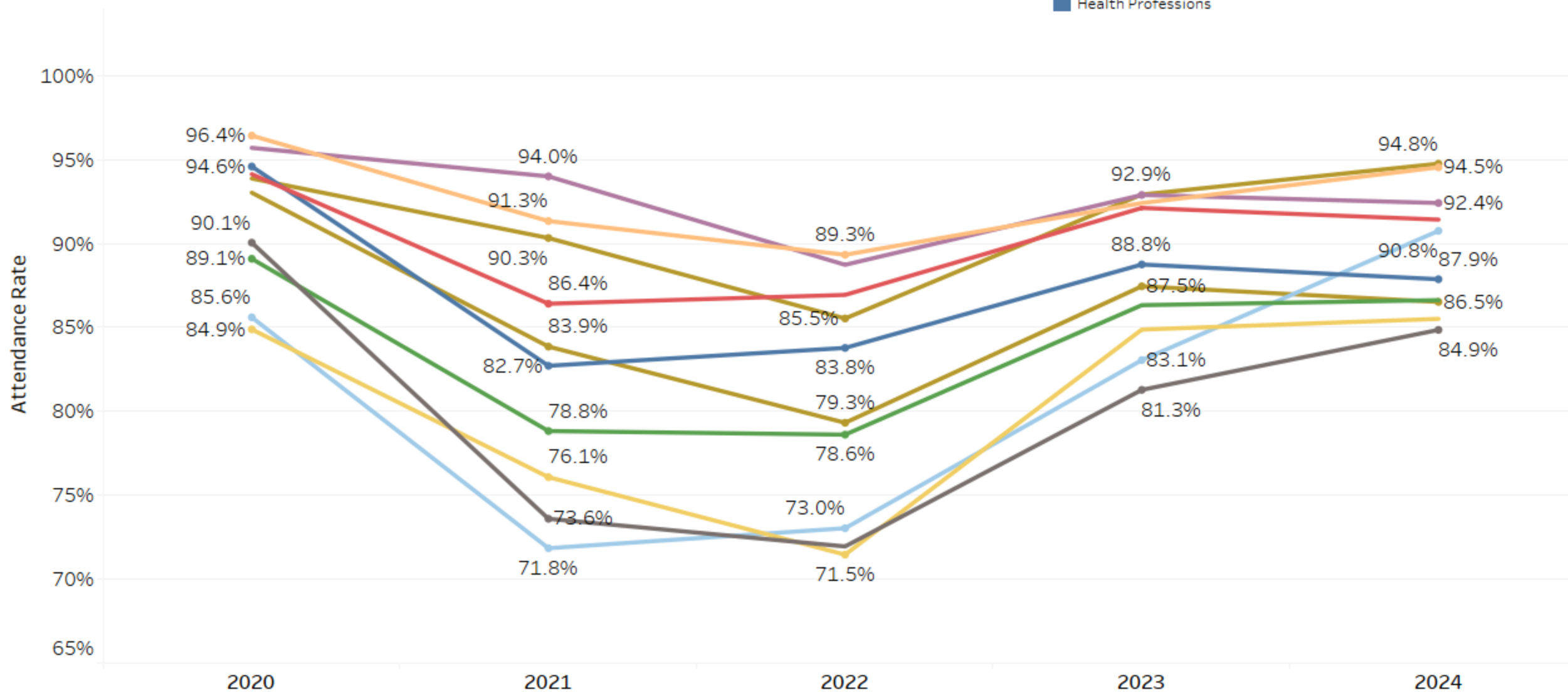| Year	Not CTE	CTE
2020	15.7	11.2
2021	47.5	33.7
2022	49.1	36.1
2023	33.6	21.1
2024	19.9	10.0

12 - ATTENDANCE

Average Daily Attendance

Among CTE HS Students in CTE Pathways
2020SY to 2024SY
Only Top 10 2024SY Enrollment Programs Shown

Legend:
- Biotechnology
- Business Technology
- Construction Technology
- Cosmetology
- Culinary Arts
- Health Professions
- Law Enforcement
- Mechanical Engineering Te..
- Media Communications
- Natural Resources

Attendance Rate (y-axis): 65%, 70%, 75%, 80%, 85%, 90%, 95%, 100%

Years (x-axis): 2020, 2021, 2022, 2023, 2024

Data labels:
- 2020: 96.4%, 94.6%, 90.1%, 89.1%, 85.6%, 84.9%
- 2021: 94.0%, 91.3%, 90.3%, 86.4%, 83.9%, 82.7%, 78.8%, 76.1%, 73.6%, 71.8%
- 2022: 89.3%, 85.5%, 83.8%, 79.3%, 78.6%, 73.0%, 71.5%
- 2023: 92.9%, 88.8%, 87.5%, 83.1%, 81.3%
- 2024: 94.8%, 94.5%, 92.4%, 90.8%, 87.9%, 86.5%, 84.9%

13 - ATTENDANCE

Average GPA

CTE HS Students vs. Non-CTE HS Students
2019SY to 2023SY

Legend: Not CTE ▪ CTE ▪

	2019	2020	2021	2022	2023
Not CTE	74.0	75.1	71.8	71.3	74.3
CTE	81.5	76.2	77.7	77.9	81.4

Regents Passing Rate

CTE HS Students vs. Non-CTE HS Students
2018SY to 2023SY

Legend: Not CTE, CTE

Year	Not CTE	CTE
2018	44.6%	47.8%
2019	46.6%	51.9%
2020	76.5%	78.2%
2021	100.0%	100.0%
2022	70.2%	72.5%
2023	40.3%	49.2%

Regents Pass Rate
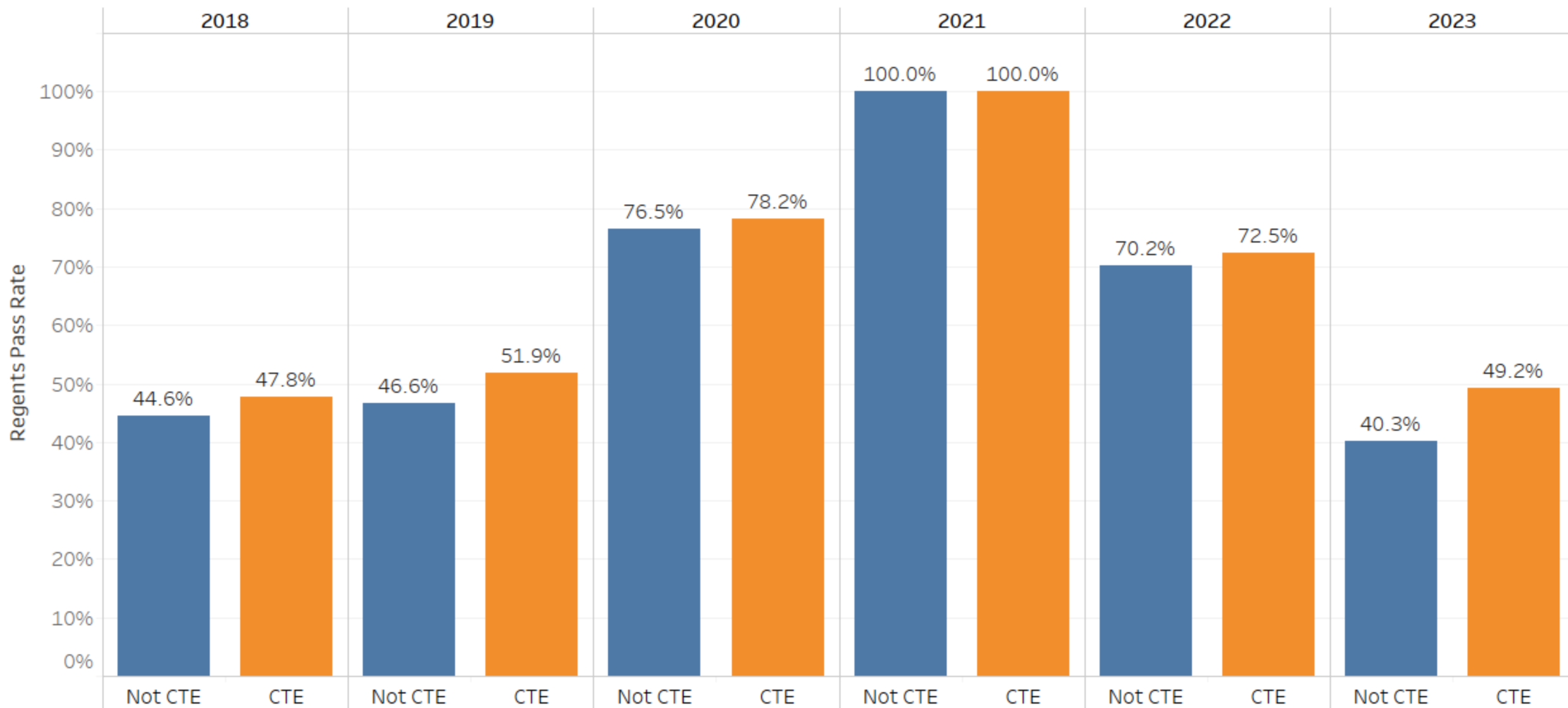
Average Annual Credit Accrual
CTE HS Students vs. Non-CTE HS Students
2020SY to 2023SY

Legend: ■ Not CTE ■ CTE

Y-axis: Average Credits Earned

	2020	2021	2022	2023
Not CTE	4.5	7.0	4.1	4.5
CTE	5.6	6.9	5.1	5.1

16 - ACADEMICS