



JUMPSTARTS: HIGH SCHOOL PATHWAYS THAT PREDICT POSTSECONDARY SUCCESS



E3 ALLIANCESM
EDUCATION EQUALS ECONOMICS

Today's E3 Alliance Presenters



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AGENDA

- Introduction to E3 Alliance
- Pathways to Prosperity Introduction
- Pathways to Prosperity Analysis
 - The Cohort
 - The Achievements
 - The Pathways



**Transforming education
systems through data and
collaboration so all students
succeed.**

E3 serves as the Central Texas regional P-16 Council



LEVERAGING DATA TO ACTION



DATA



KNOWLEDGE



ACTION



WHY SHOULD WE CARE?



12%

Young adults without a certification, credential or degree within 6 years of finishing high school have just a 12% chance of earning a living wage



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Pathways to Prosperity

Jumpstarts: Central Texas Class of 2020
Analysis



RESEARCH QUESTION

Does taking Dual Credit / Career and Technical Education (CTE) courses, receiving Industry-Based Certifications (IBC), and/or participating in Early College High School make a high school graduate more likely to:

- Enroll in postsecondary education
- Not enroll, and make \$15/hr or more
- Not enroll, and make less than \$15/hr



THE PROCESS



THE COHORT

- **Central Texas High School Graduating Class of 2020**
 - **Attended a Texas HS all four years**
 - **Graduated on time from a CTX HS**
- **19,752 Students**
 - **43% Low Income, 50% Female, 8% SPED, 8% EL**
 - **6% Asian, 7% Black, 43% Hispanic, 40% White**



THE PROCESS



THE ACHIEVEMENTS

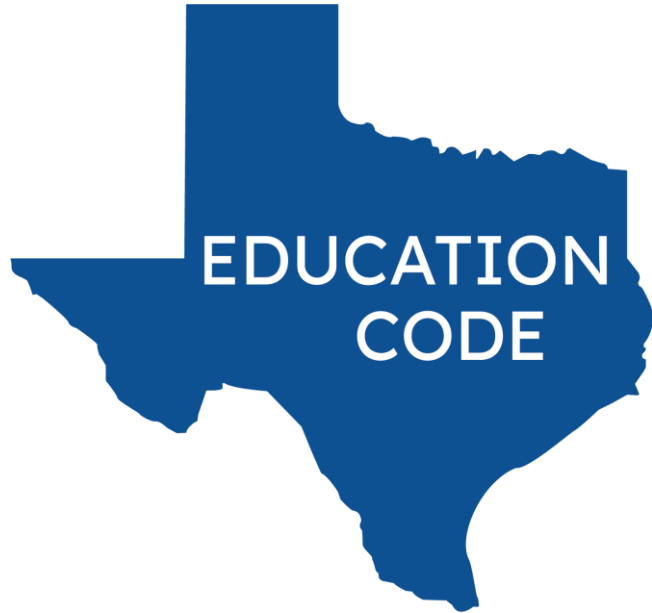


FAST FACTS

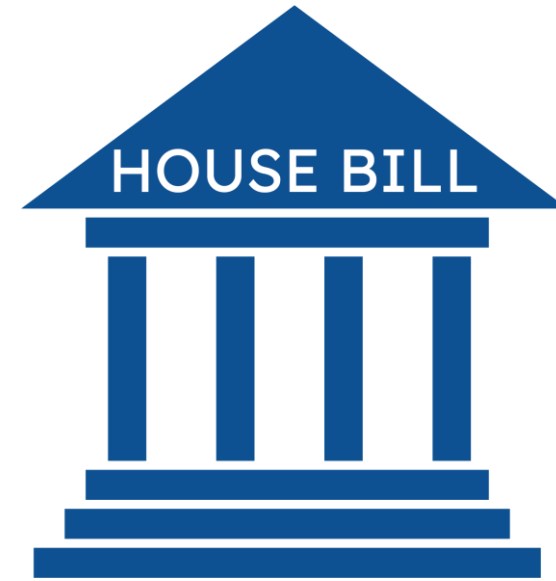
- **Of the 19,752 CTX High School Graduates from 2020:**
 - **Over 17,000 students (88%) took at least one CTE course**
 - **Over 4,900 students (25%) took at least one DC course**
 - **Over 2,000 students (10%) received at least one IBC**
 - **Over 700 students (4%) participated in an ECHS program**



IMPORTANT DUAL CREDIT POLICY CHANGES



Sec. 28.009, 2006



House Bill 505, 2014

OTHER POLICY IMPLICATIONS

- Cost of dual credit courses
 - Cost of Community College dual credit courses taken in high school varies significantly by college/geography across the state
 - Even in ACC service area, students in taxing district pay only cost of textbooks; students in service area but outside taxing district must pay both textbook and tuition costs



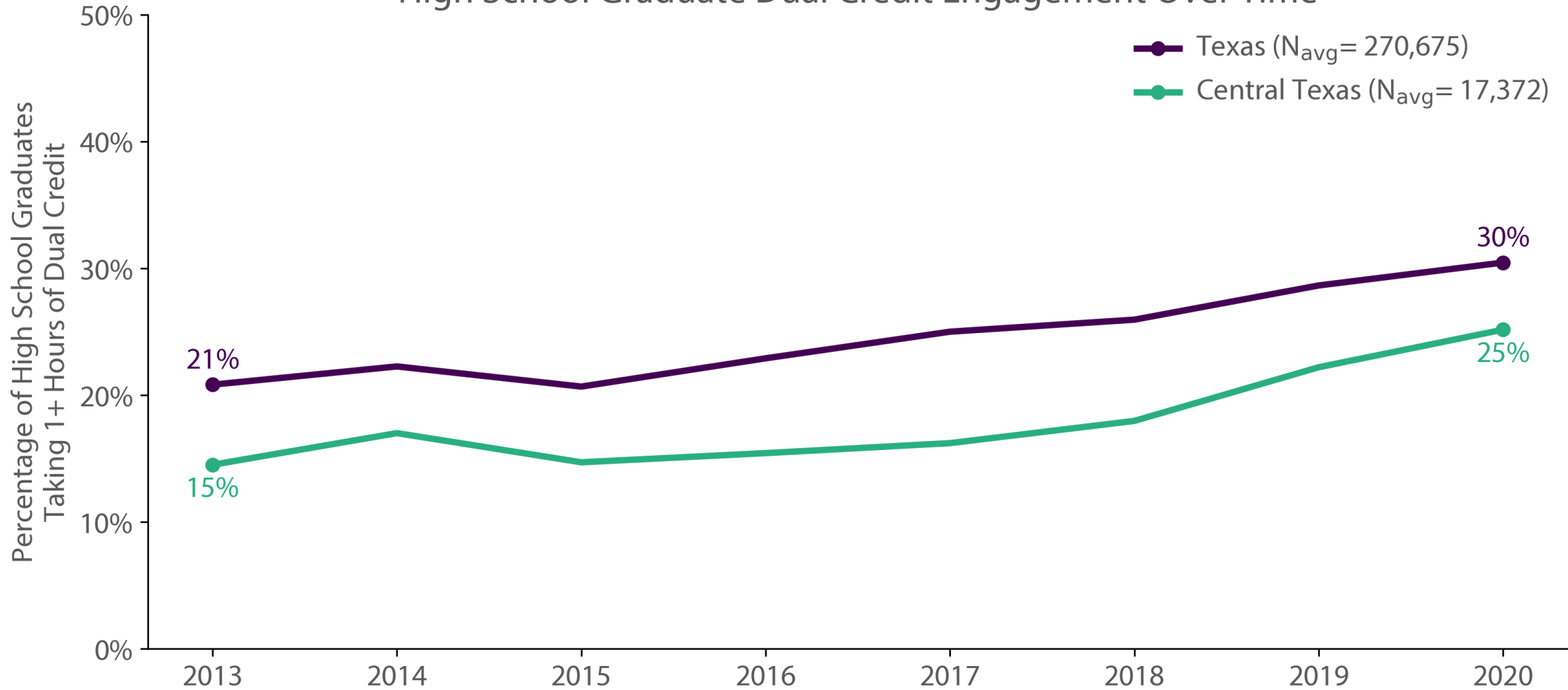
DUAL CREDIT DEFINITIONS



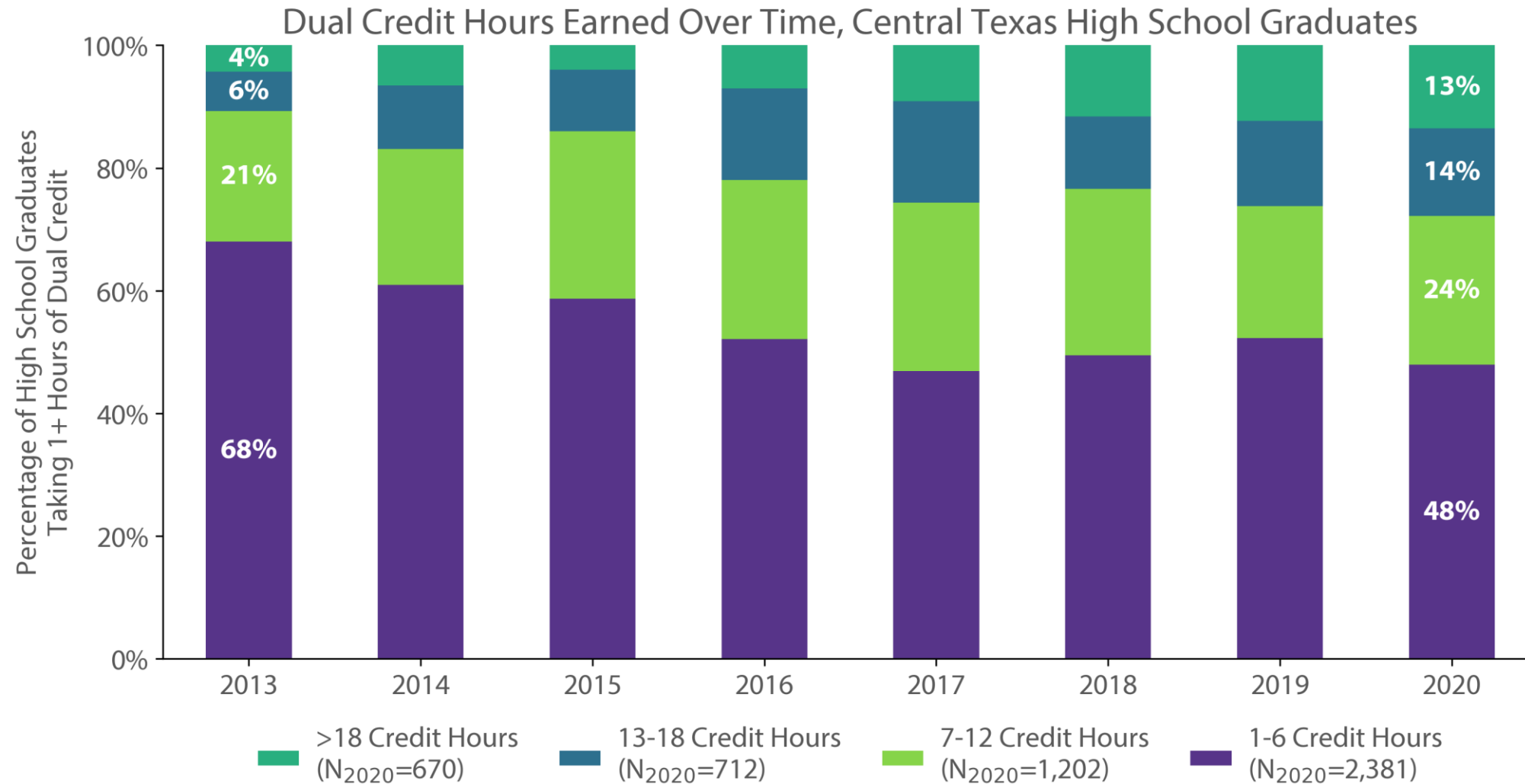
Dual Credit

DUAL CREDIT ENGAGEMENT INCREASING OVER TIME

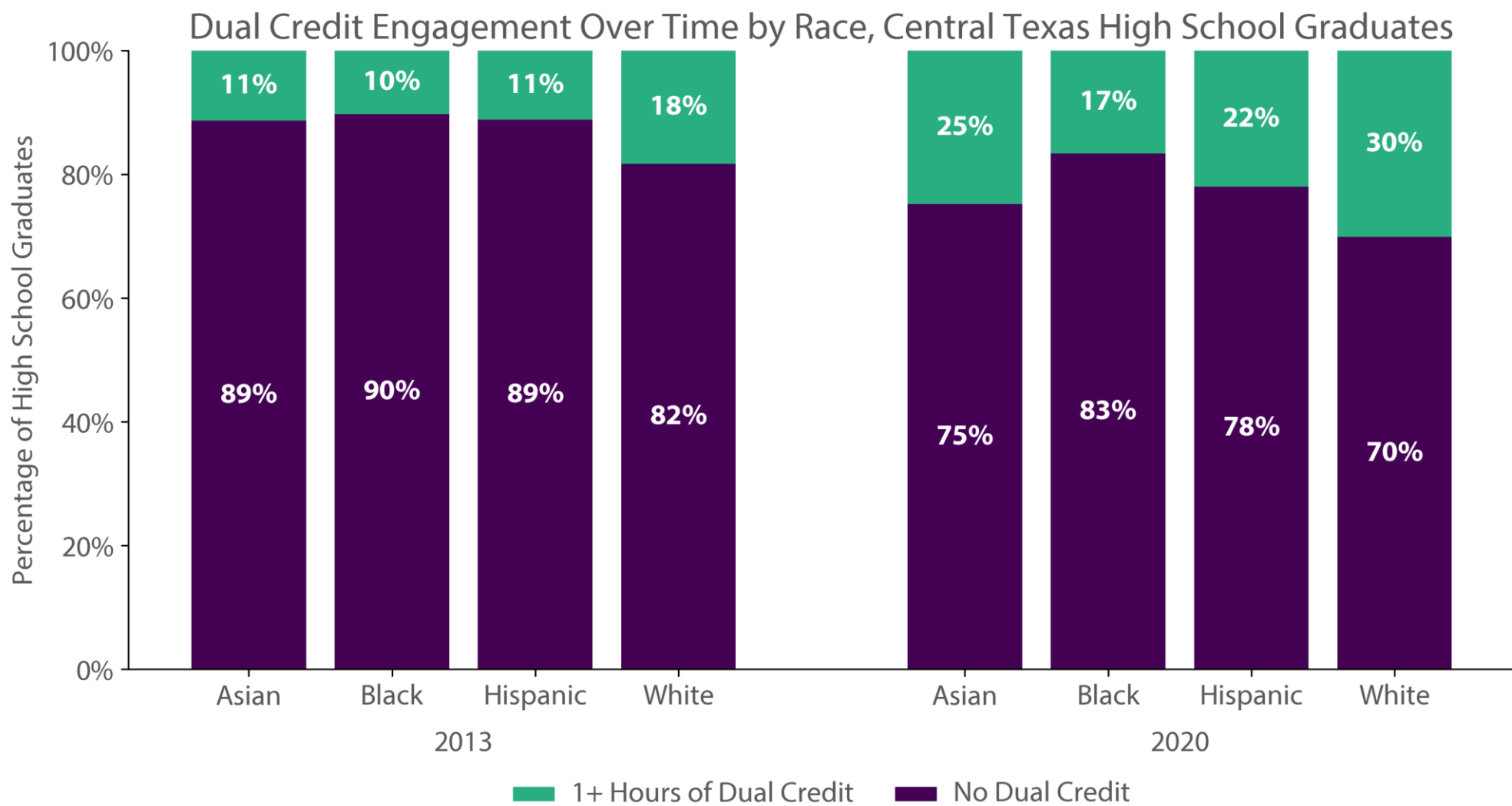
High School Graduate Dual Credit Engagement Over Time



STUDENTS EARNING ≥ 13 CREDIT HOURS STILL SMALL BUT GROWING



DISPARITIES BY RACE/ETHNICITY ARE GROWING





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Thinking Time

Do the trends in dual credit engagement align with your experience or understanding?

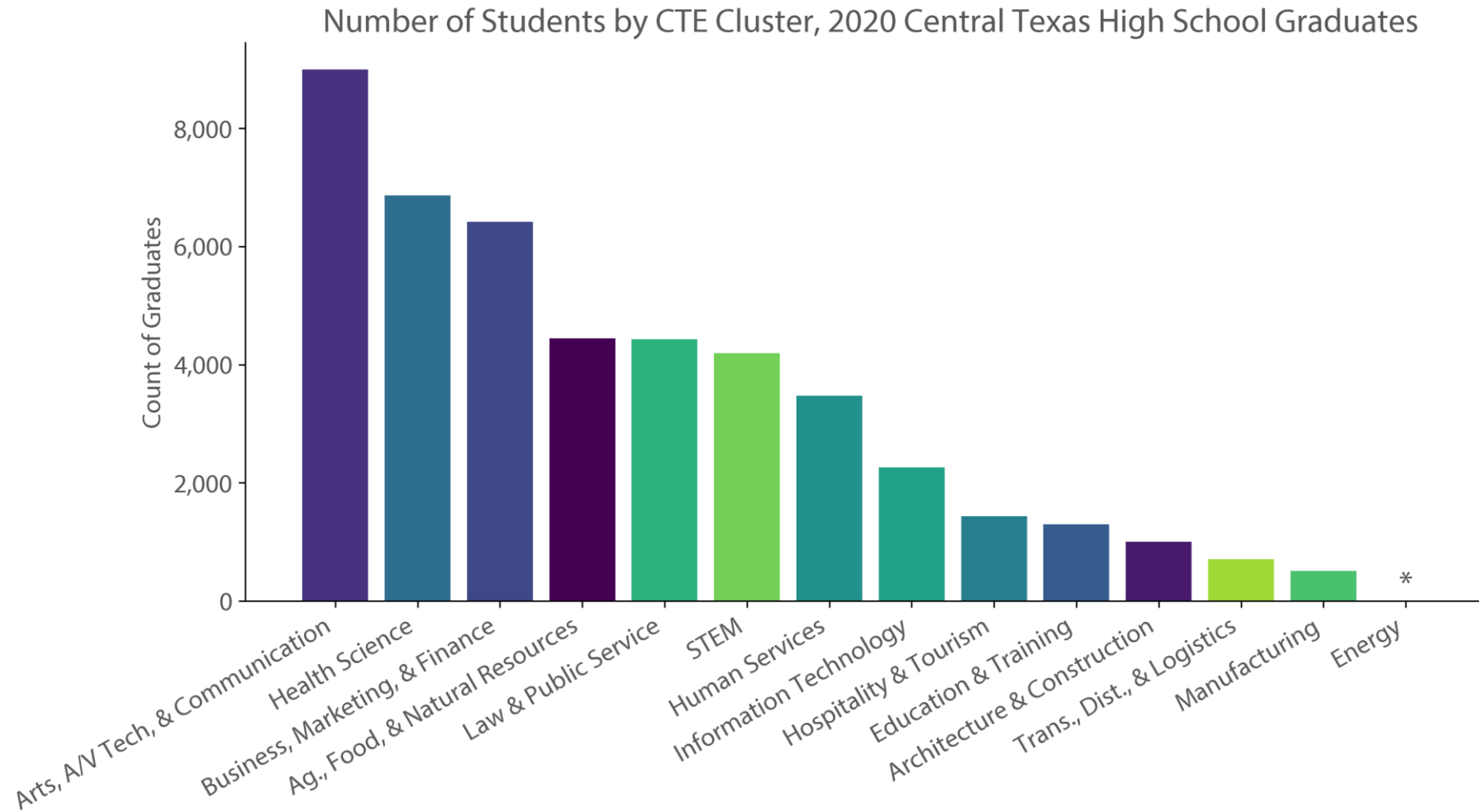


CAREER AND TECHNICAL EDUCATION (CTE) DEFINITIONS

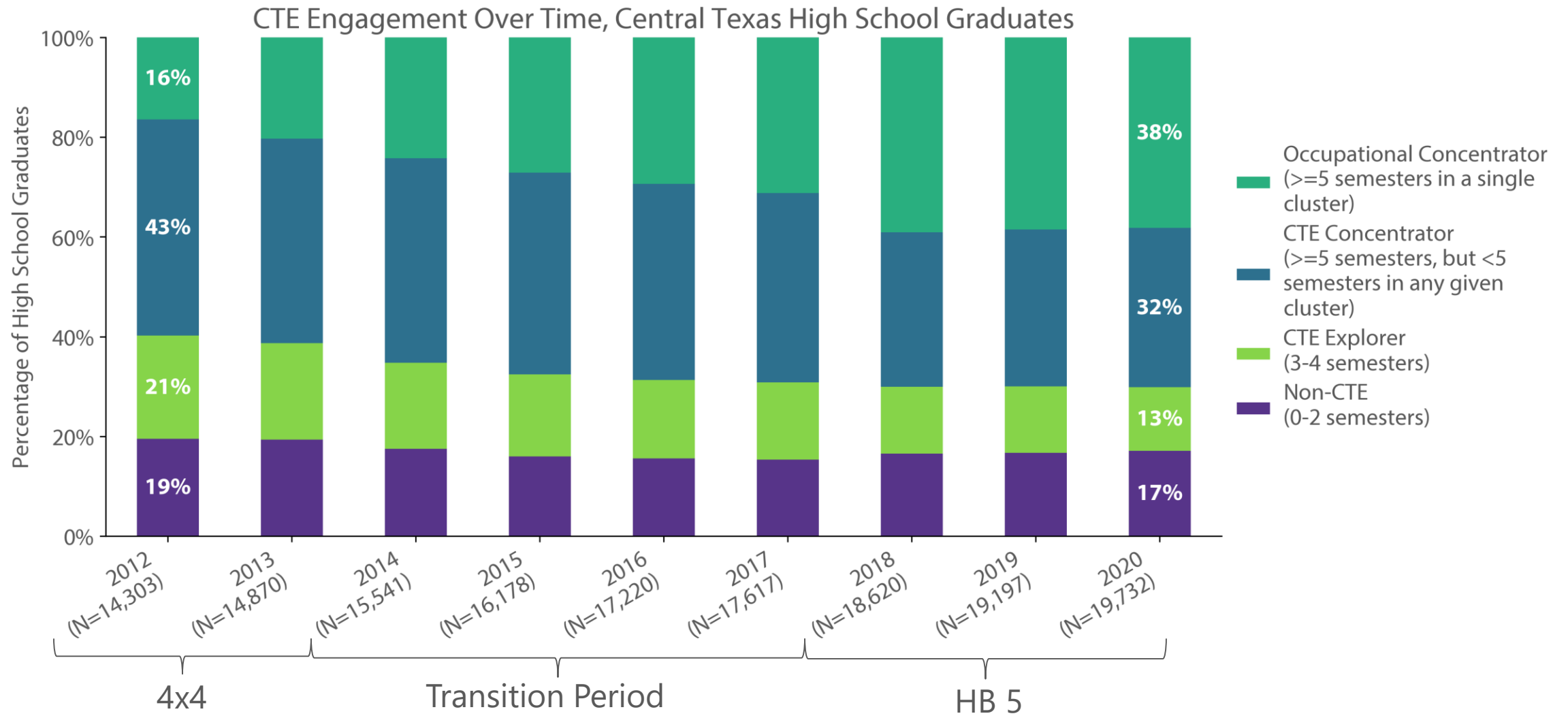
- Career and Technical Education (CTE) Cluster
 - Fourteen TEA-Defined groupings of CTE courses
- CTE Levels of Engagement (E3 Alliance definition)
 - Non-CTE: Student completed 0-2 semesters in CTE
 - CTE Explorer: Student completed 3-4 semesters in CTE
 - CTE Concentrator: Student completed ≥ 5 semesters in CTE, but < 5 semesters in any given cluster
 - Occupational Concentrator: Student completed ≥ 5 semesters in a single cluster



COURSES IN ARTS, A/V TECH, & COMMUNICATION MOST FREQUENTLY TAKEN BY STUDENTS

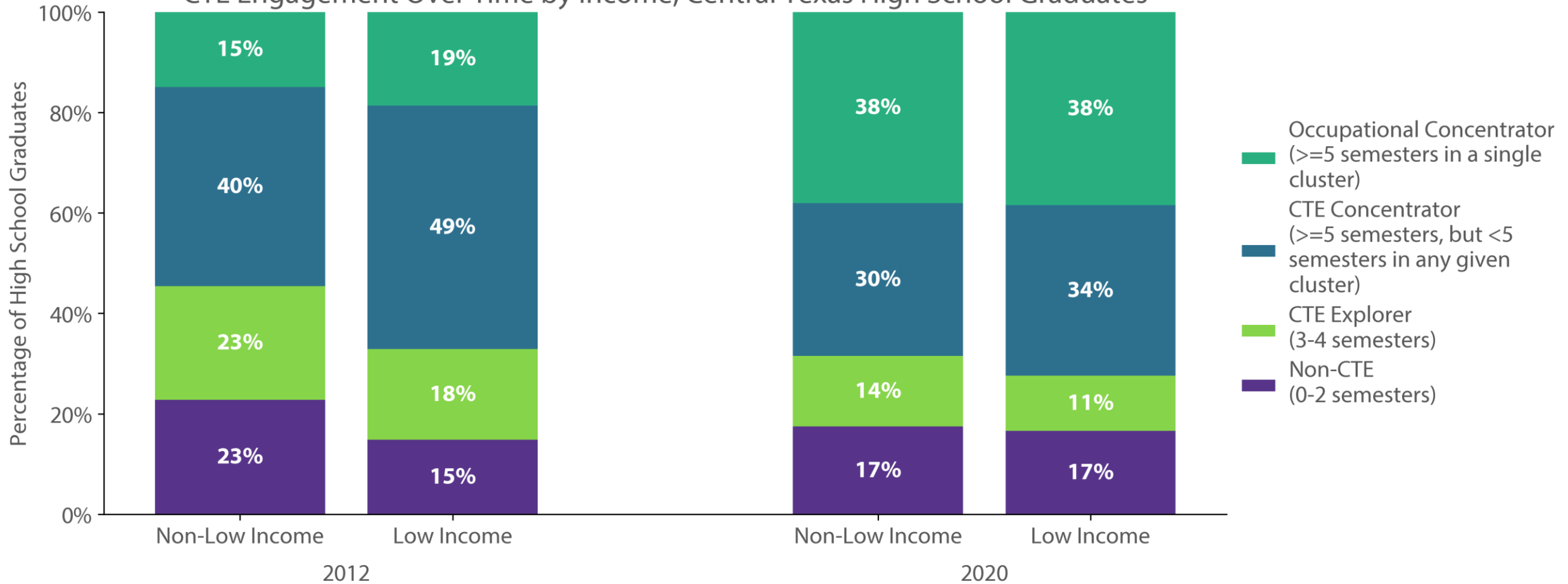


LARGEST CHANGE OVER TIME OCCURS IN THE TWO CONCENTRATOR LEVELS

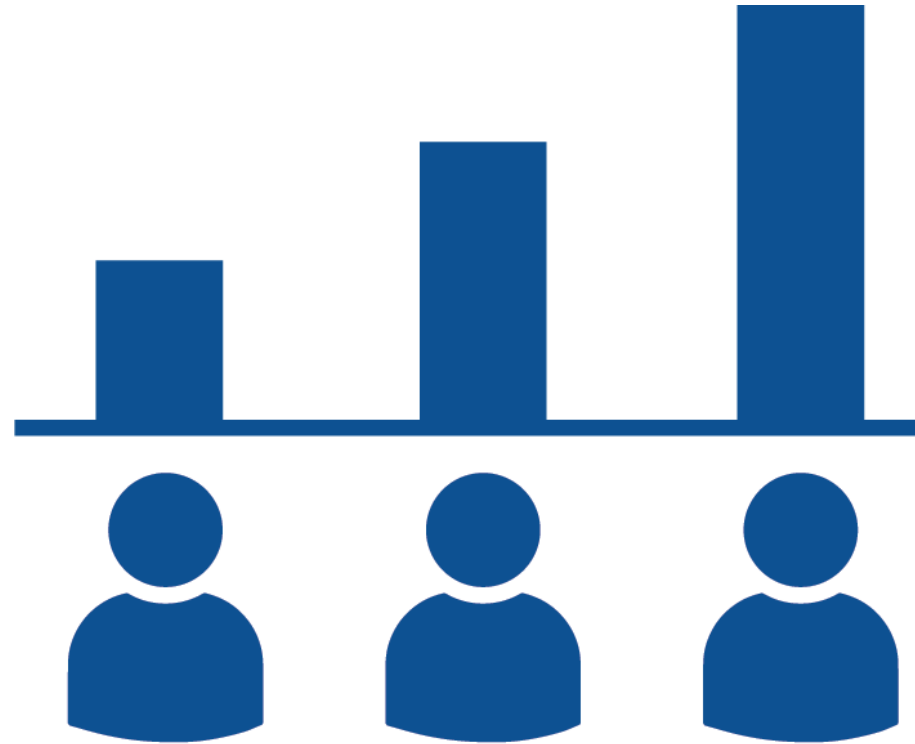


EQUITY GAP IN HIGHEST TWO LEVELS OF ENGAGEMENT HAS CLOSED BETWEEN 2012 AND 2020

CTE Engagement Over Time by Income, Central Texas High School Graduates



DATA TO ACTION



WHAT ARE THE CONNECTIONS?



THE ACHIEVEMENTS CORE DC SUBJECTS

Subject	Students	Low Income	Female	Asian	Black	Hispanic	White
COHORT	19,752	43%	50%	6%	7%	43%	40%
ANY DC	4,999	32%	58%	6%	5%	37%	48%
ANY CORE DC	4,857	32%	59%	6%	5%	37%	49%
ELA	3,238	33%	62%	5%	5%	38%	49%
Fine Arts	333	60%	61%	5%	12%	54%	25%
Math	1,489	31%	57%	10%	4%	36%	47%
Science	907	48%	57%	5%	7%	49%	37%
Social Studies	3,074	32%	60%	5%	5%	37%	50%
Spanish / Other	210	54%	62%	4%	7%	56%	30%
13+ Hours	2,066	33%	61%	5%	5%	37%	50%

	Disproportionately high representation
	Disproportionately low representation

THE ACHIEVEMENTS OCCUPATIONAL CONCENTRATOR CLUSTERS

Cluster	Students	Low Income	Female	Asian	Black	Hispanic	White
COHORT	19,752	43%	50%	6%	7%	43%	40%
Agriculture	1,072	42%	54%	1%	4%	36%	56%
Architecture & Construction	22	59%	*	*	*	59%	36%
Arts & AV	973	43%	33%	6%	7%	43%	40%
Business	577	33%	29%	7%	8%	31%	50%
Education	254	46%	91%	*	8%	53%	35%
Health Science	1,868	47%	79%	10%	9%	45%	32%
Hospitality	292	62%	56%	*	13%	54%	29%
Human Services	42	83%	79%	*	*	60%	36%
IT	88	40%	13%	9%	9%	45%	28%
Law & Public Service	467	59%	48%	1%	11%	55%	29%
Manufacturing	31	52%	*	*	*	55%	42%
STEM	1,728	28%	28%	17%	4%	32%	42%
Transportation	219	73%	5%	*	3%	71%	24%

	Disproportionately high representation
	Disproportionately low representation

* Masked due to small cell size (fewer than 5 students have this outcome)

THE ACHIEVEMENTS IBC CLUSTERS

CTE Cluster	Students	Low Income	Female	Asian	Black	Hispanic	White
COHORT	19,752	43%	50%	6%	7%	43%	40%
ANY IBC	2,066	31%	44%	10%	4%	34%	48%
Agriculture	194	48%	79%	****	5%	44%	46%
Architecture & Construction	105	43%	13%	*	6%	43%	46%
Arts & AV	603	21%	42%	14%	2%	26%	53%
Business	405	25%	30%	9%	7%	27%	53%
Education	23	**	**	*	*	65%	26%
Health Science	333	27%	81%	19%	7%	32%	39%
Hospitality	82	48%	52%	*	7%	51%	39%
IT	9	*	*	*	*	*	*
Manufacturing	288	28%	17%	9%	2%	33%	53%
Public Safety	43	53%	40%	*	*	58%	33%
Transportation	89	64%	7%	*	*	63%	33%

	Disproportionately high representation
	Disproportionately low representation

* Masked due to small cell size (fewer than 5 students have this outcome)

** Masked due to large cell size (all but 5 or fewer students have this outcome)

**** Masked in order to prevent imputation



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Thinking Time

What do you think might be driving
disproportionalities in these
achievements?



THE PROCESS





Predictors for Postsecondary

Top “Yes or No” Predictors:

1. Certified Nurse Aide/Assistant IBC
2. Taking 13+ DC* Hours
3. Taking 7+ DC* Hours
4. Taking 1+ Core DC ELA Class
5. Taking 1+ Core DC Fine Arts Class

*Core DC exhibits even greater strength

CTE Cluster:

- Health Science Occupational Concentrator (OC), STEM OC, Taking Any 5 CTE Classes, OC in Any Cluster, Education OC, Business OC

Dual Credit:

- 13+ Core DC Hours, 13+ DC Hours, 7+ Core DC Hours, 7+ DC Hours, Core ELA, Core Fine Arts, Core Social Studies, Core Science, Core Spanish/Other, Core Math

IBC Category:

- Health Science, Business, Manufacturing

Individual IBC:

- Certified Nurse Aide/Assistant, Clinical Medical Assistant, Autodesk Certified Professional, QuickBooks Certified User, Microsoft Office Specialist Excel Certiport, Microsoft Office Specialist Word Certiport, Adobe Certified Associate Photoshop Certiport
- Practicum in Health Science, Pharmacology, Pathophysiology, and Engineering Level 4 CTE/DC Courses
- Participating in an Early College High School Program





Predictors for Postsecondary

Top “+1” Predictors:

1. Taking Core DC Fine Arts Classes
2. Taking Core DC Math Classes
3. Taking Core DC Science Classes
4. Taking Core DC Spanish/Other Classes
5. Taking Core DC ELA Classes

CTE Cluster:

- Health Science Occupational Concentrator (OC), STEM OC, Taking Any 5 CTE Classes, OC in Any Cluster, Education OC, Business OC

Dual Credit:

- 13+ Core DC Hours, 13+ DC Hours, 7+ Core DC Hours, 7+ DC Hours, Core ELA, Core Fine Arts, Core Social Studies, Core Science, Core Spanish/Other, Core Math

IBC Category:

- Health Science, Business, Manufacturing

Individual IBC:

- Certified Nurse Aide/Assistant, Clinical Medical Assistant, Autodesk Certified Professional, QuickBooks Certified User, Microsoft Office Specialist Excel Certiport, Microsoft Office Specialist Word Certiport, Adobe Certified Associate Photoshop Certiport
- Practicum in Health Science, Pharmacology, Pathophysiology, and Engineering Level 4 CTE/DC Courses
- Participating in an Early College High School Program



THE PATHWAYS



Protective factors from earning less than \$15/hr

- Dual Credit: 13+ Core DC Hours, 13+ DC Hours, 7+ Core DC Hours, 7+ DC Hours, Core Fine Arts, Core Social Studies, Core ELA, Core Science, Core Math, Core Spanish/Other
- Participating in an Early College High School Program
- Taking 5+ Semesters of STEM CTE Courses
- Level 4 Practicum in Health Science CTE/DC Courses
- Level 4 Engineering CTE/DC Courses





Predictors for earning less than \$15/hr



CTE Occupational Concentrator:

- Transportation, Hospitality

IBC Category:

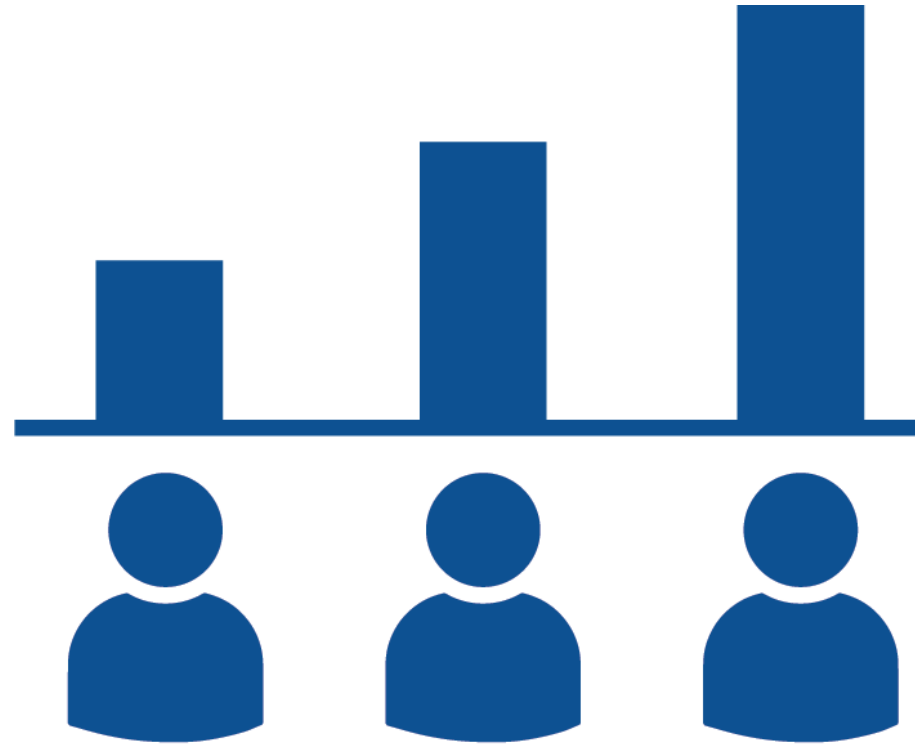
- Transportation, Hospitality, Agriculture

Individual IBC:

- ServSafe Manager National Restaurant Association

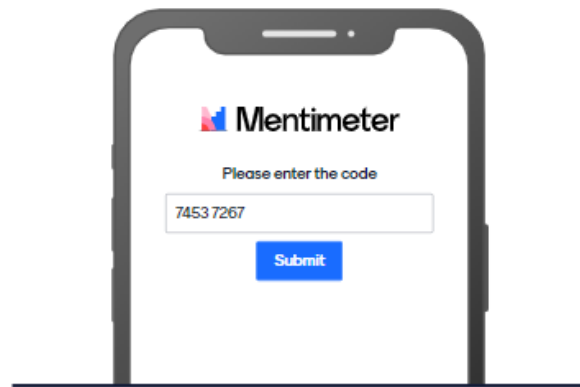


DATA TO ACTION

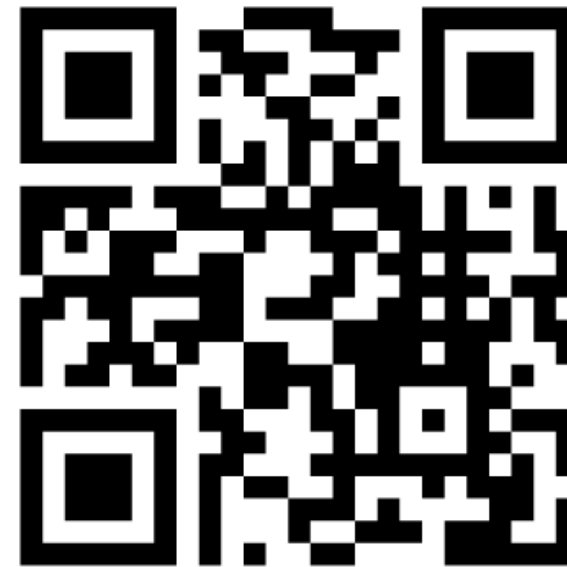


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