

February 2024

## **H.B. 1388 2024 Analysis**

**Examining Career and Technical Education in  
Mississippi's K-12 System**



Prepared by Mississippi State University's NSPARC

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**The following report was created to fulfill the requirements described  
in H.B. 1388 and was commissioned by AccelerateMS.**

### RECOMMENDED CITATION:

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NSPARC, 2024. H.B. 1388 Analysis: Examining Career and Technical Education in Mississippi's K-12 System. NSPARC, Mississippi State University.

### ABOUT MISSISSIPPI'S SLDS

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Mississippi's Statewide Longitudinal Data System (SLDS) is one of the most comprehensive systems in the country and includes administrative records from more than 25 education, workforce, and human service agencies in the state. The SLDS allows for the alignment of multiple sources of de-identified administrative data over time to evaluate educational or workforce strategies in terms of real outcomes, such as entrance into employment, wages, and skill gains.

### PREPARED BY MISSISSIPPI STATE UNIVERSITY'S NSPARC

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NSPARC, the National Strategic Planning & Analysis Research Center at Mississippi State University, is a trusted source for research addressing critical challenges faced by government, economic and workforce development professionals, educational institutions, nonprofits, and the private sector. Drawing on a team of social scientists, economists, data engineers, data analysts, and machine learning experts, NSPARC facilitates informed decision-making.

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For more information, contact NSPARC at [nsparc@nsparc.msstate.edu](mailto:nsparc@nsparc.msstate.edu) or 662-325-9242.

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# H.B. 1388 2024 Analysis

## Examining Career and Technical Education in Mississippi's K-12 System

February 2024

### EXECUTIVE SUMMARY

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This report was commissioned by AccelerateMS to fulfill the requirements set forth by House Bill 1388 (HB1388) which seeks to align Mississippi Public K-12 career and technical education (CTE) clusters with postsecondary credential programs, employer demand, and occupations which provide family-sustaining wages.

Enacted on March 23, 2022, HB1388 requires an annual study be conducted examining postsecondary and workforce outcomes of students enrolled in CTE clusters as part of their high school education. As the first annual study was conducted in 2023, this report presents findings of the second annual study.

This report has two primary objectives: (1) to provide information pertaining to secondary education outcomes of students enrolled in K-12 CTE in Academic Year (AY) 2017 through AY 2021; and (2) to provide information pertaining to postsecondary and employment outcomes of K-12 CTE graduates in AY 2017 through AY 2021.

Data for this report were contributed to Mississippi's State Longitudinal Data System (SLDS) by the Mississippi Department of Education (MDE), the Mississippi Community College Board (MCCB), the Institutions of Higher Learning (IHL), and the Mississippi Department of Employment Security (MDES).

Two groups of Mississippi Public K-12 students are included in this report: (1) *CTE Participants* and (2) *CTE Concentrators*. CTE Participants include all K-12 students who complete a CTE course *regardless of level*, while CTE Concentrators include only K-12 students who complete the more advanced Level 2 courses.

### SUMMARY OF RESULTS

**K-12 CTE Enrollment.** Approximately 27,000 students enrolled in K-12 CTE programs annually between AY 2017 and AY 2021. Over the study period, the following enrollment trends were observed:

- K-12 CTE Participant enrollment (i.e., the total number of students enrolled in CTE courses) decreased by 0.9% from AY 2017 to AY 2021.
  - K-12 CTE Participant enrollment initially increased from 26,781 in AY 2017 to 28,231 in AY 2020 before decreasing to 26,527 in AY 2021.
- K-12 CTE Concentrator enrollment (i.e., the total number of students enrolled in a Level 2 CTE course) decreased by 0.2% from AY 2017 to AY 2021.
  - K-12 CTE Concentrator enrollment initially increased from 9,838 in AY 2017 to 10,036 in AY 2020 before decreasing to 9,816 in AY 2021.
- The following K-12 CTE clusters had the highest average enrollment:
  - (1) Health Science (5,371 students)
  - (2) Agriculture, Food, and Natural Resources (4,562 students)
  - (3) Architecture and Construction (2,451 students)
  - (4) Business, Marketing, and Finance (2,308 students)
  - (5) Manufacturing (2,006 students)

**K-12 CTE Graduation.** On average, approximately 12,700 K-12 CTE Participants graduated with a traditional diploma annually between AY 2017 and AY 2021. Over the study period, the following graduation trends were observed:

- K-12 CTE Participant graduates increased by 0.7% from AY 2017 to AY 2021.
  - K-12 CTE Participant graduates initially increased from 12,532 in AY 2017 to 13,134 in AY 2020 before decreasing to 12,616 in AY 2021.
- K-12 CTE Participant dropouts decreased by approximately 18% from AY 2017 to AY 2021.
  - K-12 CTE Participant dropouts initially decreased from 488 in AY 2017 to 284 in AY 2020 before increasing to 401 in AY 2021.

**Community College.** Approximately 6,300 K-12 CTE graduates (~49%) annually enrolled in a Mississippi community college within one year of graduation. Of these community college bound graduates:

- Approximately 64% (~4,000 graduates) were retained into their second academic year.
- Approximately 8% (~500 graduates) declared majors that aligned with their K-12 CTE cluster.

**University.** Approximately 1,600 K-12 CTE graduates (~13%) annually enrolled in a Mississippi public university within one year of graduation. Of these public university bound graduates:

- Nearly 75% (~1,200 graduates) were retained into their second academic year.
- Approximately 25% (~400 graduates) declared majors that aligned with their K-12 CTE cluster.

**Workforce.** On average, approximately 4,800 K-12 CTE graduates (~38%) did not enroll in postsecondary education in Mississippi community colleges and public universities. Of these K-12 CTE graduates:

- Approximately 67% (~3,200 graduates) entered Mississippi's workforce and secured employment within one year of graduation.
- Approximately 25% (~800 graduates) were employed in Mississippi industries that aligned with their K-12 CTE cluster.
- On average, employed K-12 CTE graduates earned approximately \$12,500 in their first year of employment after graduation.

**Public Assistance.** In the year after graduation, approximately 1,300 K-12 CTE graduates who did not enroll in postsecondary education (~27%) annually received public assistance or unemployment insurance (UI) benefits. This includes:

- 1,148 graduates (~24%) received Supplemental Nutritional Aid Program (SNAP) benefits.
- 14 graduates (~0.3%) received Temporary Aid for Needy Families (TANF) benefits.
- 305 graduates (~6%) received unemployment insurance UI benefits.

# H.B. 1388 2024 Analysis

## Examining Career and Technical Education in Mississippi's K-12 System

February 2024

The following report was created to fulfill the requirements described in H.B. 1388 and was commissioned by AccelerateMS.

### OVERVIEW

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Enacted on March 23, 2022, House Bill 1388 (HB1388) charged AccelerateMS to align K-12 career and technical education (CTE) clusters with postsecondary credential programs, employer demand, and occupations that pay a family-sustaining wage. HB1388 requires an annual study be conducted examining postsecondary and workforce outcomes of students who enroll in CTE clusters as part of their high school education. As the first annual study was conducted in 2023, this report presents findings pertaining to the second annual study. AccelerateMS commissioned Mississippi State University's NSPARC to conduct a study of these outcomes from Academic Year (AY) 2017 through AY 2021.

This study addresses the following objectives:

**Objective 1: Measure High School Outcomes of K-12 CTE Students** – Provide information on the number of K-12 CTE students in the state, the types of CTE clusters in which these students enroll, and the number of these students who have prepared for continuing education by earning early postsecondary credit through Dual Enrollment.

**Objective 2: Measure Postsecondary and Employment Outcomes of K-12 CTE Students** – Determine the extent to which K-12 CTE students continue to follow their CTE cluster after high school. For students who graduate and continue to postsecondary education, this study examines if their declared major aligns with their CTE cluster and measures student retention rates. For students who enter the workforce after graduating or dropping out of high school, this study examines if their industry of employment aligns with their CTE cluster and measure their earnings. For students who are not enrolled in postsecondary education or employed, this analysis assesses alternative outcomes, such as whether the graduate has received public assistance or unemployment benefits.

## DATA SOURCES

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Data for this study came from Mississippi's State Longitudinal Data System (SLDS), which includes administrative records from more than 25 state agencies. Data from the following SLDS data contributors were used:

**Mississippi Department of Education** – Data from Mississippi's public schools are contributed to the SLDS by the Mississippi Department of Education (MDE). These data include information on enrollment, school, grade, course, and graduation.

**Mississippi Department of Employment Security** – Employer wage records are contributed to the SLDS by the Mississippi Department of Employment Security (MDES). Employer wage records are collected from Mississippi employers that participate in the state's covered employment system. Data fields include information on quarterly earnings, company of employment, industry of employment, and county location of employer.

**Mississippi Community Colleges** – Data on community college graduates are contributed to the SLDS by Mississippi's 15 community colleges and the Mississippi Community College Board (MCCB). These data include information on enrollment, county of residence, academic major, and graduation.

**Mississippi Public Universities** – Data on 4-year public university graduates are contributed to the SLDS by Mississippi's eight public universities and the Institutions for Higher Learning (IHL). These data include information on enrollment, county of residence, academic major, and graduation.

## METHODOLOGY

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Definitions for CTE Participants and CTE Concentrators were provided by MDE. Students are grouped according to the level of CTE courses completed: MDE categorizes courses into less advanced Level 1 courses and more advanced Level 2 courses. All students who complete a CTE course -regardless of the level- are considered to be CTE Participants, whereas students who complete the more advanced Level 2 courses are considered to be CTE Concentrators. For this analysis, MDE provided a list of courses that are categorized as Level 1 and Level 2.

The application of this definition allows readers to interpret the results pertaining to K-12 CTE Participants as results for all K-12 CTE students, whereas results for K-12 CTE Concentrators should be interpreted as results for students who have completed the more advanced Level 2 courses. It should be noted that a student can complete a Level 2 course without having previously completed a Level 1 course.



To account for any annual fluctuations in CTE enrollment, each of the measurements presented in this report are calculated with the most recent five years of data available. Using five years of data enables this report to present a comprehensive picture of students and student outcomes before, during, and, in some cases, after the academic interruptions caused by COVID-19. Results are presented for each year, and as a five-year average.

In accordance with SLDS Rules and Regulations, numeric values less than 10 are suppressed along with the accompanying percentages. These suppressed values are replaced with the “<10” symbol, and the accompanying percent is replaced with the “---” symbol. Additionally, information calculated using MDE data is suppressed if the percentage is either less than 5% or greater than 95%. Suppressed values are replaced with the “<5.00” and “>95.00” symbols, respectively, and the accompanying numeric values are replaced with the “--” symbol.

The primary analysis for this report is conducted at the state level. Each state-level result is also presented for each of Mississippi’s four Local Workforce Development Areas (LWDAs), and for each of the AccelerateMS Ecosystems. Figure 1 illustrates the geographic coverage of each LWDA, and Figure 2 illustrates the coverage of the eight ecosystems.

In addition to providing results in total and for each ecosystem, the statewide results are broken out by students’ K-12 CTE clusters<sup>1</sup> and demographic characteristics. More specifically, the measurements and calculations are disaggregated for each of the following CTE clusters and demographic characteristics, unless otherwise noted:

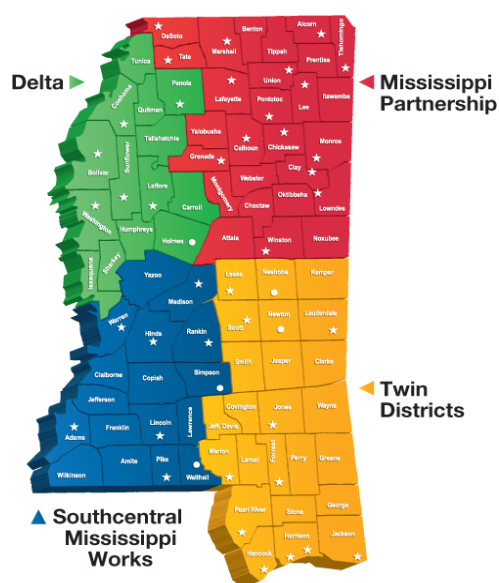


Figure 1: Mississippi's LWDAs

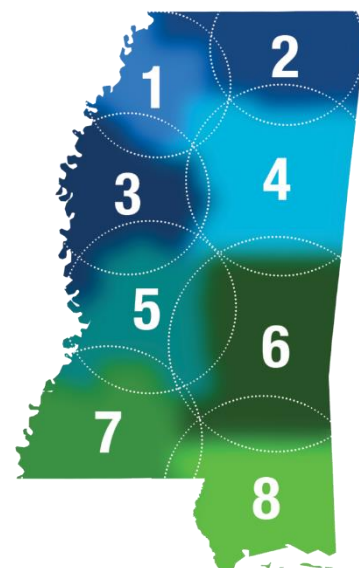


Figure 2: Mississippi's Ecosystems

<sup>1</sup> Mississippi operates 13 CTE clusters, while the national standard uses 16 CTE clusters.



### *CTE Clusters*

1. Agriculture, Food, and Natural Resources
2. Architecture and Construction
3. Arts, A/V Technology, and Communications
4. Business, Marketing, and Finance
5. Education and Training
6. Health Science
7. Hospitality and Tourism
8. Human Services
9. Information Technology
10. Law, Public Safety, Corrections, and Security
11. Manufacturing
12. Science, Technology, Engineering, and Mathematics
13. Transportation, Distribution, and Logistics

### *Demographics – Gender:*

1. Male
2. Female

### *Demographics – Race:*

1. Black
2. White
3. Other

### *Demographics – Gender and Race:*

1. Black: Male and Female
2. White: Male and Female
3. Other: Male and Female

### *Demographics – Other:*

1. Economically Disadvantaged
2. Children with Disabilities
3. English learner
4. Homeless
5. High school graduate (calculated when appropriate)
6. High school dropout (calculated when appropriate)

Crosswalks used to measure Postsecondary CTE Cluster alignment were provided by AccelerateMS, in coordination with the Mississippi Community College Board and the Mississippi Institutions for Higher Learning. As a result of updates to the Mississippi Community College Board crosswalk, values pertaining to K-12 CTE alignment with community college major differ from those presented in the HB1388 K-12 2023 Analysis report. Furthermore, though public university majors align with the K-12 CTE Education and Training cluster, there are no community college majors which align with the K-12 CTE Education and Training cluster.

# RESEARCH ACTIVITIES FOR OBJECTIVE 1: HIGH SCHOOL OUTCOMES OF K-12 CTE STUDENTS

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## ACTIVITY 1: MEASURE THE NUMBER OF CTE PARTICIPANTS AND CTE CONCENTRATORS IN K-12 SCHOOLS

The following SLDS data were used:

**MDE Data** – Students enrolled in AY 2016-2017, AY 2017-2018, AY 2018-2019, AY 2019-2020, and AY 2020-2021.

The following indicators were constructed:

**CTE Participants** – The number of students enrolled in at least one (1) CTE course.

**CTE Concentrators** – The number of students enrolled in a Level 2 CTE course.

Additional information pertaining to Grade 9-12 CTE program enrollment was provided from the MDE Mississippi Student Information System (MSIS) (see Appendix A). The following indicator was provided:

**Career and Technical Education Program Enrollment** – The unduplicated number of students enrolled in Grade 9 – 12 CTE programs and stand-alone courses in AY 2023-2024. This indicator is broken down by CTE program/course and grade level.

## ACTIVITY 2: MEASURE THE HIGH SCHOOL OUTCOMES FOR CTE STUDENTS

The following SLDS data were used:

**MDE Data** – The number of CTE students who graduated with a traditional diploma or who dropped out in AY 2016-2017, AY 2017-2018, AY 2018-2019, AY 2019-2020, and AY 2020-2021.

Each indicator is presented separately for CTE Participants and Concentrators who graduated with a traditional diploma, as well as for CTE students who dropped out.

The following indicators were constructed:

**CTE Graduates** – The number of CTE students who graduated from a K-12 school with a traditional diploma.

**CTE Dropouts** – The number of CTE students who dropped out from a K-12 school before graduation.

**Grade of First CTE Enrollment** – A frequency tabulation presenting the grade (9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup>) in which a CTE student first enrolled in a CTE course.

**CTE Dual Credit** – The number of CTE students who graduated from a K-12 school after completing a CTE Dual Credit / Dual Enrollment academic program.

**Non-CTE Dual Credit** – The number of CTE students who graduated from a K-12 school after completing a Non-CTE Dual Credit / Dual Enrollment academic program.

**Work-Based Learning** – The number of CTE students who graduated from a K-12 school after completing a Career Pathway Experience (course code 990001 and 990004) prior to AY 2020-2021 or Work-Based Learning (course codes 9995010 and 995011) for AY 2020-2021 and after.

Additional information pertaining to national credential attainment was provided by the Mississippi State University Research and Curriculum Unit (see Appendix B). The following indicators were provided:

**National Credential Testing** – The number of CTE students who tested for a national credential in AY 2021-2022. This indicator is broken down by type of national credential.

**National Credential Attainment** – The number and percentage of CTE students who passed a national credential test in AY 2021-2022. This indicator is broken down by type of national credential.

## ACTIVITIES TO ACHIEVE OBJECTIVE 2: POSTSECONDARY AND EMPLOYMENT OUTCOMES OF K-12 CTE STUDENTS

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### ACTIVITY 1: MEASURE THE POSTSECONDARY EDUCATION OUTCOMES FOR CTE STUDENTS AND DETERMINE IF THEIR POSTSECONDARY EDUCATION ALIGNS WITH THEIR K-12 CTE CLUSTER.

The following SLDS data were used:

**MDE Data** – Students who graduated with a traditional diploma in AY 2016-2017, AY 2017-2018, AY 2018-2019, AY 2019-2020, and AY 2020-2021.

**Mississippi Community College Data** – Students enrolled in AY 2017-2018, AY 2018-2019, AY 2019-2020, AY 2020-2021, AY 2021-2022. and AY 2022-2023.

**Mississippi Public University Data** – Students enrolled in AY 2017-2018, AY 2018-2019, AY 2019-2020, AY 2020-2021, AY 2021-2022. and AY 2022-2023.

Each indicator is presented separately for CTE Participants and Concentrators who graduated with a traditional diploma and who enrolled in a postsecondary institution within one year of graduation.

The following indicators were constructed:

***Enrollment in a Mississippi Community College*** – The number of graduates who enrolled in a Mississippi Community College within one year of K-12 graduation. In addition to the typical breakdown by CTE cluster that is provided for all indicators, this indicator is also broken out by students' declared majors.

***Enrollment in a Mississippi Public University*** – The number of graduates who enrolled in a Mississippi Public University within one year of K-12 graduation. In addition to the typical breakdown by CTE cluster that is provided for all indicators, this indicator is also broken out by the students' declared majors.

***Retention in a Mississippi Community College*** – The number of graduates who enrolled in a Mississippi Public Community College and who continued to be enrolled in the subsequent Fall semester of the second academic year.

***Retention in a Mississippi Public University*** – The number of graduates who enrolled in a Mississippi Public University and who continued to be enrolled in the subsequent Fall semester of the second academic year.

***Community College CTE Cluster Alignment*** – The number of graduates enrolled in a Mississippi Community Colleges and whose declared major aligns with their K-12 CTE cluster. This alignment is determined by comparing the enrolled graduates' declared majors to their K-12 CTE cluster. A crosswalk of matching clusters and majors is provided in Appendix C. This crosswalk was provided by AccelerateMS, in coordination with the Mississippi Community College Board.

***University CTE Cluster Alignment*** – The number of graduates enrolled in a Mississippi Public University whose declared major aligns with their K-12 CTE cluster. This alignment is determined by comparing the enrolled graduates' declared majors to their K-12 CTE cluster. A crosswalk of matching clusters and majors is provided in Appendix C. This crosswalk was provided by AccelerateMS, in coordination with the Mississippi Institutions for Higher Learning.

## **ACTIVITY 2: MEASURE THE WORKFORCE OUTCOMES FOR CTE STUDENTS AND DETERMINE IF THEIR INDUSTRY OF EMPLOYMENT ALIGNS WITH THEIR K-12 CTE CLUSTER.**

The following SLDS data were used:

***MDE data*** – Students who graduated with a traditional diploma or dropped out in AY 2016-2017, AY 2017-2018, AY 2018-2019, AY 2019-2020, and AY 2020-2021.

***MDES data*** – Employment and wage records from Calendar Year (CY) 2017, CY 2018, CY 2019, CY 2020, CY 2021, and CY 2022.

Each indicator is presented separately for CTE Participants and Concentrators who graduated with a traditional diploma but who did not enroll in a postsecondary institution within one year of graduation.

The following indicators were constructed:

***Employment of CTE Graduates*** – The number of graduates employed within one year of graduation. Results will be presented in total, and by industry of employment.

***Average Annualized Earnings*** – The average annualized earnings of those employed within one year of graduation. Results are presented in total, and by industry of employment.

***Workforce CTE Cluster Alignment*** – The number of graduates employed in an industry that aligns with their K-12 CTE cluster. This alignment is determined by examining the North American Industry Classification (NAICS) codes reported by each graduate's employer, then comparing these industry codes to the graduate's K-12 CTE cluster. A crosswalk of matching clusters and industries is provided in Appendix D. This crosswalk was provided by AccelerateMS, in coordination with the Mississippi Department of Education and Mississippi State University's RCU.

***Receipt of Public Assistance*** – The number of graduates not enrolled in Mississippi public postsecondary education programs who received Supplemental Nutritional Aid Program (SNAP), Temporary Aid for Needy Families (TANF), or Unemployment Insurance (UI) benefits.

# RESULTS

**TABLE 1: ANNUAL K-12 CTE PARTICIPANTS;  
NUMBER OF STUDENTS ENROLLED IN AT LEAST ONE CTE COURSE**

	Year Student Enrolled in CTE Course					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>26,781</b>	<b>27,024</b>	<b>27,144</b>	<b>28,231</b>	<b>26,527</b>	<b>27,141</b>
<b>Gender</b>						
Female	13,069	13,546	13,812	14,379	13,547	13,671
Male	13,712	13,478	13,332	13,852	12,980	13,471
<b>Race</b>						
Black	12,969	12,991	12,813	12,807	11,883	12,693
White	12,588	12,714	12,888	13,681	12,916	12,957
Other	1,224	1,319	1,443	1,743	1,728	1,491
<b>Race &amp; Gender</b>						
Black, Female	6,926	7,202	7,170	7,157	6,663	7,024
Black, Male	6,043	5,789	5,643	5,650	5,220	5,669
White, Female	5,565	5,699	5,932	6,347	6,006	5,910
White, Male	7,023	7,015	6,956	7,334	6,910	7,048
Other, Female	578	645	710	875	878	737
Other, Male	646	674	733	868	850	754
<b>Other Demographics</b>						
1. Economically Disadvantaged	16,357	16,768	17,035	18,061	17,779	17,200
2. Children with Disabilities	2,483	2,293	2,198	2,299	2,082	2,271
3. English learner	328	369	380	493	447	403
4. Homeless	524	528	389	407	321	434
<b>Ecosystem of School</b>						
Ecosystem 1	968	1,058	1,030	1,001	962	1,004
Ecosystem 2	4,392	4,419	4,513	4,688	4,370	4,476
Ecosystem 3	2,033	1,824	1,959	1,675	1,566	1,811
Ecosystem 4	3,080	3,065	3,202	3,548	3,354	3,250
Ecosystem 5	4,154	4,276	4,412	4,921	4,490	4,451
Ecosystem 6	3,872	3,933	3,835	4,000	4,018	3,932
Ecosystem 7	2,215	2,275	2,110	2,145	2,077	2,164
Ecosystem 8	6,067	6,174	6,083	6,253	5,690	6,053
<b>WIOA Region of School</b>						
Delta	3,001	2,882	2,989	2,676	2,528	2,815
MS Partnership	7,472	7,484	7,715	8,236	7,724	7,726
South Central	6,369	6,551	6,522	7,066	6,567	6,615
Twin Districts	9,939	10,107	9,918	10,253	9,708	9,985
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	4,830	4,713	4,323	4,690	4,253	4,562
2. Architecture and Construction	2,508	2,481	2,516	2,487	2,263	2,451
3. Arts, A/V Technology, and Communications	976	1,139	1,328	1,427	1,276	1,229
4. Business, Marketing, and Finance	2,573	2,601	2,151	2,212	2,004	2,308
5. Education and Training	1,339	1,383	1,467	1,568	1,520	1,455
6. Health Science	4,957	5,064	5,490	5,767	5,579	5,371
7. Hospitality and Tourism	1,797	1,889	1,861	1,900	1,868	1,863
8. Human Services	1,332	1,354	1,874	1,752	1,265	1,515
9. Information Technology	423	519	538	567	520	513
10. Law, Public Safety, Corrections, and Security	839	1,069	1,228	1,207	1,409	1,150

**Table 1 Continued on Next Page**

**Table 1 Continued**

11. Manufacturing	1,823	1,822	1,902	2,228	2,254	2,006
12. Science, Technology, Engineering, and Mathematics	1,662	1,504	1,435	1,487	1,359	1,489
13. Transportation, Distribution, and Logistics	2,280	2,097	1,711	1,671	1,527	1,857



**TABLE 2: TOTAL K-12 CTE CONCENTRATORS;  
NUMBER OF STUDENTS ENROLLED IN A LEVEL TWO CTE COURSE**

	Year Student Enrolled in Level Two CTE Course					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>9,838</b>	<b>10,183</b>	<b>9,509</b>	<b>10,036</b>	<b>9,816</b>	<b>9,876</b>
<b>Gender</b>						
Female	4,639	4,995	4,858	5,167	5,074	4,947
Male	5,199	5,188	4,651	4,869	4,742	4,930
<b>Race</b>						
Black	4,644	4,751	4,521	4,666	4,632	4,643
White	4,780	4,976	4,537	4,802	4,566	4,732
Other	414	456	451	568	618	501
<b>Race &amp; Gender</b>						
Black, Female	2,469	2,623	2,610	2,664	2,626	2,598
Black, Male	2,175	2,128	1,911	2,002	2,006	2,044
White, Female	1,991	2,153	2,023	2,221	2,122	2,102
White, Male	2,789	2,823	2,514	2,581	2,444	2,630
Other, Female	179	219	225	282	326	246
Other, Male	235	237	226	286	292	255
<b>Other Demographics</b>						
1. Economically Disadvantaged	5,901	6,240	6,031	6,527	6,728	6,285
2. Children with Disabilities	927	889	766	752	721	811
3. English learner	89	129	120	147	143	126
4. Homeless	210	205	126	151	128	164
<b>Ecosystem of School</b>						
Ecosystem 1	337	298	331	342	362	334
Ecosystem 2	1,675	1,688	1,416	1,494	1,384	1,531
Ecosystem 3	817	754	584	657	697	702
Ecosystem 4	1,041	1,059	956	1,104	1,129	1,058
Ecosystem 5	1,319	1,392	1,798	1,852	1,558	1,584
Ecosystem 6	1,418	1,598	1,300	1,325	1,524	1,433
Ecosystem 7	839	816	781	798	823	811
Ecosystem 8	2,392	2,578	2,343	2,464	2,339	2,423
<b>WIOA Region of School</b>						
Delta	1,154	1,052	915	999	1,059	1,036
MS Partnership	2,716	2,747	2,372	2,598	2,513	2,589
South Central	2,158	2,208	2,579	2,650	2,381	2,395
Twin Districts	3,810	4,176	3,643	3,789	3,863	3,856
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	1,998	2,045	1,226	1,304	1,094	1,533
2. Architecture and Construction	969	929	882	898	910	918
3. Arts, A/V Technology, and Communications	374	403	333	464	510	417
4. Business, Marketing, and Finance	895	930	782	724	746	815
5. Education and Training	418	509	489	588	586	518
6. Health Science	1,826	1,938	2,010	2,154	2,175	2,021
7. Hospitality and Tourism	589	595	639	603	654	616
8. Human Services	485	535	966	950	529	693
9. Information Technology	143	142	153	172	160	154
10. Law, Public Safety, Corrections, and Security	242	290	340	376	481	346
11. Manufacturing	649	670	644	765	902	726
12. Science, Technology, Engineering, and Mathematics	551	509	500	494	538	518
13. Transportation, Distribution, and Logistics	767	766	601	598	576	662

**TABLE 3: GRADUATING K-12 CTE PARTICIPANTS;  
NUMBER OF CTE PARTICIPANTS WHO GRADUATED FROM K-12 WITH TRADITIONAL DIPLOMA**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>12,532</b>	<b>12,859</b>	<b>12,473</b>	<b>13,134</b>	<b>12,616</b>	<b>12,723</b>
<b>Gender</b>						
Female	6,348	6,575	6,345	6,823	6,523	6,523
Male	6,184	6,284	6,128	6,311	6,093	6,200
<b>Race</b>						
Black	6,152	6,463	6,020	6,397	6,084	6,223
White	5,876	5,859	5,860	6,064	5,796	5,891
Other	504	537	593	673	736	609
<b>Race &amp; Gender</b>						
Black, Female	3,391	3,604	3,406	3,642	3,413	3,491
Black, Male	2,761	2,859	2,614	2,755	2,671	2,732
White, Female	2,730	2,718	2,650	2,844	2,721	2,733
White, Male	3,146	3,141	3,210	3,220	3,075	3,158
Other, Female	227	253	289	337	389	299
Other, Male	277	284	304	336	347	310
<b>Other Demographics</b>						
1. Economically Disadvantaged	2,449	2,885	3,227	3,859	4,649	3,414
2. Children with Disabilities	233	269	306	406	523	347
3. English learner	47	57	88	117	134	89
4. Homeless	85	105	88	114	130	104
<b>Ecosystem of School</b>						
Ecosystem 1	476	467	441	498	480	472
Ecosystem 2	2,187	2,163	2,184	2,278	2,071	2,177
Ecosystem 3	917	870	881	798	779	849
Ecosystem 4	1,428	1,414	1,412	1,618	1,477	1,470
Ecosystem 5	1,855	2,014	1,862	1,987	2,021	1,948
Ecosystem 6	1,777	1,837	1,807	1,851	1,791	1,813
Ecosystem 7	936	1,016	1,037	1,015	1,038	1,008
Ecosystem 8	2,956	3,078	2,849	3,089	2,959	2,986
<b>WIOA Region of School</b>						
Delta	1,393	1,337	1,322	1,296	1,259	1,321
MS Partnership	3,615	3,577	3,596	3,896	3,548	3,646
South Central	2,791	3,030	2,899	3,002	3,059	2,956
Twin Districts	4,733	4,915	4,656	4,940	4,750	4,799
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	2,330	2,485	2,283	2,437	2,315	2,370
2. Architecture and Construction	1,356	1,251	1,285	1,317	1,223	1,286
3. Arts, A/V Technology, and Communications	459	571	628	682	722	612
4. Business, Marketing, and Finance	1,902	1,798	1,430	1,349	1,213	1,538
5. Education and Training	658	784	737	795	796	754
6. Health Science	2,436	2,591	2,544	2,807	2,807	2,637
7. Hospitality and Tourism	931	909	912	1,059	951	952
8. Human Services	646	685	694	802	723	710
9. Information Technology	222	252	240	256	313	257
10. Law, Public Safety, Corrections, and Security	352	515	568	612	593	528
11. Manufacturing	866	849	954	1,034	1,049	950
12. Science, Technology, Engineering, and Mathematics	761	794	849	848	848	820
13. Transportation, Distribution, and Logistics	1,131	1,158	1,061	1,026	857	1,047

**TABLE 4: GRADUATING K-12 CTE CONCENTRATORS;  
NUMBER OF CTE CONCENTRATORS WHO GRADUATED FROM K-12 WITH TRADITIONAL DIPLOMA**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>7,866</b>	<b>8,395</b>	<b>8,177</b>	<b>8,308</b>	<b>8,254</b>	<b>8,200</b>
<b>Gender</b>						
Female	3,921	4,300	4,208	4,373	4,350	4,230
Male	3,945	4,095	3,969	3,935	3,904	3,970
<b>Race</b>						
Black	3,727	4,050	3,779	3,933	3,864	3,871
White	3,826	3,982	4,006	3,967	3,904	3,937
Other	313	363	392	408	486	392
<b>Race &amp; Gender</b>						
Black, Female	2,058	2,316	2,223	2,317	2,245	2,232
Black, Male	1,669	1,734	1,556	1,616	1,619	1,639
White, Female	1,726	1,809	1,786	1,846	1,834	1,800
White, Male	2,100	2,173	2,220	2,121	2,070	2,137
Other, Female	137	175	199	210	271	198
Other, Male	176	188	193	198	215	194
<b>Other Demographics</b>						
1. Economically Disadvantaged	1,550	1,894	2,084	2,438	3,058	2,205
2. Children with Disabilities	164	180	208	238	326	223
3. English learner	20	36	52	63	91	52
4. Homeless	54	64	57	72	85	66
<b>Ecosystem of School</b>						
Ecosystem 1	247	282	277	260	305	274
Ecosystem 2	1,264	1,355	1,351	1,269	1,096	1,267
Ecosystem 3	619	576	540	533	522	558
Ecosystem 4	848	890	822	948	950	892
Ecosystem 5	1,087	1,176	1,167	1,245	1,332	1,201
Ecosystem 6	1,122	1,195	1,239	1,186	1,150	1,178
Ecosystem 7	639	684	653	665	741	676
Ecosystem 8	2,040	2,237	2,128	2,202	2,158	2,153
<b>WIOA Region of School</b>						
Delta	866	858	817	793	827	832
MS Partnership	2,112	2,245	2,173	2,217	2,046	2,159
South Central	1,726	1,860	1,820	1,910	2,073	1,878
Twin Districts	3,162	3,432	3,367	3,388	3,308	3,331
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	1,300	1,354	1,219	1,057	948	1,176
2. Architecture and Construction	778	781	767	804	757	777
3. Arts, A/V Technology, and Communications	293	360	370	359	409	358
4. Business, Marketing, and Finance	888	870	799	714	650	784
5. Education and Training	367	416	470	507	520	456
6. Health Science	1,667	1,822	1,830	1,954	2,060	1,867
7. Hospitality and Tourism	520	544	548	577	537	545
8. Human Services	413	468	457	483	492	463
9. Information Technology	119	146	143	156	127	138
10. Law, Public Safety, Corrections, and Security	171	229	251	321	324	259
11. Manufacturing	479	523	625	638	703	594
12. Science, Technology, Engineering, and Mathematics	468	487	444	459	476	467
13. Transportation, Distribution, and Logistics	623	697	581	554	520	595

**TABLE 5: K-12 CTE PARTICIPANT DROPOUTS;  
NUMBER OF CTE PARTICIPANTS WHO DROPPED OUT FROM K-12 BEFORE GRADUATION**

	Year Student Dropped Out from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>488</b>	<b>434</b>	<b>385</b>	<b>284</b>	<b>401</b>	<b>398</b>
<b>Gender</b>						
Female	157	135	146	97	122	131
Male	331	299	239	187	279	267
<b>Race</b>						
Black	230	182	181	125	133	170
White	248	239	190	145	244	213
Other	10	13	14	14	24	15
<b>Race &amp; Gender</b>						
Black, Female	79	59	70	47	33	58
Black, Male	151	123	111	78	100	113
White, Female	77	73	73	47	79	70
White, Male	171	166	117	98	165	143
Other, Female	<10	<10	<10	<10	10	<10
Other, Male	<10	10	11	11	14	11
<b>Other Demographics</b>						
1. Economically Disadvantaged	102	113	112	89	168	117
2. Children with Disabilities	33	22	25	29	41	30
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	21	12	15	21	13	16
Ecosystem 2	105	107	84	50	108	91
Ecosystem 3	50	28	37	21	28	33
Ecosystem 4	56	43	38	47	54	48
Ecosystem 5	77	59	52	25	33	49
Ecosystem 6	69	69	61	52	58	62
Ecosystem 7	34	43	32	29	38	35
Ecosystem 8	76	73	66	39	69	65
<b>WIOA Region of School</b>						
Delta	71	40	52	42	41	49
MS Partnership	161	150	122	97	162	138
South Central	111	102	84	54	71	84
Twin Districts	145	142	127	91	127	126
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	135	126	118	93	145	123
2. Architecture and Construction	71	52	58	31	45	51
3. Arts, A/V Technology, and Communications	<10	<10	18	<10	11	10
4. Business, Marketing, and Finance	65	51	42	17	31	41
5. Education and Training	<10	13	11	11	18	12
6. Health Science	20	19	26	19	16	20
7. Hospitality and Tourism	32	27	24	15	21	24
8. Human Services	26	16	15	23	15	19
9. Information Technology	<10	<10	<10	<10	10	<10
10. Law, Public Safety, Corrections, and Security	23	19	24	11	26	21
11. Manufacturing	53	65	39	42	63	52
12. Science, Technology, Engineering, and Mathematics	15	15	11	15	23	16
13. Transportation, Distribution, and Logistics	76	71	48	34	40	54

**TABLE 6: K-12 CTE CONCENTRATOR DROPOUTS;  
NUMBER OF CTE CONCENTRATORS WHO DROPPED OUT FROM K-12 BEFORE GRADUATION**

	Year Student Dropped Out from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>115</b>	<b>94</b>	<b>74</b>	<b>59</b>	<b>83</b>	<b>85</b>
<b>Gender</b>						
Female	33	20	25	18	22	24
Male	82	74	49	41	61	61
<b>Race</b>						
Black	49	33	21	21	27	30
White	65	59	49	34	51	52
Other	<10	<10	<10	<10	<10	<10
<b>Race &amp; Gender</b>						
Black, Female	16	<10	<10	12	<10	10
Black, Male	33	28	14	<10	19	21
White, Female	17	14	17	<10	13	13
White, Male	48	45	32	28	38	38
Other, Female	<10	<10	<10	<10	<10	<10
Other, Male	<10	<10	<10	<10	<10	<10
<b>Other Demographics</b>						
1. Economically Disadvantaged	26	19	14	23	39	24
2. Children with Disabilities	<10	<10	<10	<10	<10	<10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	<10	<10	<10	<10	<10	<10
Ecosystem 2	23	25	24	12	25	22
Ecosystem 3	10	12	<10	<10	<10	<10
Ecosystem 4	11	<10	<10	<10	10	<10
Ecosystem 5	16	<10	<10	<10	10	<10
Ecosystem 6	22	18	15	11	13	16
Ecosystem 7	10	<10	<10	<10	<10	<10
Ecosystem 8	18	12	12	<10	12	12
<b>WIOA Region of School</b>						
Delta	15	14	<10	<10	<10	10
MS Partnership	34	32	31	20	35	30
South Central	26	18	<10	16	17	17
Twin Districts	40	30	27	18	25	28
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	42	32	29	21	18	28
2. Architecture and Construction	15	10	11	<10	13	11
3. Arts, A/V Technology, and Communications	<10	<10	<10	<10	<10	<10
4. Business, Marketing, and Finance	13	<10	<10	<10	<10	<10
5. Education and Training	<10	<10	<10	<10	<10	<10
6. Health Science	<10	<10	<10	<10	<10	<10
7. Hospitality and Tourism	<10	<10	<10	<10	<10	<10
8. Human Services	<10	<10	<10	<10	<10	<10
9. Information Technology	<10	<10	<10	<10	<10	<10
10. Law, Public Safety, Corrections, and Security	<10	<10	<10	<10	<10	<10
11. Manufacturing	<10	15	<10	<10	18	12
12. Science, Technology, Engineering, and Mathematics	<10	<10	<10	<10	<10	<10
13. Transportation, Distribution, and Logistics	16	13	<10	<10	<10	<10

**TABLE 7: GRADE OF FIRST K-12 CTE ENROLLMENT;  
FREQUENCY TABULATION OF THE GRADE CTE STUDENTS FIRST ENROLLED IN A K-12 CTE COURSE,  
MEASURED FOR STUDENTS WHO GRADUATED**

Grade of First Enrollment in any CTE Course	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
9th Grade	1,547	1,768	1,946	2,009	2,395	1,933
10th Grade	5,926	6,364	5,843	6,125	5,741	6,000
11th Grade	4,705	4,311	4,248	4,544	4,129	4,387
12th Grade	352	416	436	456	338	400

**TABLE 8: K-12 CTE PARTICIPANTS WHO GRADUATED WITH CTE DUAL CREDIT;  
NUMBER OF K-12 CTE PARTICIPANTS WHO GRADUATED AFTER COMPLETING A  
CTE DUAL CREDIT / DUAL ENROLLMENT ACADEMIC PROGRAM**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>202</b>	<b>343</b>	<b>298</b>	<b>509</b>	<b>613</b>	<b>393</b>
<b>Gender</b>						
Female	79	140	123	245	303	178
Male	123	203	175	264	310	215
<b>Race</b>						
Black	121	223	180	323	335	236
White	77	114	109	170	251	144
Other	<10	<10	<10	16	27	12
<b>Race &amp; Gender</b>						
Black, Female	57	112	90	187	198	129
Black, Male	64	111	90	136	137	108
White, Female	21	27	30	53	91	44
White, Male	56	87	79	117	160	100
Other, Female	<10	<10	<10	<10	14	<10
Other, Male	<10	<10	<10	11	13	<10
<b>Other Demographics</b>						
1. Economically Disadvantaged	25	69	79	171	181	105
2. Children with Disabilities	<10	11	<10	18	16	10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	17	<10	<10	21	25	14
Ecosystem 2	16	28	33	37	13	25
Ecosystem 3	<10	<10	<10	<10	<10	<10
Ecosystem 4	<10	<10	27	83	24	28
Ecosystem 5	124	207	139	244	396	222
Ecosystem 6	17	50	34	37	85	45
Ecosystem 7	13	27	17	20	18	19
Ecosystem 8	12	26	39	65	48	38
<b>WIOA Region of School</b>						
Delta	18	<10	<10	23	29	16
MS Partnership	18	32	60	120	37	53
South Central	137	234	156	264	414	241
Twin Districts	29	76	73	102	133	83
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	14	41	31	44	42	34
2. Architecture and Construction	15	20	34	46	48	33
3. Arts, A/V Technology, and Communications	12	32	15	51	85	39
4. Business, Marketing, and Finance	14	30	27	85	76	46
5. Education and Training	<10	37	12	<10	16	14
6. Health Science	22	39	62	92	149	73
7. Hospitality and Tourism	26	31	19	42	39	31
8. Human Services	17	29	33	95	63	47
9. Information Technology	13	23	28	42	15	24
10. Law, Public Safety, Corrections, and Security	<10	<10	<10	<10	<10	<10

**Table 8 Continued on Next Page**



**Table 8 Continued**

11. Manufacturing	42	70	46	73	99	66
12. Science, Technology, Engineering, and Mathematics	23	21	13	32	18	21
13. Transportation, Distribution, and Logistics	27	20	25	49	70	38

**TABLE 9: K-12 CTE CONCENTRATORS WHO GRADUATED WITH CTE DUAL CREDIT;  
NUMBER OF K-12 CTE CONCENTRATORS WHO GRADUATED AFTER COMPLETING A  
CTE DUAL CREDIT / DUAL ENROLLMENT ACADEMIC PROGRAM**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>77</b>	<b>144</b>	<b>155</b>	<b>306</b>	<b>444</b>	<b>225</b>
<b>Gender</b>						
Female	25	55	64	133	205	96
Male	52	89	91	173	239	129
<b>Race</b>						
Black	37	85	87	178	216	121
White	37	56	63	115	207	96
Other	<10	<10	<10	13	21	<10
<b>Race &amp; Gender</b>						
Black, Female	19	43	46	99	120	65
Black, Male	18	42	41	79	96	55
White, Female	<10	11	16	30	75	28
White, Male	31	45	47	85	132	68
Other, Female	<10	<10	<10	<10	10	<10
Other, Male	<10	<10	<10	<10	11	<10
<b>Other Demographics</b>						
1. Economically Disadvantaged	15	33	44	94	121	61
2. Children with Disabilities	<10	<10	<10	12	12	<10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	<10	<10	<10	12	13	<10
Ecosystem 2	13	19	22	21	11	17
Ecosystem 3	<10	<10	<10	<10	<10	<10
Ecosystem 4	<10	<10	13	35	10	12
Ecosystem 5	40	67	47	142	287	117
Ecosystem 6	<10	24	17	29	75	31
Ecosystem 7	10	19	13	18	15	15
Ecosystem 8	<10	13	34	47	31	25
<b>WIOA Region of School</b>						
Delta	<10	<10	<10	14	15	<10
MS Partnership	13	21	35	56	21	29
South Central	50	86	60	160	302	132
Twin Districts	10	37	51	76	106	56
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	<10	18	16	22	17	16
2. Architecture and Construction	<10	11	27	34	39	23
3. Arts, A/V Technology, and Communications	<10	17	10	36	69	27
4. Business, Marketing, and Finance	<10	19	14	30	34	20
5. Education and Training	<10	<10	<10	<10	12	<10
6. Health Science	<10	15	26	45	97	38
7. Hospitality and Tourism	10	11	10	30	20	16
8. Human Services	<10	13	<10	21	41	18
9. Information Technology	10	13	18	23	<10	14
10. Law, Public Safety, Corrections, and Security	<10	<10	<10	<10	<10	<10
11. Manufacturing	15	23	20	52	76	37
12. Science, Technology, Engineering, and Mathematics	<10	<10	<10	13	<10	<10
13. Transportation, Distribution, and Logistics	<10	<10	<10	17	45	14

**TABLE 10: K-12 CTE PARTICIPANTS WHO GRADUATED WITH NON-CTE DUAL CREDIT;  
NUMBER OF K-12 CTE PARTICIPANTS WHO GRADUATED AFTER COMPLETING A  
NON-CTE DUAL CREDIT / DUAL ENROLLMENT ACADEMIC PROGRAM**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>2,923</b>	<b>3,600</b>	<b>4,272</b>	<b>4,500</b>	<b>4,101</b>	<b>3,879</b>
<b>Gender</b>						
Female	1,829	2,267	2,705	2,918	2,670	2,478
Male	1,094	1,333	1,567	1,582	1,431	1,401
<b>Race</b>						
Black	964	1,395	1,826	1,719	1,510	1,483
White	1,834	2,046	2,244	2,537	2,330	2,198
Other	125	159	202	244	261	198
<b>Race &amp; Gender</b>						
Black, Female	666	943	1,275	1,227	1,085	1,039
Black, Male	298	452	551	492	425	444
White, Female	1,091	1,240	1,315	1,543	1,414	1,321
White, Male	743	806	929	994	916	878
Other, Female	72	84	115	148	171	118
Other, Male	53	75	87	96	90	80
<b>Other Demographics</b>						
1. Economically Disadvantaged	464	720	1,055	1,185	1,382	961
2. Children with Disabilities	13	20	42	36	39	30
3. English learner	<10	<10	15	20	23	14
4. Homeless	12	21	29	32	32	25
<b>Ecosystem of School</b>						
Ecosystem 1	103	146	190	190	160	158
Ecosystem 2	619	647	704	723	676	674
Ecosystem 3	132	179	257	179	192	188
Ecosystem 4	367	434	504	522	458	457
Ecosystem 5	374	494	729	727	623	589
Ecosystem 6	344	480	625	629	576	531
Ecosystem 7	159	205	250	307	278	240
Ecosystem 8	825	1,015	1,013	1,223	1,138	1,043
<b>WIOA Region of School</b>						
Delta	235	325	447	369	352	346
MS Partnership	986	1,081	1,208	1,245	1,134	1,131
South Central	533	699	979	1,034	901	829
Twin Districts	1,169	1,495	1,638	1,852	1,714	1,574
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	507	646	646	673	646	624
2. Architecture and Construction	176	193	279	255	233	227
3. Arts, A/V Technology, and Communications	101	142	214	278	219	191
4. Business, Marketing, and Finance	505	594	598	523	480	540
5. Education and Training	163	212	253	264	252	229
6. Health Science	979	1,213	1,406	1,553	1,501	1,330
7. Hospitality and Tourism	186	194	263	329	271	249
8. Human Services	87	136	222	226	184	171
9. Information Technology	55	64	70	71	106	73
10. Law, Public Safety, Corrections, and Security	57	115	152	166	153	129
11. Manufacturing	91	95	138	147	118	118
12. Science, Technology, Engineering, and Mathematics	213	284	355	359	333	309
13. Transportation, Distribution, and Logistics	106	139	154	181	131	142

**TABLE 11: K-12 CTE CONCENTRATORS WHO GRADUATED WITH NON-CTE DUAL CREDIT;  
NUMBER OF K-12 CTE CONCENTRATORS WHO GRADUATED AFTER COMPLETING A  
NON-CTE DUAL CREDIT / DUAL ENROLLMENT ACADEMIC PROGRAM**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>1,870</b>	<b>2,423</b>	<b>2,849</b>	<b>2,990</b>	<b>2,882</b>	<b>2,603</b>
<b>Gender</b>						
Female	1,187	1,566	1,853	1,982	1,930	1,704
Male	683	857	996	1,008	952	899
<b>Race</b>						
Black	651	939	1,207	1,158	1,087	1,008
White	1,135	1,365	1,497	1,675	1,601	1,455
Other	84	119	145	157	194	140
<b>Race &amp; Gender</b>						
Black, Female	445	647	865	845	802	721
Black, Male	206	292	342	313	285	288
White, Female	693	851	901	1,040	997	896
White, Male	442	514	596	635	604	558
Other, Female	49	68	87	97	131	86
Other, Male	35	51	58	60	63	53
<b>Other Demographics</b>						
1. Economically Disadvantaged	308	479	710	819	979	659
2. Children with Disabilities	10	10	31	23	30	21
3. English learner	<10	<10	<10	11	20	<10
4. Homeless	<10	15	21	23	23	18
<b>Ecosystem of School</b>						
Ecosystem 1	63	106	129	121	112	106
Ecosystem 2	369	402	431	414	364	396
Ecosystem 3	90	110	146	117	131	119
Ecosystem 4	209	284	314	321	343	294
Ecosystem 5	231	277	474	463	416	372
Ecosystem 6	223	329	427	423	406	362
Ecosystem 7	109	133	172	216	214	169
Ecosystem 8	576	782	756	915	896	785
<b>WIOA Region of School</b>						
Delta	153	216	275	238	243	225
MS Partnership	578	686	745	735	707	690
South Central	340	410	646	679	630	541
Twin Districts	799	1,111	1,183	1,338	1,302	1,147
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	243	326	337	295	272	295
2. Architecture and Construction	88	130	146	147	149	132
3. Arts, A/V Technology, and Communications	64	76	120	138	113	102
4. Business, Marketing, and Finance	245	307	326	272	280	286
5. Education and Training	98	122	166	184	174	149
6. Health Science	737	933	1,087	1,174	1,202	1,027
7. Hospitality and Tourism	100	107	144	179	158	138
8. Human Services	56	85	130	162	124	111
9. Information Technology	29	41	41	47	51	42
10. Law, Public Safety, Corrections, and Security	26	44	67	89	85	62
11. Manufacturing	49	54	95	85	81	73
12. Science, Technology, Engineering, and Mathematics	126	189	194	224	221	191
13. Transportation, Distribution, and Logistics	55	75	76	87	77	74

**TABLE 12: WORK-BASED LEARNING FOR K-12 CTE PARTICIPANTS;  
NUMBER OF K-12 CTE PARTICIPANTS WHO COMPLETED A  
WORK-BASED LEARNING COURSE PRIOR TO K-12 GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>917</b>	<b>870</b>	<b>1,015</b>	<b>1,145</b>	<b>1,115</b>	<b>1,012</b>
<b>Gender</b>						
Female	493	456	533	635	592	542
Male	424	414	482	510	523	471
<b>Race</b>						
Black	325	322	376	447	488	392
White	545	512	602	643	563	573
Other	47	36	37	55	64	48
<b>Race &amp; Gender</b>						
Black, Female	210	215	251	311	290	255
Black, Male	115	107	125	136	198	136
White, Female	258	227	266	296	267	263
White, Male	287	285	336	347	296	310
Other, Female	25	14	16	28	35	24
Other, Male	22	22	21	27	29	24
<b>Other Demographics</b>						
1. Economically Disadvantaged	201	208	242	285	376	262
2. Children with Disabilities	<10	14	13	29	34	20
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	10	<10	12	<10
<b>Ecosystem of School</b>						
Ecosystem 1	51	36	43	65	56	50
Ecosystem 2	269	263	243	250	214	248
Ecosystem 3	50	29	49	28	21	35
Ecosystem 4	108	65	69	102	76	84
Ecosystem 5	96	124	151	203	313	177
Ecosystem 6	98	77	111	122	99	101
Ecosystem 7	41	30	30	30	27	32
Ecosystem 8	204	246	319	345	309	285
<b>WIOA Region of School</b>						
Delta	101	65	92	93	77	86
MS Partnership	377	328	312	352	290	332
South Central	137	154	181	233	340	209
Twin Districts	302	323	430	467	408	386
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	193	181	185	196	167	184
2. Architecture and Construction	86	105	110	107	86	99
3. Arts, A/V Technology, and Communications	53	55	54	55	60	55
4. Business, Marketing, and Finance	112	78	114	82	71	91
5. Education and Training	35	54	64	66	73	58
6. Health Science	220	174	218	282	300	239
7. Hospitality and Tourism	53	40	71	97	104	73
8. Human Services	52	48	38	64	85	57
9. Information Technology	20	21	24	15	20	20
10. Law, Public Safety, Corrections, and Security	15	36	26	52	32	32
11. Manufacturing	83	63	108	116	125	99
12. Science, Technology, Engineering, and Mathematics	42	48	57	77	51	55
13. Transportation, Distribution, and Logistics	81	107	100	103	84	95

**TABLE 13: WORK-BASED LEARNING FOR K-12 CTE CONCENTRATORS;  
NUMBER OF K-12 CTE CONCENTRATORS WHO COMPLETED A  
WORK-BASED LEARNING COURSE PRIOR TO K-12 GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>660</b>	<b>675</b>	<b>791</b>	<b>918</b>	<b>867</b>	<b>782</b>
<b>Gender</b>						
Female	346	343	405	510	447	410
Male	314	332	386	408	420	372
<b>Race</b>						
Black	216	237	287	348	348	287
White	412	409	472	529	467	458
Other	32	29	32	41	52	37
<b>Race &amp; Gender</b>						
Black, Female	137	158	190	239	204	186
Black, Male	79	79	97	109	144	102
White, Female	192	172	200	248	216	206
White, Male	220	237	272	281	251	252
Other, Female	17	13	15	23	27	19
Other, Male	15	16	17	18	25	18
<b>Other Demographics</b>						
1. Economically Disadvantaged	142	159	186	211	285	197
2. Children with Disabilities	<10	12	<10	23	27	16
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	35	25	36	45	40	36
Ecosystem 2	183	181	146	166	138	163
Ecosystem 3	22	22	31	21	20	23
Ecosystem 4	66	39	41	69	53	54
Ecosystem 5	72	98	124	180	220	139
Ecosystem 6	79	64	107	111	90	90
Ecosystem 7	29	20	21	23	26	24
Ecosystem 8	174	226	285	303	280	254
<b>WIOA Region of School</b>						
Delta	57	47	67	66	60	59
MS Partnership	249	220	187	235	191	216
South Central	101	118	145	203	246	163
Twin Districts	253	290	392	414	370	344
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	112	102	101	116	72	101
2. Architecture and Construction	50	72	82	84	69	71
3. Arts, A/V Technology, and Communications	35	48	42	38	41	41
4. Business, Marketing, and Finance	70	46	82	61	55	63
5. Education and Training	25	38	47	49	53	42
6. Health Science	159	139	177	240	233	190
7. Hospitality and Tourism	29	27	51	76	69	50
8. Human Services	36	37	29	41	68	42
9. Information Technology	15	12	14	<10	15	13
10. Law, Public Safety, Corrections, and Security	10	19	17	28	23	19
11. Manufacturing	59	48	97	84	91	76
12. Science, Technology, Engineering, and Mathematics	35	44	40	56	39	43
13. Transportation, Distribution, and Logistics	47	80	57	74	60	64

**TABLE 14: ENROLLMENT OF K-12 CTE PARTICIPANTS AT MISSISSIPPI COMMUNITY COLLEGE;  
NUMBER OF K-12 CTE PARTICIPANTS WHO GRADUATED K-12 AND SUBSEQUENTLY ENROLLED IN  
MISSISSIPPI COMMUNITY COLLEGE WITHIN ONE YEAR OF GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>6,451</b>	<b>6,785</b>	<b>6,365</b>	<b>6,133</b>	<b>5,573</b>	<b>6,261</b>
<b>Gender</b>						
Female	3,553	3,762	3,556	3,550	3,170	3,518
Male	2,898	3,023	2,809	2,583	2,403	2,743
<b>Race</b>						
Black	3,106	3,393	3,058	2,862	2,545	2,993
White	3,164	3,173	3,075	3,011	2,750	3,035
Other	181	219	232	260	278	234
<b>Race &amp; Gender</b>						
Black, Female	1,800	1,999	1,858	1,777	1,563	1,799
Black, Male	1,306	1,394	1,200	1,085	982	1,193
White, Female	1,659	1,655	1,575	1,623	1,434	1,589
White, Male	1,505	1,518	1,500	1,388	1,316	1,445
Other, Female	94	108	123	150	173	130
Other, Male	87	111	109	110	105	104
<b>Other Demographics</b>						
1. Economically Disadvantaged	1,285	1,557	1,634	1,792	2,089	1,671
2. Children with Disabilities	108	129	114	152	189	138
3. English learner	15	21	33	36	33	28
4. Homeless	42	49	37	36	51	43
<b>Ecosystem of School</b>						
Ecosystem 1	249	225	237	217	196	225
Ecosystem 2	1,093	1,145	1,096	1,044	916	1,059
Ecosystem 3	400	414	409	350	265	368
Ecosystem 4	797	821	779	837	719	791
Ecosystem 5	849	1,000	862	824	847	876
Ecosystem 6	1,073	1,080	999	930	862	989
Ecosystem 7	498	573	555	485	455	513
Ecosystem 8	1,492	1,527	1,428	1,446	1,313	1,441
<b>WIOA Region of School</b>						
Delta	649	639	646	567	461	592
MS Partnership	1,890	1,966	1,875	1,881	1,635	1,849
South Central	1,347	1,573	1,417	1,309	1,302	1,390
Twin Districts	2,565	2,607	2,427	2,376	2,175	2,430
<b>Major</b>						
Agriculture and Life Sciences	197	223	203	254	187	213
Architecture, Art, and Design	<10	<10	<10	12	20	10
Arts and Sciences	3,354	3,615	3,125	2,976	2,648	3,144
Business	373	420	363	416	383	391
Education	1,057	1,032	1,097	1,048	965	1,040
Engineering	461	444	468	472	408	451
Fine Arts	244	211	253	220	217	229
Legal Studies	120	123	148	140	129	132
Production	620	696	695	582	599	638
Undeclared	17	17	<10	13	17	14

**Table 14 Continued on Next Page**



**Table 14 Continued**

<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	1,261	1,388	1,240	1,178	1,080	1,229
2. Architecture and Construction	663	575	610	533	473	571
3. Arts, A/V Technology, and Communications	238	305	316	322	320	300
4. Business, Marketing, and Finance	956	944	758	594	532	757
5. Education and Training	369	486	455	447	382	428
6. Health Science	1,359	1,553	1,422	1,576	1,488	1,480
7. Hospitality and Tourism	516	497	454	509	440	483
8. Human Services	364	381	378	376	316	363
9. Information Technology	107	131	109	125	127	120
10. Law, Public Safety, Corrections, and Security	169	246	270	272	252	242
11. Manufacturing	404	374	414	356	352	380
12. Science, Technology, Engineering, and Mathematics	359	364	397	379	362	372
13. Transportation, Distribution, and Logistics	486	498	429	374	304	418

**TABLE 15: ENROLLMENT OF K-12 CTE CONCENTRATORS AT MISSISSIPPI COMMUNITY COLLEGE;  
NUMBER OF K-12 CTE CONCENTRATORS WHO GRADUATED K-12 AND SUBSEQUENTLY ENROLLED IN  
MISSISSIPPI COMMUNITY COLLEGE WITHIN ONE YEAR OF GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>4,081</b>	<b>4,458</b>	<b>4,255</b>	<b>3,964</b>	<b>3,773</b>	<b>4,106</b>
<b>Gender</b>						
Female	2,215	2,469	2,441	2,338	2,211	2,335
Male	1,866	1,989	1,814	1,626	1,562	1,771
<b>Race</b>						
Black	1,898	2,125	1,986	1,787	1,676	1,894
White	2,072	2,178	2,122	2,014	1,901	2,057
Other	111	155	147	163	196	154
<b>Race &amp; Gender</b>						
Black, Female	1,101	1,266	1,269	1,155	1,075	1,173
Black, Male	797	859	717	632	601	721
White, Female	1,052	1,126	1,088	1,089	1,006	1,072
White, Male	1,020	1,052	1,034	925	895	985
Other, Female	62	77	84	94	130	89
Other, Male	49	78	63	69	66	65
<b>Other Demographics</b>						
1. Economically Disadvantaged	820	1,035	1,085	1,147	1,425	1,102
2. Children with Disabilities	76	86	82	103	113	92
3. English learner	<10	15	17	22	28	17
4. Homeless	26	28	20	25	40	28
<b>Ecosystem of School</b>						
Ecosystem 1	129	127	149	115	128	130
Ecosystem 2	636	732	680	610	488	629
Ecosystem 3	275	277	259	243	176	246
Ecosystem 4	469	502	451	486	493	480
Ecosystem 5	484	588	541	503	555	534
Ecosystem 6	682	707	688	608	563	650
Ecosystem 7	350	393	368	331	337	356
Ecosystem 8	1,056	1,132	1,119	1,068	1,033	1,082
<b>WIOA Region of School</b>						
Delta	404	404	408	358	304	376
MS Partnership	1,105	1,234	1,131	1,096	981	1,109
South Central	834	981	909	834	892	890
Twin Districts	1,738	1,839	1,807	1,676	1,596	1,731
<b>Major</b>						
Agriculture and Life Sciences	143	150	140	156	117	141
Architecture, Art, and Design	<10	<10	<10	<10	12	<10
Arts and Sciences	2,087	2,329	2,070	1,918	1,806	2,042
Business	217	271	234	237	226	237
Education	619	646	697	672	665	660
Engineering	323	332	348	321	270	319
Fine Arts	160	148	163	138	144	151
Legal Studies	73	72	82	88	94	82
Production	444	499	513	417	432	461
Undeclared	10	<10	<10	<10	<10	<10
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						

**Table 15 Continued on Next Page**

**Table 15 Continued**

<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	678	746	649	514	448	607
2. Architecture and Construction	381	363	368	303	288	341
3. Arts, A/V Technology, and Communications	141	193	187	168	184	175
4. Business, Marketing, and Finance	454	451	451	320	288	393
5. Education and Training	216	265	298	287	252	264
6. Health Science	944	1,088	1,049	1,121	1,122	1,065
7. Hospitality and Tourism	290	295	273	276	259	279
8. Human Services	237	264	258	234	216	242
9. Information Technology	62	75	61	81	53	66
10. Law, Public Safety, Corrections, and Security	83	108	127	147	150	123
11. Manufacturing	228	228	265	237	246	241
12. Science, Technology, Engineering, and Mathematics	220	230	220	218	221	222
13. Transportation, Distribution, and Logistics	270	309	226	201	187	239

**TABLE 16: ENROLLMENT OF K-12 CTE PARTICIPANTS AT MISSISSIPPI PUBLIC UNIVERSITY;  
NUMBER OF K-12 CTE PARTICIPANTS WHO GRADUATED K-12 AND SUBSEQUENTLY ENROLLED IN  
MISSISSIPPI PUBLIC UNIVERSITY WITHIN ONE YEAR OF GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>1,895</b>	<b>1,664</b>	<b>1,524</b>	<b>1,469</b>	<b>1,503</b>	<b>1,611</b>
<b>Gender</b>						
Female	1,132	1,036	954	951	991	1,013
Male	763	628	570	518	512	598
<b>Race</b>						
Black	1,136	992	861	781	774	909
White	694	599	609	616	637	631
Other	65	73	54	72	92	71
<b>Race &amp; Gender</b>						
Black, Female	741	651	590	557	549	618
Black, Male	395	341	271	224	225	291
White, Female	365	346	335	361	384	358
White, Male	329	253	274	255	253	273
Other, Female	26	39	29	33	58	37
Other, Male	39	34	25	39	34	34
<b>Other Demographics</b>						
1. Economically Disadvantaged	346	340	407	328	432	371
2. Children with Disabilities	12	<10	12	<10	<10	10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	10	<10	14	10
<b>Ecosystem of School</b>						
Ecosystem 1	60	76	32	57	60	57
Ecosystem 2	277	219	194	205	194	218
Ecosystem 3	245	175	179	114	114	165
Ecosystem 4	198	157	142	171	157	165
Ecosystem 5	401	377	389	319	361	369
Ecosystem 6	157	153	142	139	147	148
Ecosystem 7	133	126	120	99	110	118
Ecosystem 8	424	381	326	365	360	371
<b>WIOA Region of School</b>						
Delta	305	251	211	171	174	222
MS Partnership	475	376	336	376	351	383
South Central	534	503	509	418	471	487
Twin Districts	581	534	468	504	507	519
<b>Major</b>						
Agriculture and Life Sciences	401	326	295	307	310	328
Architecture, Art, and Design	14	10	<10	12	15	12
Arts and Sciences	617	436	369	363	367	430
Business	192	179	155	143	157	165
Education	301	354	344	334	361	339
Engineering	258	235	236	202	212	229
Fine Arts	60	61	55	59	38	55
Legal Studies	47	62	56	48	43	51
Production	<10	<10	<10	<10	<10	<10
Undeclared	<10	<10	<10	<10	<10	<10

**Table 16 Continued on Next Page**

**Table 16 Continued**

<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	169	187	147	142	141	157
2. Architecture and Construction	144	117	100	74	76	102
3. Arts, A/V Technology, and Communications	93	95	99	116	102	101
4. Business, Marketing, and Finance	377	246	213	203	190	246
5. Education and Training	114	113	81	80	104	98
6. Health Science	572	507	511	499	555	529
7. Hospitality and Tourism	125	105	92	106	102	106
8. Human Services	82	88	77	84	83	83
9. Information Technology	36	30	29	37	58	38
10. Law, Public Safety, Corrections, and Security	38	78	68	63	54	60
11. Manufacturing	45	37	31	34	26	35
12. Science, Technology, Engineering, and Mathematics	187	170	177	157	153	169
13. Transportation, Distribution, and Logistics	73	62	60	50	30	55

**TABLE 17: ENROLLMENT OF K-12 CTE CONCENTRATORS AT MISSISSIPPI PUBLIC UNIVERSITY;  
NUMBER OF K-12 CTE CONCENTRATORS WHO GRADUATED K-12 AND SUBSEQUENTLY ENROLLED IN  
MISSISSIPPI PUBLIC UNIVERSITY WITHIN ONE YEAR OF GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>1,197</b>	<b>1,076</b>	<b>1,002</b>	<b>946</b>	<b>996</b>	<b>1,043</b>
<b>Gender</b>						
Female	728	698	625	631	661	669
Male	469	378	377	315	335	375
<b>Race</b>						
Black	735	654	541	531	498	592
White	416	373	417	372	430	402
Other	46	49	44	43	68	50
<b>Race &amp; Gender</b>						
Black, Female	484	452	372	381	355	409
Black, Male	251	202	169	150	143	183
White, Female	229	217	230	228	263	233
White, Male	187	156	187	144	167	168
Other, Female	15	29	23	22	43	26
Other, Male	31	20	21	21	25	24
<b>Other Demographics</b>						
1. Economically Disadvantaged	218	220	259	224	276	239
2. Children with Disabilities	<10	<10	<10	<10	<10	<10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	35	52	23	37	41	38
Ecosystem 2	157	127	117	100	101	120
Ecosystem 3	161	113	94	72	74	103
Ecosystem 4	116	104	90	104	105	104
Ecosystem 5	246	216	256	204	243	233
Ecosystem 6	100	106	106	103	100	103
Ecosystem 7	88	88	76	73	75	80
Ecosystem 8	294	270	240	253	257	263
<b>WIOA Region of School</b>						
Delta	196	165	117	109	115	140
MS Partnership	273	231	207	204	206	224
South Central	334	304	332	277	318	313
Twin Districts	394	376	346	356	357	366
<b>Major</b>						
Agriculture and Life Sciences	272	230	199	206	216	225
Architecture, Art, and Design	10	<10	<10	<10	<10	<10
Arts and Sciences	387	251	239	229	245	270
Business	104	110	98	84	88	97
Education	185	250	232	230	243	228
Engineering	169	154	160	124	144	150
Fine Arts	41	39	33	37	28	36
Legal Studies	27	36	34	28	23	30
Production	<10	<10	<10	<10	<10	<10
Undeclared	<10	<10	<10	<10	996	<10
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						

*Table 17 Continued on Next Page*

**Table 17 Continued**

<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	89	105	88	64	51	79
2. Architecture and Construction	74	70	47	49	42	56
3. Arts, A/V Technology, and Communications	62	60	56	55	58	58
4. Business, Marketing, and Finance	185	137	113	102	96	127
5. Education and Training	65	47	52	48	67	56
6. Health Science	391	375	391	369	421	389
7. Hospitality and Tourism	75	62	49	61	54	60
8. Human Services	56	56	40	43	57	50
9. Information Technology	21	21	21	18	21	20
10. Law, Public Safety, Corrections, and Security	22	25	29	37	24	27
11. Manufacturing	18	19	19	14	18	18
12. Science, Technology, Engineering, and Mathematics	121	98	107	89	97	102
13. Transportation, Distribution, and Logistics	35	25	28	26	19	27



**TABLE 18: COLLEGE RETENTION OF K-12 CTE PARTICIPANTS;  
NUMBER OF K-12 CTE PARTICIPANTS WHO ENROLLED IN COMMUNITY COLLEGE AFTER K-12  
GRADUATION AND THEN CONTINUED TO BE ENROLLED IN THE  
SUBSEQUENT FALL SEMESTER OF THE SECOND ACADEMIC YEAR**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>4,111</b>	<b>4,413</b>	<b>4,131</b>	<b>3,818</b>	<b>3,618</b>	<b>4,018</b>
<b>Gender</b>						
Female	2,362	2,542	2,446	2,311	2,141	2,360
Male	1,749	1,871	1,685	1,507	1,477	1,658
<b>Race</b>						
Black	1,882	2,106	1,924	1,730	1,603	1,849
White	2,089	2,152	2,046	1,920	1,825	2,006
Other	140	155	161	168	190	163
<b>Race &amp; Gender</b>						
Black, Female	1,174	1,317	1,259	1,136	1,044	1,186
Black, Male	708	789	665	594	559	663
White, Female	1,115	1,153	1,094	1,075	980	1,083
White, Male	974	999	952	845	845	923
Other, Female	73	72	93	100	117	91
Other, Male	67	83	68	68	73	72
<b>Other Demographics</b>						
1. Economically Disadvantaged	808	990	1,037	1,105	1,300	1,048
2. Children with Disabilities	66	76	61	80	108	78
3. English learner	12	15	22	26	20	19
4. Homeless	21	32	23	16	30	24
<b>Ecosystem of School</b>						
Ecosystem 1	134	139	144	131	121	134
Ecosystem 2	696	790	732	667	601	697
Ecosystem 3	266	248	275	214	169	234
Ecosystem 4	517	547	484	493	421	492
Ecosystem 5	525	641	586	533	530	563
Ecosystem 6	645	654	617	539	553	602
Ecosystem 7	337	382	373	315	316	345
Ecosystem 8	991	1,012	920	926	907	951
<b>WIOA Region of School</b>						
Delta	400	387	419	345	290	368
MS Partnership	1,213	1,337	1,216	1,160	1,022	1,190
South Central	862	1,023	959	848	846	908
Twin Districts	1,636	1,666	1,537	1,465	1,460	1,553
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	771	875	793	734	690	773
2. Architecture and Construction	386	351	359	305	273	335
3. Arts, A/V Technology, and Communications	159	232	213	186	201	198
4. Business, Marketing, and Finance	641	612	513	395	339	500
5. Education and Training	235	319	291	291	242	276
6. Health Science	964	1,110	1,027	1,093	1,052	1,049
7. Hospitality and Tourism	338	299	291	287	288	301
8. Human Services	234	234	252	220	200	228
9. Information Technology	67	88	80	90	77	80
10. Law, Public Safety, Corrections, and Security	89	139	180	161	149	144

**Table 18 Continued on Next Page**

**Table 18 Continued**

11. Manufacturing	218	203	206	177	185	198
12. Science, Technology, Engineering, and Mathematics	251	267	268	232	254	254
13. Transportation, Distribution, and Logistics	252	297	239	190	194	234

**TABLE 19: COLLEGE RETENTION OF K-12 CTE CONCENTRATORS;  
NUMBER OF K-12 CTE CONCENTRATORS WHO ENROLLED IN COMMUNITY COLLEGE AFTER K-12  
GRADUATION AND THEN CONTINUED TO BE ENROLLED IN THE  
SUBSEQUENT FALL SEMESTER OF THE SECOND ACADEMIC YEAR**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>2,668</b>	<b>3,016</b>	<b>2,818</b>	<b>2,522</b>	<b>2,522</b>	<b>2,709</b>
<b>Gender</b>						
Female	1,514	1,750	1,731	1,566	1,545	1,621
Male	1,154	1,266	1,087	956	977	1,088
<b>Race</b>						
Black	1,211	1,377	1,293	1,113	1,091	1,217
White	1,374	1,523	1,423	1,297	1,296	1,383
Other	83	116	102	112	135	110
<b>Race &amp; Gender</b>						
Black, Female	752	882	893	755	742	805
Black, Male	459	495	400	358	349	412
White, Female	713	813	773	745	714	752
White, Male	661	710	650	552	582	631
Other, Female	49	55	65	66	89	65
Other, Male	34	61	37	46	46	45
<b>Other Demographics</b>						
1. Economically Disadvantaged	532	684	700	730	918	713
2. Children with Disabilities	48	53	42	56	66	53
3. English learner	<10	11	10	17	18	12
4. Homeless	14	19	16	12	23	17
<b>Ecosystem of School</b>						
Ecosystem 1	68	80	85	75	81	78
Ecosystem 2	403	527	459	403	339	426
Ecosystem 3	185	179	174	145	115	160
Ecosystem 4	310	350	291	286	306	309
Ecosystem 5	315	387	373	331	347	351
Ecosystem 6	428	442	435	364	370	408
Ecosystem 7	241	268	255	215	237	243
Ecosystem 8	718	783	746	703	727	735
<b>WIOA Region of School</b>						
Delta	253	259	259	220	196	237
MS Partnership	713	877	750	689	645	735
South Central	556	655	628	546	584	594
Twin Districts	1,146	1,225	1,181	1,067	1,097	1,143
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	411	459	409	315	300	379
2. Architecture and Construction	226	237	219	178	178	208
3. Arts, A/V Technology, and Communications	98	152	121	100	120	118
4. Business, Marketing, and Finance	314	311	304	214	187	266
5. Education and Training	140	188	199	199	166	178
6. Health Science	694	815	775	792	807	777
7. Hospitality and Tourism	189	174	183	151	175	174
8. Human Services	163	170	173	143	143	158
9. Information Technology	45	53	46	56	37	47
10. Law, Public Safety, Corrections, and Security	43	61	89	89	92	75

**Table 19 Continued on Next Page**

**Table 19 Continued**

11. Manufacturing	125	128	132	124	129	128
12. Science, Technology, Engineering, and Mathematics	158	173	156	145	161	159
13. Transportation, Distribution, and Logistics	143	197	120	102	122	137

**TABLE 20: UNIVERSITY RETENTION OF K-12 CTE PARTICIPANTS;  
NUMBER OF K-12 CTE PARTICIPANTS WHO ENROLLED IN PUBLIC UNIVERSITY AFTER K-12  
GRADUATION AND THEN CONTINUED TO BE ENROLLED IN THE  
SUBSEQUENT FALL SEMESTER OF THE SECOND ACADEMIC YEAR**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>1,378</b>	<b>1,215</b>	<b>1,171</b>	<b>1,075</b>	<b>1,145</b>	<b>1,197</b>
<b>Gender</b>						
Female	848	781	752	699	758	768
Male	530	434	419	376	387	429
<b>Race</b>						
Black	789	693	632	538	552	641
White	535	464	496	478	516	498
Other	54	58	43	59	77	58
<b>Race &amp; Gender</b>						
Black, Female	525	468	449	390	393	445
Black, Male	264	225	183	148	159	196
White, Female	299	281	281	281	316	292
White, Male	236	183	215	197	200	206
Other, Female	24	32	22	28	49	31
Other, Male	30	26	21	31	28	27
<b>Other Demographics</b>						
1. Economically Disadvantaged	220	241	300	232	300	259
2. Children with Disabilities	<10	<10	12	<10	<10	<10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	39	52	21	43	43	40
Ecosystem 2	219	177	164	166	159	177
Ecosystem 3	166	109	113	75	76	108
Ecosystem 4	150	106	114	107	115	118
Ecosystem 5	277	293	315	253	278	283
Ecosystem 6	113	105	111	97	111	107
Ecosystem 7	88	85	90	67	90	84
Ecosystem 8	326	288	243	267	273	279
<b>WIOA Region of School</b>						
Delta	205	161	134	118	119	147
MS Partnership	369	283	278	273	274	295
South Central	365	378	405	320	368	367
Twin Districts	439	393	354	364	384	387
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	129	153	120	95	108	121
2. Architecture and Construction	90	65	64	45	53	63
3. Arts, A/V Technology, and Communications	55	77	78	93	73	75
4. Business, Marketing, and Finance	286	175	158	151	142	182
5. Education and Training	83	81	63	49	79	71
6. Health Science	453	400	425	396	443	423
7. Hospitality and Tourism	84	62	64	74	70	71
8. Human Services	57	66	53	56	63	59
9. Information Technology	19	22	26	27	46	28

**Table 20 Continued on Next Page**

***Table 20 Continued***

10. Law, Public Safety, Corrections, and Security	28	49	51	40	40	42
11. Manufacturing	32	23	23	24	13	23
12. Science, Technology, Engineering, and Mathematics	140	133	131	110	120	127
13. Transportation, Distribution, and Logistics	44	32	35	32	22	33

**TABLE 21: UNIVERSITY RETENTION OF K-12 CTE CONCENTRATORS;  
NUMBER OF K-12 CTE CONCENTRATORS WHO ENROLLED IN PUBLIC UNIVERSITY AFTER K-12  
GRADUATION AND THEN CONTINUED TO BE ENROLLED IN THE  
SUBSEQUENT FALL SEMESTER OF THE SECOND ACADEMIC YEAR**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>869</b>	<b>793</b>	<b>784</b>	<b>697</b>	<b>758</b>	<b>780</b>
<b>Gender</b>						
Female	548	524	501	471	506	510
Male	321	269	283	226	252	270
<b>Race</b>						
Black	508	461	408	375	356	422
White	323	293	343	287	345	318
Other	38	39	33	35	57	40
<b>Race &amp; Gender</b>						
Black, Female	341	326	288	273	256	297
Black, Male	167	135	120	102	100	125
White, Female	192	175	197	179	214	191
White, Male	131	118	146	108	131	127
Other, Female	15	23	16	19	36	22
Other, Male	23	16	17	16	21	19
<b>Other Demographics</b>						
1. Economically Disadvantaged	141	162	191	159	186	168
2. Children with Disabilities	<10	<10	<10	<10	<10	<10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	23	35	15	28	30	26
Ecosystem 2	126	104	103	83	83	100
Ecosystem 3	113	68	59	53	49	68
Ecosystem 4	88	69	73	63	76	74
Ecosystem 5	162	171	215	161	189	180
Ecosystem 6	69	71	84	73	76	75
Ecosystem 7	58	64	57	49	60	58
Ecosystem 8	230	211	178	187	195	200
<b>WIOA Region of School</b>						
Delta	136	103	74	81	79	95
MS Partnership	214	173	176	146	159	174
South Central	220	235	272	210	249	237
Twin Districts	299	282	262	260	271	275
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	63	89	77	48	37	63
2. Architecture and Construction	47	37	30	27	29	34
3. Arts, A/V Technology, and Communications	36	48	45	46	39	43
4. Business, Marketing, and Finance	139	93	82	73	70	91
5. Education and Training	48	37	41	28	54	42
6. Health Science	307	300	326	298	338	314
7. Hospitality and Tourism	47	38	32	43	37	39
8. Human Services	41	39	26	30	40	35
9. Information Technology	11	17	18	12	16	15

**Table 21 Continued on Next Page**

**Table 21 Continued**

10. Law, Public Safety, Corrections, and Security	17	13	23	24	20	19
11. Manufacturing	13	10	12	10	11	11
12. Science, Technology, Engineering, and Mathematics	92	78	83	62	78	79
13. Transportation, Distribution, and Logistics	21	14	19	17	12	17



**TABLE 22: COLLEGE ALIGNMENT OF K-12 CTE PARTICIPANTS;  
NUMBER OF K-12 CTE PARTICIPANTS WHO ENROLLED IN A MISSISSIPPI COMMUNITY COLLEGE AFTER  
K-12 GRADUATION AND SUBSEQUENTLY DECLARE A MAJOR THAT IS ALIGNED WITH THEIR K-12 CTE  
CLUSTER**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>492</b>	<b>513</b>	<b>531</b>	<b>514</b>	<b>394</b>	<b>489</b>
<b>Gender</b>						
Female	150	155	162	178	108	151
Male	342	358	369	336	286	338
<b>Race</b>						
Black	237	236	241	233	167	223
White	237	256	274	255	208	246
Other	18	21	16	26	19	20
<b>Race &amp; Gender</b>						
Black, Female	82	93	97	111	54	87
Black, Male	155	143	144	122	113	135
White, Female	60	59	58	60	47	57
White, Male	177	197	216	195	161	189
Other, Female	<10	<10	<10	<10	<10	<10
Other, Male	10	18	<10	19	12	14
<b>Other Demographics</b>						
1. Economically Disadvantaged	92	118	136	154	163	133
2. Children with Disabilities	14	18	16	18	28	19
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	17	18	14	12	10	14
Ecosystem 2	53	79	74	72	66	69
Ecosystem 3	31	32	24	33	22	28
Ecosystem 4	49	40	54	56	55	51
Ecosystem 5	64	79	74	60	46	65
Ecosystem 6	96	91	81	90	68	85
Ecosystem 7	46	41	55	32	29	41
Ecosystem 8	136	133	155	159	98	136
<b>WIOA Region of School</b>						
Delta	48	50	38	45	32	43
MS Partnership	102	119	128	128	121	120
South Central	110	120	129	92	75	105
Twin Districts	232	224	236	249	166	221
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	21	22	17	19	14	19
2. Architecture and Construction	92	98	102	91	88	94
3. Arts, A/V Technology, and Communications	11	16	28	21	19	19
4. Business, Marketing, and Finance	46	37	44	40	21	38
5. Education and Training	<10	<10	<10	<10	<10	<10
6. Health Science	34	56	45	62	18	43
7. Hospitality and Tourism	50	23	38	29	31	34
8. Human Services	40	44	40	42	28	39
9. Information Technology	17	25	<10	24	11	17

**Table 22 Continued on Next Page**

**Table 22 Continued**

10. Law, Public Safety, Corrections, and Security	<10	<10	<10	<10	<10	<10
11. Manufacturing	106	95	123	111	96	106
12. Science, Technology, Engineering, and Mathematics	<10	<10	<10	<10	<10	<10
13. Transportation, Distribution, and Logistics	74	90	82	65	61	74

**TABLE 23: COLLEGE ALIGNMENT OF K-12 CTE CONCENTRATORS;  
NUMBER OF K-12 CTE CONCENTRATORS WHO ENROLLED IN A MISSISSIPPI COMMUNITY COLLEGE  
AFTER K-12 GRADUATION AND SUBSEQUENTLY DECLARE A MAJOR THAT IS ALIGNED WITH THEIR K-12  
CTE CLUSTER**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>371</b>	<b>389</b>	<b>413</b>	<b>378</b>	<b>304</b>	<b>371</b>
<b>Gender</b>						
Female	112	121	130	127	83	115
Male	259	268	283	251	221	256
<b>Race</b>						
Black	169	166	172	165	127	160
White	188	205	226	195	160	195
Other	14	18	15	18	17	16
<b>Race &amp; Gender</b>						
Black, Female	55	70	77	77	41	64
Black, Male	114	96	95	88	86	96
White, Female	50	49	46	43	36	45
White, Male	138	156	180	152	124	150
Other, Female	<10	<10	<10	<10	<10	<10
Other, Male	<10	16	<10	11	11	11
<b>Other Demographics</b>						
1. Economically Disadvantaged	69	98	108	109	126	102
2. Children with Disabilities	13	12	15	17	23	16
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	<10	11	<10	10	<10	<10
Ecosystem 2	38	64	57	57	41	51
Ecosystem 3	21	24	18	22	15	20
Ecosystem 4	33	33	32	42	38	36
Ecosystem 5	47	52	52	37	37	45
Ecosystem 6	69	65	63	60	54	62
Ecosystem 7	39	31	42	24	25	32
Ecosystem 8	115	109	141	126	86	115
<b>WIOA Region of School</b>						
Delta	30	35	26	32	23	29
MS Partnership	71	97	89	99	79	87
South Central	86	83	94	61	62	77
Twin Districts	184	174	204	186	140	178
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	17	18	15	<10	<10	13
2. Architecture and Construction	70	75	82	66	66	72
3. Arts, A/V Technology, and Communications	11	13	24	16	17	16
4. Business, Marketing, and Finance	32	25	37	35	15	29
5. Education and Training	<10	<10	<10	<10	<10	<10
6. Health Science	21	36	27	36	14	27
7. Hospitality and Tourism	44	21	33	24	25	29
8. Human Services	31	37	34	34	21	31
9. Information Technology	15	22	<10	22	<10	15

**Table 23 Continued on Next Page**

**Table 23 Continued**

10. Law, Public Safety, Corrections, and Security	<10	<10	<10	<10	<10	<10
11. Manufacturing	75	65	94	88	81	81
12. Science, Technology, Engineering, and Mathematics	<10	<10	<10	<10	<10	<10
13. Transportation, Distribution, and Logistics	53	73	59	44	46	55

**TABLE 24: UNIVERSITY ALIGNMENT OF K-12 CTE PARTICIPANTS;  
NUMBER OF K-12 CTE PARTICIPANTS WHO ENROLLED IN A MISSISSIPPI PUBLIC UNIVERSITY AFTER K-  
12 GRADUATION AND SUBSEQUENTLY DECLARE A MAJOR THAT IS ALIGNED WITH THEIR K-12 CTE  
CLUSTER**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>405</b>	<b>440</b>	<b>424</b>	<b>409</b>	<b>420</b>	<b>420</b>
<b>Gender</b>						
Female	200	272	237	245	265	244
Male	205	168	187	164	155	176
<b>Race</b>						
Black	212	233	213	202	177	207
White	172	183	189	182	210	187
Other	21	24	22	25	33	25
<b>Race &amp; Gender</b>						
Black, Female	125	161	141	140	130	139
Black, Male	87	72	72	62	47	68
White, Female	69	99	88	92	118	93
White, Male	103	84	101	90	92	94
Other, Female	<10	12	<10	13	17	11
Other, Male	15	12	14	12	16	14
<b>Other Demographics</b>						
1. Economically Disadvantaged	56	89	106	90	125	93
2. Children with Disabilities	<10	<10	<10	<10	<10	<10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	11	<10	<10	10	<10	<10
Ecosystem 2	70	63	50	57	66	61
Ecosystem 3	33	22	34	18	15	24
Ecosystem 4	50	53	44	49	48	49
Ecosystem 5	84	91	101	93	94	93
Ecosystem 6	21	42	36	43	35	35
Ecosystem 7	26	39	30	20	31	29
Ecosystem 8	110	122	125	119	122	120
<b>WIOA Region of School</b>						
Delta	44	30	38	28	24	33
MS Partnership	120	116	94	106	114	110
South Central	110	130	131	113	125	122
Twin Districts	131	164	161	162	157	155
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	25	21	26	18	16	21
2. Architecture and Construction	16	14	11	15	12	14
3. Arts, A/V Technology, and Communications	26	19	17	19	17	20
4. Business, Marketing, and Finance	70	54	45	46	46	52
5. Education and Training	32	37	29	24	27	30
6. Health Science	64	139	133	138	154	126
7. Hospitality and Tourism	17	14	13	19	<10	14
8. Human Services	11	13	<10	<10	<10	10
9. Information Technology	19	21	16	20	26	20

**Table 24 Continued on Next Page**

**Table 24 Continued**

10. Law, Public Safety, Corrections, and Security	<10	17	<10	11	12	10
11. Manufacturing	<10	<10	<10	<10	<10	<10
12. Science, Technology, Engineering, and Mathematics	111	86	111	85	94	97
13. Transportation, Distribution, and Logistics	<10	<10	<10	<10	<10	<10

**TABLE 25: UNIVERSITY ALIGNMENT OF K-12 CTE CONCENTRATORS;  
NUMBER OF K-12 CTE CONCENTRATORS WHO ENROLLED IN A MISSISSIPPI PUBLIC UNIVERSITY AFTER  
K-12 GRADUATION AND SUBSEQUENTLY DECLARE A MAJOR THAT IS ALIGNED WITH THEIR K-12 CTE  
CLUSTER**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>268</b>	<b>318</b>	<b>318</b>	<b>297</b>	<b>297</b>	<b>300</b>
<b>Gender</b>						
Female	129	202	176	189	190	177
Male	139	116	142	108	107	122
<b>Race</b>						
Black	142	164	155	153	119	147
White	109	138	146	124	152	134
Other	17	16	17	20	26	19
<b>Race &amp; Gender</b>						
Black, Female	78	114	103	108	88	98
Black, Male	64	50	52	45	31	48
White, Female	47	79	67	70	88	70
White, Male	62	59	79	54	64	64
Other, Female	<10	<10	<10	11	14	<10
Other, Male	13	<10	11	<10	12	10
<b>Other Demographics</b>						
1. Economically Disadvantaged	40	70	80	72	76	68
2. Children with Disabilities	<10	<10	<10	<10	<10	<10
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	<10	<10	<10	<10	<10	<10
Ecosystem 2	47	44	37	32	36	39
Ecosystem 3	22	18	24	14	10	18
Ecosystem 4	33	33	32	39	37	35
Ecosystem 5	47	59	72	63	72	63
Ecosystem 6	17	32	29	37	27	28
Ecosystem 7	14	32	20	15	17	20
Ecosystem 8	83	95	101	89	94	92
<b>WIOA Region of School</b>						
Delta	27	23	27	22	14	23
MS Partnership	80	77	69	71	73	74
South Central	61	91	92	78	89	82
Twin Districts	100	127	130	126	121	121
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	17	12	21	13	<10	14
2. Architecture and Construction	<10	10	<10	12	<10	10
3. Arts, A/V Technology, and Communications	19	12	14	10	11	13
4. Business, Marketing, and Finance	34	38	30	29	24	31
5. Education and Training	23	22	22	20	21	22
6. Health Science	45	116	113	118	125	103
7. Hospitality and Tourism	10	10	10	14	<10	10
8. Human Services	<10	<10	<10	<10	<10	<10
9. Information Technology	13	17	10	12	14	13

*Table 25 Continued on Next Page*

**Table 25 Continued**

10. Law, Public Safety, Corrections, and Security	<10	<10	<10	10	<10	<10
11. Manufacturing	<10	<10	<10	<10	<10	<10
12. Science, Technology, Engineering, and Mathematics	77	61	78	51	66	67
13. Transportation, Distribution, and Logistics	<10	<10	<10	<10	<10	<10



**TABLE 26: EMPLOYMENT OF K-12 CTE PARTICIPANTS;  
NUMBER OF K-12 CTE PARTICIPANTS EMPLOYED WITHIN ONE YEAR OF K-12  
GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>2,651</b>	<b>2,914</b>	<b>2,971</b>	<b>3,781</b>	<b>3,862</b>	<b>3,236</b>
<b>Gender</b>						
Female	1,038	1,150	1,150	1,542	1,648	1,306
Male	1,613	1,764	1,821	2,239	2,214	1,930
<b>Race</b>						
Black	1,266	1,433	1,419	1,992	2,015	1,625
White	1,295	1,387	1,425	1,639	1,663	1,482
Other	90	94	127	150	184	129
<b>Race &amp; Gender</b>						
Black, Female	569	647	638	923	956	747
Black, Male	697	786	781	1,069	1,059	878
White, Female	437	457	454	557	616	504
White, Male	858	930	971	1,082	1,047	978
Other, Female	32	46	58	62	76	55
Other, Male	58	48	69	88	108	74
<b>Other Demographics</b>						
1. Economically Disadvantaged	514	656	772	1,217	1,469	926
2. Children with Disabilities	71	82	111	153	209	125
3. English learner	<10	<10	23	31	45	22
4. Homeless	23	34	25	49	43	35
<b>Ecosystem of School</b>						
Ecosystem 1	103	117	116	149	162	129
Ecosystem 2	532	557	605	727	658	616
Ecosystem 3	135	155	148	211	284	187
Ecosystem 4	275	307	332	438	421	355
Ecosystem 5	403	434	385	566	578	473
Ecosystem 6	349	409	483	545	535	464
Ecosystem 7	203	197	221	292	333	249
Ecosystem 8	651	738	681	853	891	763
<b>WIOA Region of School</b>						
Delta	238	272	264	360	446	316
MS Partnership	807	864	937	1,165	1,079	970
South Central	606	631	606	858	911	722
Twin Districts	1,000	1,147	1,164	1,398	1,426	1,227
<b>Industry</b>						
Accommodation/Leisure	852	957	922	1,150	1,183	1,013
Administrative and Waste Services	281	333	360	428	393	359
Construction	153	159	178	194	194	176
Educational Services	14	28	26	16	22	21
Financial Activities	13	18	19	14	22	17
Health Care and Social Assistance	83	111	111	141	146	118
Information	14	<10	<10	10	17	12
Management of Companies and Enterprises	37	25	32	<10	12	22
Manufacturing	357	345	367	523	513	421
Natural Resources	39	37	32	28	37	35
Other Services (except Public Administration)	53	64	51	68	67	61
Professional, Scientific, and Technical Services	24	32	24	30	41	30

**Table 26 Continued on Next Page**

**Table 26 Continued**

Public Administration	55	50	61	54	53	55
Transportation and Warehousing	60	66	55	124	120	85
Utilities	<10	<10	<10	<10	<10	<10
Wholesale/Retail Trade	611	671	707	990	1,031	802
Industry not reported	<10	<10	13	<10	<10	<10
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	602	632	607	793	770	681
2. Architecture and Construction	355	376	387	510	470	420
3. Arts, A/V Technology, and Communications	71	103	126	135	190	125
4. Business, Marketing, and Finance	356	388	284	359	340	345
5. Education and Training	108	120	146	180	224	156
6. Health Science	301	323	373	438	491	385
7. Hospitality and Tourism	186	201	236	325	306	251
8. Human Services	123	144	144	236	227	175
9. Information Technology	44	47	53	51	66	52
10. Law, Public Safety, Corrections, and Security	96	122	157	184	208	153
11. Manufacturing	282	316	383	488	494	393
12. Science, Technology, Engineering, and Mathematics	114	152	149	203	211	166
13. Transportation, Distribution, and Logistics	382	420	385	444	383	403

**TABLE 27: EMPLOYMENT OF K-12 CTE CONCENTRATORS;  
NUMBER OF K-12 CTE CONCENTRATORS EMPLOYED WITHIN ONE YEAR OF K-12 GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>1,629</b>	<b>1,865</b>	<b>1,878</b>	<b>2,321</b>	<b>2,417</b>	<b>2,022</b>
<b>Gender</b>						
Female	611	713	691	935	1,018	794
Male	1,018	1,152	1,187	1,386	1,399	1,228
<b>Race</b>						
Black	695	847	829	1,160	1,212	949
White	883	961	963	1,071	1,097	995
Other	51	57	86	90	108	78
<b>Race &amp; Gender</b>						
Black, Female	310	382	378	550	581	440
Black, Male	385	465	451	610	631	508
White, Female	286	302	275	345	392	320
White, Male	597	659	688	726	705	675
Other, Female	15	29	38	40	45	33
Other, Male	36	28	48	50	63	45
<b>Other Demographics</b>						
1. Economically Disadvantaged	321	415	476	756	924	578
2. Children with Disabilities	51	54	71	80	133	78
3. English learner	<10	<10	16	21	27	14
4. Homeless	13	22	17	29	24	21
<b>Ecosystem of School</b>						
Ecosystem 1	50	76	71	73	102	74
Ecosystem 2	313	350	385	396	356	360
Ecosystem 3	88	98	94	136	194	122
Ecosystem 4	166	195	189	254	233	207
Ecosystem 5	234	252	226	372	379	293
Ecosystem 6	214	253	311	330	332	288
Ecosystem 7	132	122	127	179	230	158
Ecosystem 8	432	519	475	581	591	520
<b>WIOA Region of School</b>						
Delta	138	174	165	209	296	196
MS Partnership	479	545	574	650	589	567
South Central	366	374	353	551	609	451
Twin Districts	646	772	786	911	923	808
<b>Industry</b>						
Accommodation/Leisure	490	587	556	699	733	613
Administrative and Waste Services	157	211	211	261	222	212
Construction	115	106	128	116	130	119
Educational Services	<10	18	17	<10	17	14
Financial Activities	<10	11	10	10	16	11
Health Care and Social Assistance	57	72	68	86	96	76
Information	10	<10	<10	<10	12	<10
Management of Companies and Enterprises	18	17	11	<10	<10	11
Manufacturing	227	224	238	317	312	264
Natural Resources	23	26	27	11	24	22
Other Services (except Public Administration)	34	47	40	46	37	41
Professional, Scientific, and Technical Services	19	22	14	23	27	21
Public Administration	36	32	48	36	36	38
Transportation and Warehousing	40	37	28	68	86	52
Utilities	<10	<10	<10	<10	<10	<10

**Table 27 Continued on Next Page**

**Table 27 Continued**

Wholesale/Retail Trade	380	440	464	625	654	513
Industry not reported	<10	<10	<10	<10	<10	<10
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	351	337	315	344	323	334
2. Architecture and Construction	205	232	245	322	292	259
3. Arts, A/V Technology, and Communications	51	61	71	75	103	72
4. Business, Marketing, and Finance	146	167	139	198	178	166
5. Education and Training	54	68	85	121	145	95
6. Health Science	200	209	227	272	320	246
7. Hospitality and Tourism	106	125	145	175	166	143
8. Human Services	73	96	95	143	153	112
9. Information Technology	18	23	28	29	26	25
10. Law, Public Safety, Corrections, and Security	44	63	63	93	114	75
11. Manufacturing	164	203	259	297	325	250
12. Science, Technology, Engineering, and Mathematics	60	93	56	84	95	78
13. Transportation, Distribution, and Logistics	212	264	225	247	241	238

**TABLE 28: AVERAGE ANNUALIZED EARNINGS OF EMPLOYED K-12 CTE PARTICIPANTS;  
EARNINGS OF K-12 CTE PARTICIPANTS WHO ARE EMPLOYED WITHIN ONE YEAR OF K-12 GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>\$10,921</b>	<b>\$11,563</b>	<b>\$11,965</b>	<b>\$13,010</b>	<b>\$14,534</b>	<b>\$12,533</b>
<b>Gender</b>						
Female	\$8,364	\$9,176	\$9,902	\$10,067	\$12,474	\$10,141
Male	\$13,108	\$13,625	\$14,103	\$15,498	\$17,575	\$14,745
<b>Race</b>						
Black	\$9,967	\$9,814	\$10,354	\$11,135	\$12,820	\$10,897
White	\$11,975	\$13,284	\$13,930	\$15,789	\$17,388	\$14,398
Other	\$13,166	\$13,796	\$12,052	\$15,734	\$18,722	\$14,574
<b>Race &amp; Gender</b>						
Black, Female	\$8,470	\$8,664	\$9,802	\$9,656	\$12,148	\$9,884
Black, Male	\$11,329	\$10,751	\$11,031	\$12,384	\$13,855	\$11,923
White, Female	\$7,663	\$9,683	\$9,739	\$10,676	\$12,618	\$10,201
White, Male	\$15,131	\$16,383	\$16,489	\$18,711	\$21,439	\$17,642
Other, Female	\$14,128	\$13,079	\$11,347	\$12,454	\$14,477	\$13,245
Other, Male	\$12,028	\$17,852	\$12,995	\$21,361	\$23,673	\$18,086
<b>Other Demographics</b>						
1. Economically Disadvantaged	\$10,642	\$12,591	\$11,669	\$11,884	\$14,665	\$12,698
2. Children with Disabilities	\$11,328	\$13,685	\$13,828	\$15,795	\$13,846	\$13,798
3. English learner	---	---	\$15,857	\$14,303	\$26,707	\$17,699
4. Homeless	\$7,687	\$10,231	\$9,116	\$11,548	\$16,999	\$11,376
<b>Ecosystem of School</b>						
Ecosystem 1	\$9,149	\$10,473	\$11,191	\$11,507	\$13,105	\$11,182
Ecosystem 2	\$12,399	\$13,576	\$12,011	\$14,293	\$17,690	\$13,789
Ecosystem 3	\$7,164	\$8,285	\$8,114	\$9,399	\$11,512	\$9,142
Ecosystem 4	\$9,954	\$11,602	\$11,772	\$12,831	\$15,002	\$12,176
Ecosystem 5	\$10,055	\$10,969	\$11,561	\$11,692	\$14,206	\$11,908
Ecosystem 6	\$12,141	\$13,200	\$13,055	\$14,161	\$14,175	\$13,548
Ecosystem 7	\$11,339	\$11,317	\$11,669	\$12,566	\$13,793	\$12,384
Ecosystem 8	\$10,328	\$10,928	\$12,539	\$13,214	\$14,621	\$12,468
<b>WIOA Region of School</b>						
Delta	\$8,491	\$8,449	\$9,064	\$9,857	\$12,182	\$9,857
MS Partnership	\$11,699	\$13,303	\$11,950	\$13,740	\$16,750	\$13,402
South Central	\$10,334	\$11,010	\$11,569	\$12,048	\$14,081	\$12,093
Twin Districts	\$11,259	\$11,312	\$12,578	\$13,532	\$14,553	\$12,847
<b>Industry</b>						
Accommodation/Leisure	\$8,222	\$8,820	\$9,346	\$9,758	\$12,039	\$9,793
Administrative and Waste Services	\$11,842	\$13,261	\$9,497	\$12,754	\$14,039	\$12,035
Construction	\$20,580	\$23,226	\$23,864	\$22,675	\$27,597	\$23,588
Educational Services	\$9,553	\$13,869	\$6,714	\$9,297	\$18,986	\$11,429
Financial Activities	\$16,857	\$15,207	\$15,827	\$15,485	\$15,407	\$15,485
Health Care and Social Assistance	\$11,918	\$12,042	\$12,110	\$11,607	\$12,139	\$11,931
Information	\$11,504	---	---	\$8,619	\$6,717	\$9,673
Management of Companies and Enterprises	\$10,356	\$12,931	\$9,344	---	\$10,724	\$10,654
Manufacturing	\$18,770	\$19,926	\$19,768	\$21,720	\$23,428	\$20,726
Natural Resources	\$19,516	\$30,195	\$17,875	\$17,610	\$28,694	\$22,409
Other Services (except Public Administration)	\$15,131	\$12,464	\$16,198	\$17,640	\$20,299	\$15,904
Professional, Scientific, and Technical Services	\$13,295	\$12,895	\$12,723	\$15,605	\$17,972	\$14,310
Public Administration	\$18,194	\$22,355	\$13,907	\$19,021	\$23,932	\$19,799
Transportation and Warehousing	\$12,170	\$14,376	\$11,667	\$13,745	\$17,035	\$14,069
Utilities	---	---	---	---	---	---

**Table 28 Continued on Next Page**

**Table 28 Continued**

Wholesale/Retail Trade	\$10,018	\$10,117	\$12,940	\$13,039	\$14,241	\$12,346
Industry not reported	---	---	\$16,000	---	---	---
<b>Data after this point will not average to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	\$12,646	\$13,515	\$14,208	\$15,679	\$17,726	\$14,732
2. Architecture and Construction	\$12,396	\$13,820	\$12,951	\$15,312	\$17,965	\$14,264
3. Arts, A/V Technology, and Communications	\$10,366	\$8,759	\$9,505	\$11,558	\$13,446	\$11,008
4. Business, Marketing, and Finance	\$9,278	\$10,307	\$11,076	\$10,597	\$13,295	\$10,860
5. Education and Training	\$7,447	\$9,969	\$8,482	\$9,847	\$11,761	\$9,941
6. Health Science	\$7,456	\$8,604	\$10,296	\$9,033	\$11,634	\$9,679
7. Hospitality and Tourism	\$10,228	\$10,032	\$11,561	\$11,082	\$12,988	\$11,271
8. Human Services	\$8,203	\$8,895	\$8,995	\$10,203	\$11,318	\$9,643
9. Information Technology	\$12,305	\$8,547	\$14,477	\$11,514	\$11,226	\$11,398
10. Law, Public Safety, Corrections, and Security	\$10,857	\$12,062	\$11,027	\$12,902	\$12,946	\$12,278
11. Manufacturing	\$15,222	\$16,500	\$15,162	\$17,369	\$19,719	\$17,124
12. Science, Technology, Engineering, and Mathematics	\$10,869	\$10,636	\$11,319	\$12,120	\$14,408	\$11,871
13. Transportation, Distribution, and Logistics	\$13,202	\$14,995	\$13,820	\$15,832	\$20,640	\$15,343

**TABLE 29: AVERAGE ANNUALIZED EARNINGS OF EMPLOYED K-12 CTE CONCENTRATORS;  
EARNINGS OF K-12 CTE CONCENTRATORS WHO ARE EMPLOYED WITHIN ONE YEAR OF K-12  
GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>\$11,448</b>	<b>\$11,633</b>	<b>\$12,751</b>	<b>\$13,564</b>	<b>\$14,926</b>	<b>\$13,032</b>
<b>Gender</b>						
Female	\$8,016	\$9,634	\$11,013	\$10,278	\$12,341	\$10,439
Male	\$13,729	\$13,758	\$14,670	\$16,270	\$18,392	\$15,474
<b>Race</b>						
Black	\$10,389	\$9,773	\$11,087	\$11,357	\$12,755	\$11,269
White	\$12,282	\$13,263	\$15,142	\$16,650	\$17,802	\$15,147
Other	\$13,611	\$15,010	\$12,214	\$15,434	\$18,331	\$15,120
<b>Race &amp; Gender</b>						
Black, Female	\$8,656	\$9,358	\$10,890	\$9,842	\$11,654	\$10,224
Black, Male	\$12,434	\$10,059	\$11,161	\$12,996	\$13,913	\$12,192
White, Female	\$7,497	\$9,832	\$10,999	\$11,268	\$12,728	\$10,535
White, Male	\$15,549	\$16,490	\$17,528	\$18,969	\$22,366	\$18,225
Other, Female	\$13,528	\$13,079	\$11,964	\$12,108	\$13,597	\$13,079
Other, Male	\$13,633	\$18,861	\$12,298	\$21,624	\$24,611	\$18,636
<b>Other Demographics</b>						
1. Economically Disadvantaged	\$10,497	\$11,660	\$13,203	\$12,831	\$15,651	\$13,208
2. Children with Disabilities	\$10,847	\$13,585	\$15,464	\$15,672	\$14,362	\$14,485
3. English learner	---	---	\$16,751	\$12,251	\$27,934	\$18,709
4. Homeless	\$9,697	\$11,624	\$11,573	\$12,084	\$16,355	\$11,813
<b>Ecosystem of School</b>						
Ecosystem 1	\$8,580	\$11,859	\$12,919	\$12,807	\$12,904	\$12,213
Ecosystem 2	\$13,250	\$13,145	\$13,593	\$16,131	\$18,265	\$14,509
Ecosystem 3	\$8,060	\$8,589	\$8,264	\$9,088	\$10,951	\$9,254
Ecosystem 4	\$11,154	\$13,155	\$13,965	\$15,519	\$16,595	\$13,942
Ecosystem 5	\$10,398	\$11,480	\$11,795	\$11,610	\$13,946	\$12,108
Ecosystem 6	\$12,870	\$13,200	\$14,075	\$13,560	\$16,177	\$13,820
Ecosystem 7	\$11,102	\$12,375	\$11,669	\$13,313	\$15,750	\$13,184
Ecosystem 8	\$11,358	\$10,844	\$13,829	\$14,242	\$14,752	\$12,687
<b>WIOA Region of School</b>						
Delta	\$8,364	\$10,041	\$10,426	\$9,842	\$11,687	\$10,192
MS Partnership	\$12,384	\$13,153	\$13,688	\$15,659	\$17,507	\$14,356
South Central	\$10,473	\$11,564	\$11,732	\$12,215	\$14,302	\$12,416
Twin Districts	\$11,699	\$11,253	\$13,829	\$13,944	\$15,344	\$13,108
<b>Industry</b>						
Accommodation/Leisure	\$7,545	\$9,155	\$9,679	\$9,698	\$11,739	\$9,866
Administrative and Waste Services	\$14,071	\$13,138	\$10,252	\$13,339	\$13,430	\$12,753
Construction	\$22,419	\$23,904	\$26,885	\$22,729	\$28,269	\$24,184
Educational Services	---	\$15,689	\$29,380	---	\$10,808	\$13,896
Financial Activities	---	\$14,026	\$16,476	\$18,462	\$15,407	\$17,124
Health Care and Social Assistance	\$12,358	\$10,935	\$12,630	\$9,974	\$12,058	\$11,724
Information	\$11,504	---	---	---	\$8,702	---
Management of Companies and Enterprises	\$10,584	\$12,931	\$10,182	---	---	\$11,034
Manufacturing	\$20,887	\$19,385	\$22,123	\$24,138	\$25,548	\$22,057
Natural Resources	\$18,648	\$31,050	\$17,353	\$29,876	\$28,040	\$26,007
Other Services (except Public Administration)	\$15,085	\$13,225	\$16,999	\$18,128	\$23,289	\$16,551
Professional, Scientific, and Technical Services	\$13,295	\$13,215	\$14,151	\$16,320	\$20,302	\$15,342
Public Administration	\$19,477	\$22,476	\$13,907	\$22,391	\$23,000	\$20,989

*Table 29 Continued on Next Page*

**Table 29 Continued**

Transportation and Warehousing	\$12,820	\$11,660	\$10,436	\$14,509	\$17,279	\$14,382
Utilities	---	---	---	---	---	---
Wholesale/Retail Trade	\$10,365	\$10,062	\$13,475	\$14,925	\$14,766	\$12,858
Industry not reported	---	---	---	---	---	---
<b>Data after this point will not average to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	\$13,714	\$13,515	\$16,672	\$16,952	\$20,026	\$15,629
2. Architecture and Construction	\$11,704	\$13,819	\$12,400	\$16,420	\$18,331	\$14,499
3. Arts, A/V Technology, and Communications	\$9,675	\$9,651	\$10,064	\$12,132	\$13,307	\$11,493
4. Business, Marketing, and Finance	\$10,594	\$9,972	\$12,684	\$11,303	\$12,981	\$11,580
5. Education and Training	\$7,319	\$9,995	\$11,367	\$9,077	\$10,812	\$9,824
6. Health Science	\$6,860	\$8,057	\$11,482	\$8,887	\$11,062	\$9,301
7. Hospitality and Tourism	\$10,388	\$10,742	\$11,876	\$11,629	\$12,755	\$11,550
8. Human Services	\$8,580	\$9,912	\$8,783	\$11,135	\$11,318	\$10,208
9. Information Technology	\$15,918	\$8,664	\$14,066	\$8,224	\$11,963	\$11,922
10. Law, Public Safety, Corrections, and Security	\$10,496	\$10,936	\$12,494	\$12,637	\$14,112	\$12,439
11. Manufacturing	\$16,045	\$15,401	\$16,023	\$17,622	\$21,356	\$17,970
12. Science, Technology, Engineering, and Mathematics	\$11,547	\$11,066	\$11,024	\$12,221	\$14,158	\$12,565
13. Transportation, Distribution, and Logistics	\$13,838	\$15,001	\$15,297	\$16,351	\$21,147	\$16,379



**TABLE 30: WORKFORCE ALIGNMENT OF K-12 CTE PARTICIPANTS;  
NUMBER OF K-12 CTE PARTICIPANTS WHO ARE EMPLOYED IN AN ALIGNED INDUSTRY  
WITHIN ONE YEAR OF K-12 GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>693</b>	<b>754</b>	<b>733</b>	<b>926</b>	<b>925</b>	<b>806</b>
<b>Gender</b>						
Female	209	246	243	336	339	275
Male	484	508	490	590	586	532
<b>Race</b>						
Black	303	330	325	453	447	372
White	373	404	370	443	439	406
Other	17	20	38	30	39	29
<b>Race &amp; Gender</b>						
Black, Female	118	137	127	192	195	154
Black, Male	185	193	198	261	252	218
White, Female	89	99	97	135	132	110
White, Male	284	305	273	308	307	295
Other, Female	<10	10	19	<10	12	10
Other, Male	15	10	19	21	27	18
<b>Other Demographics</b>						
1. Economically Disadvantaged	129	170	183	302	356	228
2. Children with Disabilities	21	23	32	51	43	34
3. English learner	<10	<10	10	<10	10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	24	31	27	32	35	30
Ecosystem 2	149	140	140	161	154	149
Ecosystem 3	33	34	37	45	48	39
Ecosystem 4	65	79	104	132	103	97
Ecosystem 5	91	111	91	138	141	114
Ecosystem 6	93	104	126	130	115	114
Ecosystem 7	46	47	38	56	72	52
Ecosystem 8	192	208	170	232	257	212
<b>WIOA Region of School</b>						
Delta	57	65	64	77	83	69
MS Partnership	214	219	244	293	257	245
South Central	137	158	129	194	213	166
Twin Districts	285	312	296	362	372	325
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	92	81	86	103	96	92
2. Architecture and Construction	39	42	34	35	57	41
3. Arts, A/V Technology, and Communications	<10	<10	<10	<10	<10	<10
4. Business, Marketing, and Finance	113	126	83	94	107	105
5. Education and Training	<10	<10	<10	<10	<10	<10
6. Health Science	18	37	31	44	43	35
7. Hospitality and Tourism	139	146	168	237	217	181
8. Human Services	14	10	12	18	30	17
9. Information Technology	<10	<10	<10	<10	<10	<10
10. Law, Public Safety, Corrections, and Security	22	19	24	29	37	26
11. Manufacturing	65	71	85	109	108	88
12. Science, Technology, Engineering, and Mathematics	32	53	49	59	67	52
13. Transportation, Distribution, and Logistics	170	183	175	208	169	181

**TABLE 31: WORKFORCE ALIGNMENT OF K-12 CTE CONCENTRATORS;  
NUMBER OF K-12 CTE CONCENTRATORS WHO ARE EMPLOYED IN AN ALIGNED INDUSTRY WITHIN ONE  
YEAR OF K-12 GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>385</b>	<b>452</b>	<b>453</b>	<b>531</b>	<b>564</b>	<b>477</b>
<b>Gender</b>						
Female	110	142	140	205	199	159
Male	275	310	313	326	365	318
<b>Race</b>						
Black	157	191	171	255	253	205
White	222	252	256	260	288	256
Other	<10	<10	26	16	23	16
<b>Race &amp; Gender</b>						
Black, Female	63	77	73	118	112	89
Black, Male	94	114	98	137	141	117
White, Female	46	60	57	82	79	65
White, Male	176	192	199	178	209	191
Other, Female	<10	<10	10	<10	<10	<10
Other, Male	<10	<10	16	11	15	10
<b>Other Demographics</b>						
1. Economically Disadvantaged	67	103	112	173	209	133
2. Children with Disabilities	10	14	18	26	27	19
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	<10	<10	<10	<10	<10
<b>Ecosystem of School</b>						
Ecosystem 1	15	18	16	15	20	17
Ecosystem 2	85	78	83	82	86	83
Ecosystem 3	18	20	22	26	30	23
Ecosystem 4	31	53	53	57	41	47
Ecosystem 5	43	70	48	91	89	68
Ecosystem 6	56	57	85	81	78	71
Ecosystem 7	26	27	19	31	51	31
Ecosystem 8	111	129	127	148	169	137
<b>WIOA Region of School</b>						
Delta	33	38	38	41	50	40
MS Partnership	116	131	136	139	127	130
South Central	69	97	67	122	140	99
Twin Districts	167	186	212	229	247	208
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	53	49	54	50	50	51
2. Architecture and Construction	27	28	28	25	43	30
3. Arts, A/V Technology, and Communications	<10	<10	<10	<10	<10	<10
4. Business, Marketing, and Finance	41	52	44	54	69	52
5. Education and Training	<10	<10	<10	<10	<10	<10
6. Health Science	15	26	19	25	27	22
7. Hospitality and Tourism	79	88	109	137	123	107
8. Human Services	<10	<10	11	13	21	12
9. Information Technology	<10	<10	<10	<10	<10	<10
10. Law, Public Safety, Corrections, and Security	<10	<10	11	15	16	12
11. Manufacturing	43	41	62	70	84	60
12. Science, Technology, Engineering, and Mathematics	15	32	16	20	26	22
13. Transportation, Distribution, and Logistics	95	119	102	124	102	108

**TABLE 32: RECEIPT OF PUBLIC ASSISTANCE FOR K-12 CTE PARTICIPANTS;  
NUMBER OF K-12 CTE PARTICIPANTS RECEIVE PUBLIC ASSISTANCE BENEFITS  
WITHIN ONE YEAR OF GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>1,089</b>	<b>1,130</b>	<b>1,436</b>	<b>1,762</b>	<b>1,274</b>	<b>1,338</b>
<b>Gender</b>						
Female	522	529	688	875	639	651
Male	567	601	748	887	635	688
<b>Race</b>						
Black	779	830	950	1,317	1,004	976
White	287	268	429	391	227	320
Other	23	32	57	54	43	42
<b>Race &amp; Gender</b>						
Black, Female	372	408	469	683	522	491
Black, Male	407	422	481	634	482	485
White, Female	139	106	186	164	101	139
White, Male	148	162	243	227	126	181
Other, Female	11	15	33	28	16	21
Other, Male	12	17	24	26	27	21
<b>Other Demographics</b>						
1. Economically Disadvantaged	262	296	432	652	548	438
2. Children with Disabilities	26	24	57	79	93	56
3. English learner	<10	<10	10	<10	<10	<10
4. Homeless	14	18	21	36	22	22
<b>Ecosystem of School</b>						
Ecosystem 1	75	74	79	104	79	82
Ecosystem 2	124	104	201	234	116	156
Ecosystem 3	141	141	157	182	182	161
Ecosystem 4	134	126	180	219	143	160
Ecosystem 5	178	176	197	309	232	218
Ecosystem 6	125	156	193	239	165	176
Ecosystem 7	95	111	136	163	147	130
Ecosystem 8	217	242	293	312	210	255
<b>WIOA Region of School</b>						
Delta	216	215	236	286	261	243
MS Partnership	258	230	381	453	259	316
South Central	273	287	333	472	379	349
Twin Districts	342	398	486	551	375	430
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	191	179	218	278	206	214
2. Architecture and Construction	169	159	207	243	158	187
3. Arts, A/V Technology, and Communications	29	37	57	74	71	54
4. Business, Marketing, and Finance	154	210	169	201	133	173
5. Education and Training	62	56	86	100	90	79
6. Health Science	128	122	157	220	151	156
7. Hospitality and Tourism	78	81	132	169	100	112
8. Human Services	72	81	100	156	97	101
9. Information Technology	20	14	23	18	35	22
10. Law, Public Safety, Corrections, and Security	35	41	91	102	87	71
11. Manufacturing	94	98	145	177	128	128

*Table 32 Continued on Next Page*

**Table 32 Continued**

12. Science, Technology, Engineering, and Mathematics	44	57	85	85	61	66
13. Transportation, Distribution, and Logistics	140	151	162	177	106	147
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>Public Assistance</b>						
SNAP	1,080	1,118	1,018	1,279	1,244	1,148
TANF	16	21	14	11	10	14
UI	14	15	667	781	48	305

**TABLE 33: RECEIPT OF PUBLIC ASSISTANCE FOR K-12 CTE CONCENTRATORS;  
NUMBER OF K-12 CTE CONCENTRATORS WHO RECEIVE PUBLIC ASSISTANCE BENEFITS  
WITHIN ONE YEAR OF GRADUATION**

	Year Student Graduated from K-12					
	AY2017	AY2018	AY2019	AY2020	AY2021	Average
<b>Total</b>	<b>647</b>	<b>689</b>	<b>885</b>	<b>1,034</b>	<b>767</b>	<b>804</b>
<b>Gender</b>						
Female	289	324	413	519	394	388
Male	358	365	472	515	373	417
<b>Race</b>						
Black	452	489	567	754	599	572
White	184	178	280	248	151	208
Other	11	22	38	32	17	24
<b>Race &amp; Gender</b>						
Black, Female	204	243	281	402	323	291
Black, Male	248	246	286	352	276	282
White, Female	79	71	112	100	68	86
White, Male	105	107	168	148	83	122
Other, Female	<10	10	20	17	<10	11
Other, Male	<10	12	18	15	14	13
<b>Other Demographics</b>						
1. Economically Disadvantaged	157	180	262	393	330	264
2. Children with Disabilities	20	13	31	39	61	33
3. English learner	<10	<10	<10	<10	<10	<10
4. Homeless	<10	12	12	19	14	13
<b>Ecosystem of School</b>						
Ecosystem 1	37	43	50	46	50	45
Ecosystem 2	72	61	114	111	65	85
Ecosystem 3	95	85	104	122	124	106
Ecosystem 4	73	81	97	113	66	86
Ecosystem 5	94	101	116	201	152	133
Ecosystem 6	71	78	127	132	81	98
Ecosystem 7	63	74	75	96	96	81
Ecosystem 8	142	166	202	213	133	171
<b>WIOA Region of School</b>						
Delta	132	128	154	168	174	151
MS Partnership	145	142	211	224	131	171
South Central	157	175	191	297	248	214
Twin Districts	213	244	329	345	214	269
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>CTE Clusters</b>						
1. Agriculture, Food, and Natural Resources	105	86	115	105	84	99
2. Architecture and Construction	102	103	120	147	94	113
3. Arts, A/V Technology, and Communications	20	20	33	36	41	30
4. Business, Marketing, and Finance	59	95	83	106	71	83
5. Education and Training	27	32	53	67	59	48
6. Health Science	75	74	88	122	92	90
7. Hospitality and Tourism	42	46	81	85	56	62
8. Human Services	46	59	72	103	70	70
9. Information Technology	<10	<10	15	10	12	10
10. Law, Public Safety, Corrections, and Security	20	20	38	48	45	34
11. Manufacturing	49	59	95	104	71	76

*Table 33 Continued on Next Page*

**Table 33 Continued**

12. Science, Technology, Engineering, and Mathematics	27	32	30	33	27	30
13. Transportation, Distribution, and Logistics	77	85	88	90	59	80
<b>Data after this point will not sum to total row due to students enrolling in multiple programs</b>						
<b>Public Assistance</b>						
SNAP	641	685	620	749	749	689
TANF	<10	15	11	<10	<10	<10
UI	<10	<10	411	466	32	184

# APPENDIX A: K-12 CAREER AND TECHNICAL EDUCATION PROGRAM ENROLLMENT

**TABLE 34: UNDUPLICATED COUNT OF K-12 CAREER AND TECHNICAL EDUCATION PROGRAM  
ENROLLMENT IN AY 2023-2024**

Program Name	GRADE				Grand Total
	9	10	11	12	
Advanced Manufacturing	<10	49	100	<10	171
Aerial Systems	33	40	41	17	131
Ag & Food Products Processing	13	<10	<10	<10	23
Ag/Cons/Mfg/Transp CTE Pathway	<10	<10	268	178	609
Agricultural Mechanics	<10	65	32	<10	120
Agricultural Power Machinery Operat	<10	18	45	26	89
Agriculture and Natural Resources	151	342	316	129	938
Agriculture, General	1,565	1,075	609	248	3,497
Aquaculture Operations & Prod. Mgt.	<10	37	42	<10	90
Arts and Humanities CTE Pathway	<10	<10	76	38	149
Athletic Training (Sports Medicine)	<10	17	159	110	286
Automotive Body Repair	<10	133	116	<10	297
Automotive Mechanics Technology	96	514	643	215	1,468
Broadcast Journalism	15	45	39	30	129
Business CTE Pathway	<10	94	107	74	275
Business/Commerce, General	343	717	775	265	2,100
Carpentry/Carpenter	<10	<10	411	284	794
Child Care Provider/Assistant	110	461	456	145	1,172
Computer and Information Sciences	113	190	205	76	584
Computer Programming/Specific Apps	<10	15	29	19	63
Computer Science and Engineering	4,687	799	529	457	6,472
Construction Trades, General	272	758	522	42	1,594
Cooking & Related Culinary Arts	208	862	868	361	2,299
Cosmetology/Cosmetologist, General	22	48	95	30	195
Cosmo, Barber/Styling, and Nails	<10	<10	<10	<10	11
Cyber Foundations I	52	27	61	76	216
Cyber Foundations II	37	21	30	20	108
Diesel Equipment Repair & Services	<10	26	42	<10	85
Digital Communication and Media	158	315	360	130	963
Drafting & Design Technology	28	99	87	34	248
Education CTE Pathway (Dual Credit)	<10	48	66	63	177
Electrician	<10	<10	29	<10	51
Entrepreneurship	155	59	43	20	277
Exploring Computer Science	3,099	790	570	395	4,854
Family & Consumer Sciences	8,300	7,092	4,284	3,019	22,695
Fire Science/Fire-Fighting	<10	<10	22	<10	34
Forest Technology/Technician	38	66	97	32	233
Furniture Design & Manufacturing	<10	<10	<10	<10	17
Game and Interactive Media Design	13	37	47	34	131
General Mechanics and Repairers	25	71	60	<10	160
Health Sci. & Nursing CTE Pathway	<10	116	158	67	341
Health Services Allied Health, Gen.	491	2,094	2,373	1,085	6,043
Heating & Air Conditioning & Refrig.	<10	59	56	<10	142
Horticulture Service Op & Mgmt.	22	47	62	13	144

*Table 34 Continued on Next Page*

**Table 34 Continued**

Hospitality Administration/Mgt, Gen	<10	19	13	<10	49
Hospitality/Human Serv. CTE Pathway	<10	48	53	30	131
Industrial Mechanics & Maint. Tech.	<10	13	40	35	88
Instrumentation Tech	<10	14	19	12	45
Keystone - Personal Decision-Making	2,400	28	<10	<10	2,451
Law and Public Safety	224	713	662	227	1,826
Machine Shop Technology/Assistant	<10	19	26	13	58
Mechanical Engineering	71	111	146	105	433
Medical Lab Tech	<10	40	36	53	129
Medical Records Tech	13	<10	11	<10	35
Metal Fabrication	26	74	128	45	273
Plastics Engineering Technology	<10	43	55	<10	131
Public Safety/Admin. CTE Pathway	<10	<10	18	30	48
STEM CTE Pathway	<10	<10	21	73	94
Teacher Education	295	755	653	263	1,966
Technology and Engineering Princip	186	364	406	160	1116
Transportation Logistics	<10	<10	21	<10	41
Welding Technology/Welder	98	637	801	290	1,826
Work-Based Learning	<10	<10	979	2,423	3,417
Grand Total	23,439	20,475	19,055	11,663	74,632



## APPENDIX B: NATIONAL CREDENTIAL ATTAINMENT OF K-12 CTE STUDENTS

**TABLE 35: NATIONAL CREDENTIAL ATTAINMENT OF K-12 CTE STUDENTS IN AY 2021-2022**

Credential Name	Course Taken	Total Tested	Total Passed	% Passed
ASE Automotive Service Tech Credentials <sup>1</sup>	Automotive Service Technology- Year 2	2,794	1,149	41.1%
ASE Diesel Service Tech Credentials <sup>2</sup>	Diesel Service Technician - Year 2	90	25	27.8%
ASE Collision Repair Tech Credentials <sup>3</sup>	Collision Repair Technician - Year 2	209	87	41.6%
Autodesk Certified User	Architecture and Drafting/Engineering	123	73	59.3%
Certified Logistic Associate	Fundamentals of Material Handling	11	<10	---
Certified Logistic Technician	Advanced Logistics and Supply Chain	<10	<10	---
Early Childhood Education	Early Childhood II	439	200	45.6%
Entrepreneurship and Small Business	Business, Marketing, and Finance II	556	276	49.6%
Exercise Science and Sports Medicine	Sports Medicine - Year 2	164	65	39.6%
Federal Aviation Administration (FAA) Airman Knowledge Test	Unmanned Aerial Systems II	<10	<10	---
National Health Science Assessment	Healthcare and Clinical Services - Year 2	1,830	1,123	61.4%
NCCER - MCEF Custom Core Test	Advanced Manufacturing I/Metal Fabrication I	291	162	55.7%
NCCER - MCEF Pre-Post Exam Level 2 Welding	Welding Third Year Dual Credit	12	12	100.0%
NCCER - Mississippi Pre-Post Construction Carpentry Year 1	Construction - Core	1,285	565	44.0%
NCCER - Mississippi Pre-Post Construction Carpentry Year 2	Carpentry	631	186	29.5%
NCCER - Mississippi Pre-Post Construction Electrical Year 1	Construction - Core	102	42	41.2%
NCCER - Mississippi Pre-Post Construction Electrical Year 2	Electrical	47	19	40.4%
NCCER - Mississippi Pre-Post HVAC Year 1	HVAC I	32	10	31.3%
NCCER - Mississippi Pre-Post HVAC Year 2	HVAC II	10	<10	---
NCCER - Mississippi Pre-Post Industrial Maintenance Electrical and Mechanical Year 1	Industrial Maintenance I	124	67	54.0%
NCCER - Mississippi Pre-Post Industrial Maintenance Electrical and Mechanical Year 2	Industrial Maintenance - Year 2	69	38	55.1%
NCCER - Mississippi Pre-Post Instrumentation Year 1	Instrumentation I	15	13	86.7%
NCCER - Mississippi Pre-Post Instrumentation Year 2	Instrumentation II	19	13	68.4%
NCCER - Mississippi Pre-Post Welding Year 1	Welding I	1,088	655	60.2%
NCCER - Mississippi Pre-Post Welding Year 2	Advanced Welding II	568	296	52.1%
NIMS Measurement, Materials, & Safety	Precision Machining II/Metal Fabrication II	161	58	36.0%
ServSafe Foundations of Restaurant Management	Culinary Arts II	560	167	29.8%
Solid Works Edu - CSWA Academic	Engineering II	355	69	19.4%
TestOut IT Fundamentals Pro Certification	Information Technology - Year 1	325	196	60.3%
TestOut Network Pro Certification	Information Technology - Year 2	150	78	52.0%
<b>Total</b>		<b>12,071</b>	<b>5,658</b>	<b>46.9%</b>

<sup>1</sup>ASE-Automotive Service Technology credential row includes Automatic Transmission & Transaxle (AT), Automobile Service Technology (AS), Brakes (BR), Electrical/Electronic Systems (EE), Engine Performance (EP), Engine Repair (ER), Heating & Air Conditioning (AC), Maintenance & Light Repair (MR), Manual Drive Train & Axles (MD), Suspension & Steering (SS).

<sup>2</sup>ASE Diesel Service Technology credentials include Diesel Engines (DE), Inspection, Maintenance & Minor Repair (IM), Truck Brakes (TB), Truck Electrical/Electronic Systems (TE), and Truck Suspension & Steering (TS).

<sup>3</sup>ASE Collision Repair Technology credentials includes Mechanical & Electrical Components (ME), Nonstructural Analysis & Damage Repair (NS), Painting & Refinishing (PR), and Structural Analysis & Damage Repair (SR).

*Note: The information for this table was contributed by the MSU Research and Curriculum Unit.*

## APPENDIX C: CTE COURSE CROSSWALK

**TABLE 36: COMMUNITY COLLEGE CTE CLUSTER CROSSWALK**

CIP Code	Course Title
<b>1. Agriculture, Food, and Natural Resources</b>	
010102	Agribusiness/Agricultural Business Operations
010201	Agricultural Mechanization, General
010299	Agricultural Mechanization, Other
010302	Animal/Livestock Husbandry and Production
010304	Crop Production
010601	Applied Horticulture/Horticulture Operations, General
010605	Landscaping and Groundskeeping
010607	Turf and Turfgrass Management
010907	Poultry Science
011105	Plant Protection and Integrated Pest Management
030511	Forest Technology/Technician
120506	Meat Cutting/Meat Cutter
510808	Veterinary/Animal Health Technology/Technician and Veterinary Assistant
<b>2. Architecture and Construction</b>	
150101	Architectural Engineering Technology/Technician
150303	Electrical, Electronic and Communications Engineering Technology
150305	Telecommunications Technology/Technician
151001	Construction Engineering Technology/Technician
151102	Surveying Technology/Surveying
151301	Drafting and Design Technology/Technician, General
430303	Utility Line Worker
450702	Geographic Information Science and Cartography
460101	Mason/Masonry
460201	Carpentry/Carpenter
460301	Electrical and Power Transmission Installation/Installer, General
460302	Electrician
460303	Lineworker
460401	Building/Property Maintenance
460503	Plumbing Technology/Plumber
460504	Well Drilling/Driller
470101	Electrical/Electronics Equipment Installation and Repair, General
470105	Industrial Electronics Technology/Technician
470201	Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology
490202	Construction/Heavy Equipment/Earthmoving Equipment Operation
521804	Selling Skills and Sales Operations
<b>3. Arts, A/V Technology, and Communications</b>	

**Table 36 Continued on Next Page**

**Table 36 Continued**

100201	Photographic and Film/Video Technology/Technician and Assistant
100202	Radio and Television Broadcasting Technology/Technician
100299	Audiovisual Communications Technologies/Technicians, Other
110801	Web Page, Digital/Multimedia and Information Resources Design
500409	Graphic Design
500411	Game and Interactive Media Design

**4. Business, Marketing, and Finance**

161603	Sign Language Interpretation and Translation
500408	Interior Designers
510707	Health Information/Medical Records Technology/Technician
510713	Medical Insurance Coding Specialist/Coder
510716	Medical Administrative/Executive Assistant and Medical Secretary
510799	Health and Medical Administrative Services, Other
520201	Business Administration and Management, General
520208	E-Commerce/Electronic Commerce
520302	Accounting Technology/Technician and Bookkeeping
520401	Administrative Assistant and Secretarial Science, General
520407	Business/Office Automation/Technology/Data Entry
520701	Entrepreneurship/Entrepreneurial Studies
520803	Banking and Financial Support Services
521401	Marketing/Marketing Management, General
521501	Real Estate
521902	Fashion Merchandising

**5. Education and Training**

No Alignment with Community College Academic Majors

**6. Health Science**

510601	Dental Assisting/Assistant
510602	Dental Hygiene/Hygienist
510801	Medical/Clinical Assistant
510803	Occupational Therapist Assistant
510805	Pharmacy Technician/Assistant
510806	Physical Therapy Technician/Assistant
510901	Cardiovascular Technology/Technologist
510904	Emergency Medical Technology/Technician (EMT Paramedic)
510908	Respiratory Care Therapy/Therapist
510909	Surgical Technology/Technologist
510910	Diagnostic Medical Sonography/Sonographer and Ultrasound Technician
510911	Radiologic Technology/Science - Radiographer
510917	Polysomnography
511004	Clinical/Medical Laboratory Technician
511801	Opticianry/Ophthalmic Dispensing Optician

**Table 36 Continued on Next Page**

**Table 36 Continued**

512299	Public Health, Other
513501	Massage Therapy/Therapeutic Massage
513901	Licensed Practical/Vocational Nurse Training
513902	Nursing Assistant/Aide and Patient Care Assistant/Aide

**7. Hospitality and Tourism**

120500	Culinary Arts and Related Services
120501	Baking and Pastry Arts/Baker/Pastry Chef
120508	Institutional Food Workers
520901	Hospitality Administration/Management, General
520903	Tourism and Travel Services Management

**8. Human Services**

120301	Funeral Service Technology
120402	Barbering/Barber
120409	Aesthetician/Esthetician and Skin Care Specialist
120410	Nail Technician/Specialist and Manicurist
120413	Cosmetology, Barber/Styling, and Nail Instructor
190709	Child Care Provider/Assistant

**9. Information Technology**

110201	Computer Programming/Programmer, General
110202	Computer Programming, Specific Applications
110802	Data Modeling/Warehousing and Database Administration
110901	Computer Systems Networking and Telecommunications
111003	Computer and Information Systems Security/Information Assurance
470104	Computer Installation and Repair Technology/Technician
520407	Business/Office Automation/Technology/Data Entry
521302	Business Statistics

**10. Law, Public Safety, Corrections, and Security**

030208	Natural Resources Law Enforcement and Protective Services
220302	Legal Assistant/Paralegal
220303	Court Reporting/Court Reporter
430199	Corrections and Criminal Justice, Other
430203	Fire Science/Fire-fighting
430106	Crime Scene Technician
439999	Homeland Security, Law Enforcement, Firefighting and Related

**11. Manufacturing**

141901	Mechanical Engineering
144201	Mechatronics, Robotics, and Automation Engineering
150404	Instrumentation Technology/Technician
150406	Automation Engineer Technology/Technician
150499	Electromechanical and Instrumentation and Maintenance Technology
150612	Industrial Technology/Technician
150613	Manufacturing Engineering Technology/Technician

**Table 36 Continued on Next Page**

**Table 36 Continued**

150699	Industrial Production Technologies/Technicians, Other
150701	Occupational Safety and Health Technology/Technician
150903	Petroleum Technology/Technician
190905	Clothing and Textile Service
460502	Pipefitting/Pipefitter and Sprinkler Fitter
469999	Construction Trades, Other
470303	Industrial Mechanics and Maintenance Technology
480501	Machine Tool Technology/Machinist
480508	Welding Technology/Welder
489999	Precision Production, Other

**12. Science, Technology, Engineering, and Mathematics**

110804	Modeling, Virtual Environments and Simulation
150201	Civil Engineering Technology/Technician
151001	Construction Engineering Technology/Technician
151501	Engineering/Industrial Management
490202	Construction/Heavy Equipment/Earthmoving Equipment Operation

**13. Transportation, Distribution, and Logistics**

430301	Homeland Security
470702	Hydrography Technology
470302	Heavy Equipment Maintenance Technology/Technician
470603	Autobody/Collision and Repair Technology/Technician
470604	Automobile/Automotive Mechanics Technology/Technician
470605	Diesel Mechanics Technology/Technician
470607	Aviation Maintenance Technology
470615	Engine Machinist
490101	Aeronautics/Aviation/Aerospace Science and Technology, General
490104	Aviation/Airway Management and Operations
490105	Air Traffic Controller
490205	Commercial Truck Driving
490399	Marine Transportation, Other
520203	Logistics, Materials, and Supply Chain Management
521907	Vehicle and Vehicle Parts and Accessories Marketing Operations

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**TABLE 37: UNIVERSITY CTE CLUSTER CROSSWALK**

CIP Code	Course Title
<b>1. Agriculture, Food, and Natural Resources</b>	
010000	Agriculture, Agriculture Operations, and Related Sciences
010101	Agricultural Business and Management, General
010102	Agribusiness/Agricultural Business Operations
010103	Agricultural Economics
010308	Agroecology and Sustainable Agriculture
010605	Landscaping and Groundskeeping
010901	Animal Sciences, General
010907	Poultry Science
011001	Food Science
011102	Agronomy and Crop Science
011103	Horticultural Science
030101	Natural Resources/Conservation, General
030502	Forest Sciences and Biology
030601	Wildlife, Fish and Wildlands Science and Management
040201	Architecture
040501	Interior Architecture
040601	Landscape Architecture
150101	Architectural Engineering Technology/Technician
150303	Electrical, Electronic and Communications Engineering Technology
150405	Robotics Technology/Technician
150612	Industrial Technology/Technician
150699	Industrial Production Technologies/Technicians, Other
151201	Computer Engineering Technology/Technician
490101	Aeronautics/Aviation/Aerospace Science and Technology, General
490102	Airline/Commercial/Professional Pilot and Flight Crew
522001	Construction Management
<b>2. Architecture and Construction</b>	
010000	Agriculture, Agriculture Operations, and Related Sciences
010101	Agricultural Business and Management, General
010102	Agribusiness/Agricultural Business Operations
010103	Agricultural Economics
010308	Agroecology and Sustainable Agriculture
010605	Landscaping and Groundskeeping
010901	Animal Sciences, General
010907	Poultry Science
011001	Food Science
011102	Agronomy and Crop Science
011103	Horticultural Science
030101	Natural Resources/Conservation, General

**Table 37 Continued on Next Page**

**Table 37 Continued**

030502	Forest Sciences and Biology
030601	Wildlife, Fish and Wildlands Science and Management
040201	Architecture
040501	Interior Architecture
040601	Landscape Architecture
150101	Architectural Engineering Technology/Technician
150303	Electrical, Electronic and Communications Engineering Technology
150405	Robotics Technology/Technician
150612	Industrial Technology/Technician
150699	Industrial Production Technologies/Technicians, Other
151201	Computer Engineering Technology/Technician
490101	Aeronautics/Aviation/Aerospace Science and Technology, General
490102	Airline/Commercial/Professional Pilot and Flight Crew
522001	Construction Management

**3. Arts, A/V Technology, and Communications**

090101	Speech Communication and Rhetoric
090102	Mass Communication/Media Studies
090401	Journalism
090702	Digital Communication and Media/Multimedia
090902	Public Relations/Image Management
090903	Advertising
160101	Foreign Languages and Literatures, General
160102	Linguistics
160301	Chinese Language and Literature
160501	German Language and Literature
160901	French Language and Literature
160905	Spanish Language and Literature
161200	Classics and Classical Languages, Literatures, and Linguistics
240101	Liberal Arts and Sciences/Liberal Studies
240102	General Studies
309999	Multi-/Interdisciplinary Studies, Other
380101	Philosophy
450101	Social Sciences, General
450201	Anthropology
450701	Geography
451101	Sociology
500101	Visual and Performing Arts, General
500102	Digital Arts
500301	Dance, General
500501	Drama and Dramatics/Theatre Arts, General
500703	Art History, Criticism and Conservation
500901	Music, General

**Table 37 Continued on Next Page**



**Table 37 Continued**

501003 Music Management

540101 History, General

**4. Business, Marketing, and Finance**

190901 Apparel and Textiles, General

450600 Economics

450901 International Relations and Affairs

520101 Business/Commerce, General

520201 Business Administration and Management, General

520301 Accounting

520701 Entrepreneurship/Entrepreneurial Studies

520801 Finance, General

521001 Human Resources Management/Personnel Administration, General

521101 International Business/Trade/Commerce

521201 Management Information Systems, General

521401 Marketing/Marketing Management, General

521499 Marketing, Other

521501 Real Estate

521701 Insurance

521902 Fashion Merchandising

529999 Business, Management, Marketing, and Related Support Service

**5. Education and Training**

050102 American/United States Studies/Civilization

050122 Regional Studies (US, Canadian, Foreign)

050201 African-American/Black Studies

050207 Women's Studies

131001 Special Education and Teaching, General

131003 Education/Teaching of Individuals with Hearing Impairments Including Deafness

131202 Elementary Education and Teaching

131205 Secondary Education and Teaching

131209 Kindergarten/Preschool Education and Teaching

131301 Agricultural Teacher Education

131303 Business Teacher Education

131305 English/Language Arts Teacher Education

131311 Mathematics Teacher Education

131312 Music Teacher Education

131314 Physical Education Teaching and Coaching

131316 Science Teacher Education/General Science Teacher Education

131317 Social Science Teacher Education

131399 Teacher Education and Professional Development, Specific Subject Areas

139999 Education, Other

190101 Family and Consumer Sciences/Human Sciences, General

**Table 37 Continued on Next Page**

**Table 37 Continued**

190701	Human Development and Family Studies, General
190704	Family Systems
190706	Child Development
230101	English Language and Literature, General
250101	Library and Information Science
310501	Health and Physical Education/Fitness, General
310504	Sport and Fitness Administration/Management
310505	Kinesiology and Exercise Science
422806	Educational Psychology

**6. Health Science**

190101	Family and Consumer Sciences/Human Sciences, General
190501	Foods, Nutrition, and Wellness Studies, General
510000	Health Professions and Related Programs
510201	Communication Sciences and Disorders, General
510203	Speech-Language Pathology/Pathologist
510204	Audiology/Audiologist and Speech-Language Pathology
510602	Dental Hygiene/Hygienist
510701	Health/Health Care Administration/Management
510706	Health Information/Medical Records Administration
510808	Veterinary/Animal Health Technology/Technician and Veterinary Assistant
510911	Radiologic Technology/Science - Radiographer
510913	Athletic Training/Trainer
511005	Clinical Laboratory Science/Medical Technology/Technologist
511007	Histologic Technology/Histotechnologist
512005	Natural Products Chemistry and Pharmacognosy
512010	Pharmaceutical Sciences
512201	Public Health, General
512202	Environmental Health
512207	Public Health Education and Promotion
513101	Dietetics/Dietitian
513801	Registered Nursing/Registered Nurse
513899	Registered Nursing, Nursing Administration, Nursing Research
519999	Health Professions and Related Clinical Sciences, Other

**7. Hospitality and Tourism**

120509	Culinary Science/Culinology
120599	Culinary Arts and Related Services, Other
310101	Parks, Recreation and Leisure Studies
310301	Parks, Recreation and Leisure Facilities Management, General
420101	Psychology, General
440701	Social Work
520901	Hospitality Administration/Management, General
520904	Hotel/Motel Administration/Management

**Table 37 Continued on Next Page**

**Table 37 Continued**

**8. Human Services**

120509	Culinary Science/Culinology
120599	Culinary Arts and Related Services, Other
310101	Parks, Recreation and Leisure Studies
310301	Parks, Recreation and Leisure Facilities Management, General
420101	Psychology, General
440701	Social Work
520901	Hospitality Administration/Management, General
520904	Hotel/Motel Administration/Management

**9. Information Technology**

110101	Computer and Information Sciences, General
110301	Data Processing and Data Processing Technology/Technician
111002	System, Networking, and LAN/WAN Management/Manager
111003	Computer and Information Systems Security/Information Assurance
140101	Engineering, General
140201	Aerospace, Aeronautical and Astronautical/Space Engineering
140501	Bioengineering and Biomedical Engineering
140701	Chemical Engineering
140801	Civil Engineering, General
140901	Computer Engineering, General
141001	Electrical and Electronics Engineering
141901	Mechanical Engineering
142401	Ocean Engineering
142501	Petroleum Engineering
143201	Polymer/Plastics Engineering
143501	Industrial Engineering
143901	Geological/Geophysical Engineering
149999	Engineering, Other
260101	Biology/Biological Sciences, General
260202	Biochemistry
260503	Medical Microbiology and Bacteriology
261302	Marine Biology and Biological Oceanography
270101	Mathematics, General
270501	Statistics, General
299999	Military Technologies and Applied Sciences, Other
300101	Biological and Physical Sciences
301101	Gerontology
400101	Physical Sciences
400401	Atmospheric Sciences and Meteorology, General
400501	Chemistry, General
400510	Forensic Chemistry
400599	Chemistry, Other

**Table 37 Continued on Next Page**

**Table 37 Continued**

400601	Geology/Earth Science, General
400607	Oceanography, Chemical and Physical
400801	Physics, General
419999	Science Technologies/Technicians, Other

**10. Law, Public Safety, Corrections, and Security**

220001	Pre-Law Studies
220302	Legal Assistant/Paralegal
430103	Criminal Justice/Law Enforcement Administration
430104	Criminal Justice/Safety Studies
430106	Forensic Science and Technology
440401	Public Administration
440501	Public Policy Analysis, General
450401	Criminology
451001	Political Science and Government, General
451201	Urban Studies/Affairs

**11. Manufacturing**

010000	Agriculture, Agriculture Operations, and Related Sciences
010101	Agricultural Business and Management, General
010102	Agribusiness/Agricultural Business Operations
010103	Agricultural Economics
010308	Agroecology and Sustainable Agriculture
010605	Landscaping and Groundskeeping
010901	Animal Sciences, General
010907	Poultry Science
011001	Food Science
011102	Agronomy and Crop Science
011103	Horticultural Science
030101	Natural Resources/Conservation, General
030502	Forest Sciences and Biology
030601	Wildlife, Fish and Wildlands Science and Management
040201	Architecture
040501	Interior Architecture
040601	Landscape Architecture
150101	Architectural Engineering Technology/Technician
150303	Electrical, Electronic and Communications Engineering Technology
150405	Robotics Technology/Technician
150612	Industrial Technology/Technician
150699	Industrial Production Technologies/Technicians, Other
151201	Computer Engineering Technology/Technician
490101	Aeronautics/Aviation/Aerospace Science and Technology, General
490102	Airline/Commercial/Professional Pilot and Flight Crew
522001	Construction Management

**Table 37 Continued on Next Page**

**Table 37 Continued**

**12. Science, Technology, Engineering, and Mathematics**

110101	Computer and Information Sciences, General
110301	Data Processing and Data Processing Technology/Technician
111002	System, Networking, and LAN/WAN Management/Manager
111003	Computer and Information Systems Security/Information Assura
140101	Engineering, General
140201	Aerospace, Aeronautical and Astronautical/Space Engineering
140501	Bioengineering and Biomedical Engineering
140701	Chemical Engineering
140801	Civil Engineering, General
140901	Computer Engineering, General
141001	Electrical and Electronics Engineering
141901	Mechanical Engineering
142401	Ocean Engineering
142501	Petroleum Engineering
143201	Polymer/Plastics Engineering
143501	Industrial Engineering
143901	Geological/Geophysical Engineering
149999	Engineering, Other
260101	Biology/Biological Sciences, General
260202	Biochemistry
260503	Medical Microbiology and Bacteriology
261302	Marine Biology and Biological Oceanography
270101	Mathematics, General
270501	Statistics, General
299999	Military Technologies and Applied Sciences, Other
300101	Biological and Physical Sciences
301101	Gerontology
400101	Physical Sciences
400401	Atmospheric Sciences and Meteorology, General
400501	Chemistry, General
400510	Forensic Chemistry
400599	Chemistry, Other
400601	Geology/Earth Science, General
400607	Oceanography, Chemical and Physical
400801	Physics, General
419999	Science Technologies/Technicians, Other

**13. Transportation, Distribution, and Logistics**

010000	Agriculture, Agriculture Operations, and Related Sciences
010101	Agricultural Business and Management, General
010102	Agribusiness/Agricultural Business Operations
010103	Agricultural Economics

**Table 37 Continued on Next Page**

**Table 37 Continued**

010308	Agroecology and Sustainable Agriculture
010605	Landscaping and Groundskeeping
010901	Animal Sciences, General
010907	Poultry Science
011001	Food Science
011102	Agronomy and Crop Science
011103	Horticultural Science
030101	Natural Resources/Conservation, General
030502	Forest Sciences and Biology
030601	Wildlife, Fish and Wildlands Science and Management
040201	Architecture
040501	Interior Architecture
040601	Landscape Architecture
150101	Architectural Engineering Technology/Technician
150303	Electrical, Electronic and Communications Engineering Technology
150405	Robotics Technology/Technician
150612	Industrial Technology/Technician
150699	Industrial Production Technologies/Technicians, Other
151201	Computer Engineering Technology/Technician
490101	Aeronautics/Aviation/Aerospace Science and Technology, General
490102	Airline/Commercial/Professional Pilot and Flight Crew
522001	Construction Management

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## APPENDIX D: K-12 CTE CLUSTER TO INDUSTRY CROSSWALK

TABLE 38: K-12 CTE CLUSTER TO INDUSTRY CROSSWALK

NAICS Code	Industry Title
<b>1. Agriculture, Food, and Natural Resources</b>	
11	Agriculture, Forestry, Fishing and Hunting
23	Construction
42	Wholesale Trade
<b>2. Architecture and Construction</b>	
22	Utilities
23	Construction
54	Professional, Scientific, and Technical Services
<b>3. Arts, A/V Technology, and Communications</b>	
51	Information
71	Arts, Entertainment, and Recreation
<b>4. Business, Marketing, and Finance</b>	
42	Wholesale Trade
44-45	Retail Trade
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
92	Public Administration
<b>5. Education and Training</b>	
61	Educational Services
<b>6. Health Science</b>	
62	Health Care and Social Assistance
<b>7. Hospitality and Tourism</b>	
44-45	Retail Trade
71	Arts, Entertainment, and Recreation
72	Accommodation and Food Services
81	Other Services (except Public Administration)
<b>8. Human Services</b>	
61	Educational Services
62	Health Care and Social Assistance
81	Other Services (except Public Administration)
<b>9. Information Technology</b>	
51	Information
54	Professional, Scientific, and Technical Services
<b>10. Law, Public Safety, Corrections, and Security</b>	
54	Professional, Scientific, and Technical Services
56	Administrative and Support and Waste Management and Remediation Services
92	Public Administration
<b>11. Manufacturing</b>	
31-33	Manufacturing
<b>12. Science, Technology, Engineering, and Mathematics</b>	
21	Mining, Quarrying, and Oil and Gas Extraction
22	Utilities

*Table 38 Continued on Next Page*

**Table 38 Continued**

23	Construction
31-33	Manufacturing
48-49	Transportation and Warehousing
54	Professional, Scientific, and Technical Services
56	Administrative and Support and Waste Management and Remediation Services
62	Health Care and Social Assistance

**13. Transportation, Distribution, and Logistics**

42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
54	Professional, Scientific, and Technical Services
56	Administrative and Support and Waste Management and Remediation Services
92	Public Administration

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# SLDS

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