Career and Technical Education and Work-Based Learning Update

Craig Statucki
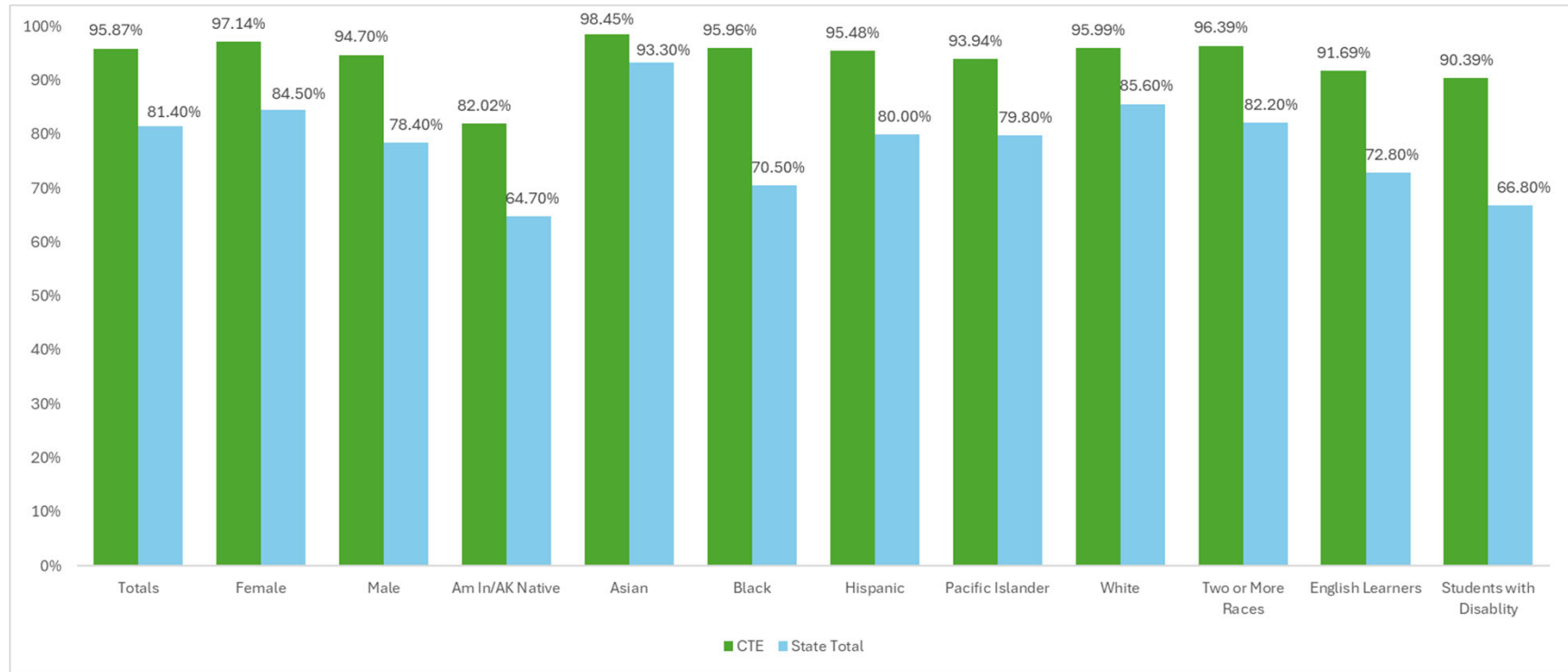Director, Office of Career
Readiness, Adult
Learning, and Education
Options

NEVADA
Department of
Education

Overview of Career and Technical Education (CTE)

- During the 2023-24 school year, 70,787 (46.6%) high school students are enrolled in a CTE program of study and 3,708 middle school students in a recognized middle school course

- There are 54 secondary CTE programs of study that are aligned to State standards developed in partnership between secondary educators, postsecondary educators, and business and industry partners

- Secondary CTE programs are funded through Perkins V (federal) and State CTE grants

NEVADA
Department of
Education

2022-23 CTE Graduation Rates

	Totals	Female	Male	Am In/AK Native	Asian	Black	Hispanic	Pacific Islander	White	Two or More Races	English Learners	Students with Disablity
CTE	95.87%	97.14%	94.70%	82.02%	98.45%	95.96%	95.48%	93.94%	95.99%	96.39%	91.69%	90.39%
State Total	81.40%	84.50%	78.40%	64.70%	93.30%	70.50%	80.00%	79.80%	85.60%	82.20%	72.80%	66.80%

CTE Funding

- FY 25 Perkins Allocation
  - $12.84M
  - Eligible secondary and postsecondary subrecipients
- FY 25 State CTE Funding
  - $13.54M
    - 30% Competitive Grant Process
    - 70% Allocation process
  - Eligible school districts and public charter schools

Overview of Work-based Learning (WBL)

Career Exploration

- Career fairs
- Guest speakers
- Industry tours
- Career aptitude and interest surveys
- Supervised Agricultural Experience (SAE): Foundational

Career Preparation

- Job shadowing
- School-based enterprises
- Supervised Agricultural Experiences (SAE): Research
- Supervised Agricultural Experience (SAE): Foundational

Career Training

- Apprenticeship ready programs
- Clinical experiences
- Career and technical education (CTE) work experience
- Internships
- Supervised Agricultural Experiences (SAE): Entrepreneurship/ownership
- Supervised Agricultural Experiences (SAE): Placement/Internship

NEVADA
Department of
Education

Perkins V State Plan Overview

3 Strategic Goals	New Secondary Program Quality Indicators	Defined High-skill, High-wage, and In-Demand Occupations
Postsecondary Accountability for a Secondary Indicator	Bold Growth Goals in CTE Specific Indicators	Future Regional Approaches

NEVADA
Department of
Education

Perkins V State Plan Goals

- Improve access to and achievement in high quality career and technical education programs of study aligned to high-skill, high-wage, and/or in-demand occupations.

- Develop a systematic approach to ensure access for all student population groups to career pathways and skill development from pre-kindergarten through postsecondary education.

- Ensure employers have a pipeline of skilled talent.

NEVADA
Department of
Education

Overview of Career and Technical Education (CTE)

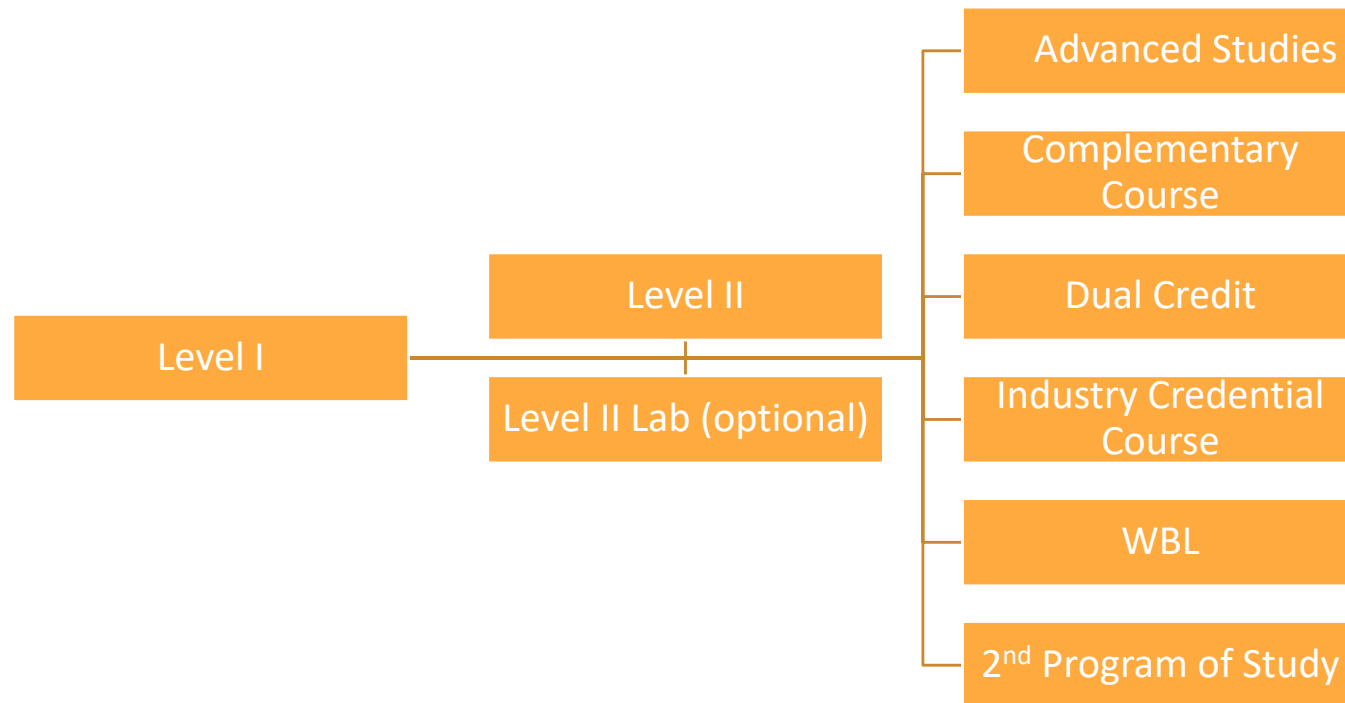|			
Agricultural, Food and Natural Resources	Architecture and Construction	Arts, A/V Technology, and Communication	Business Management and Administration
Education and Training	Finance	Government and Public Administration	Health Science
Hospitality and Tourism	Human Services	Information Technology	Law, Public Safety, Corrections, and Security
Manufacturing	Marketing	Science, Technology, Engineering, and Mathematics	Transportation, Distribution, and Logistics

NEVADA
Department of Education

Recent CTE Program of Study Additions

- Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR)
- Human Services
- Logistics Management

Coming soon:
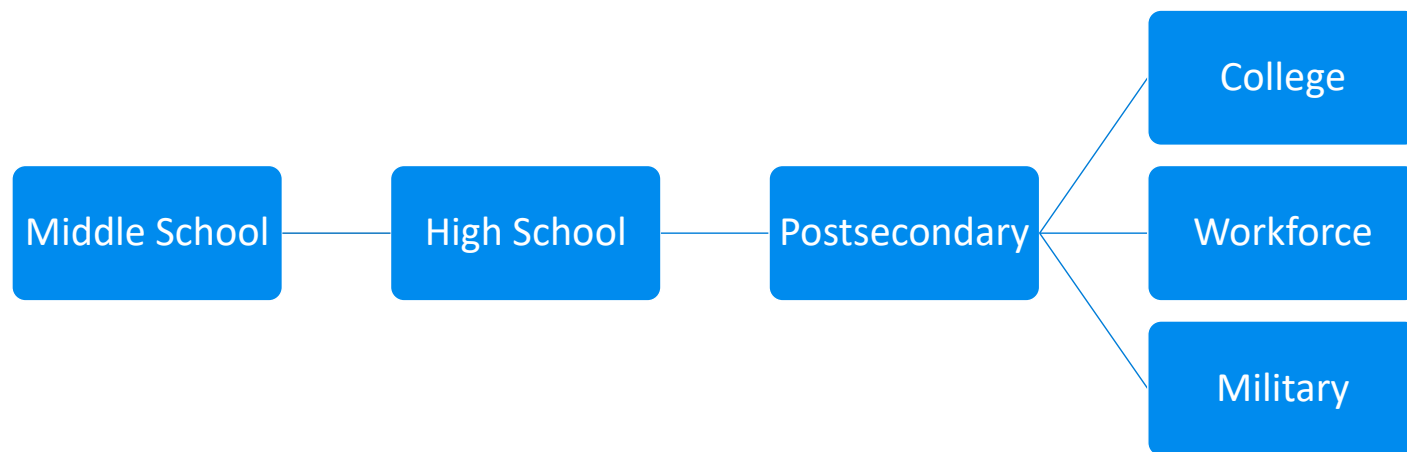
- Mining Sciences and Technology

Overview of Career and Technical Education (CTE)

Level I → Level II / Level II Lab (optional) → Advanced Studies, Complementary Course, Dual Credit, Industry Credential Course, WBL, 2nd Program of Study

Systematic Approach

```
Middle School ── High School ── Postsecondary ── College
                                              ── Workforce
                                              ── Military
```

Capturing all Potential Student Outcomes
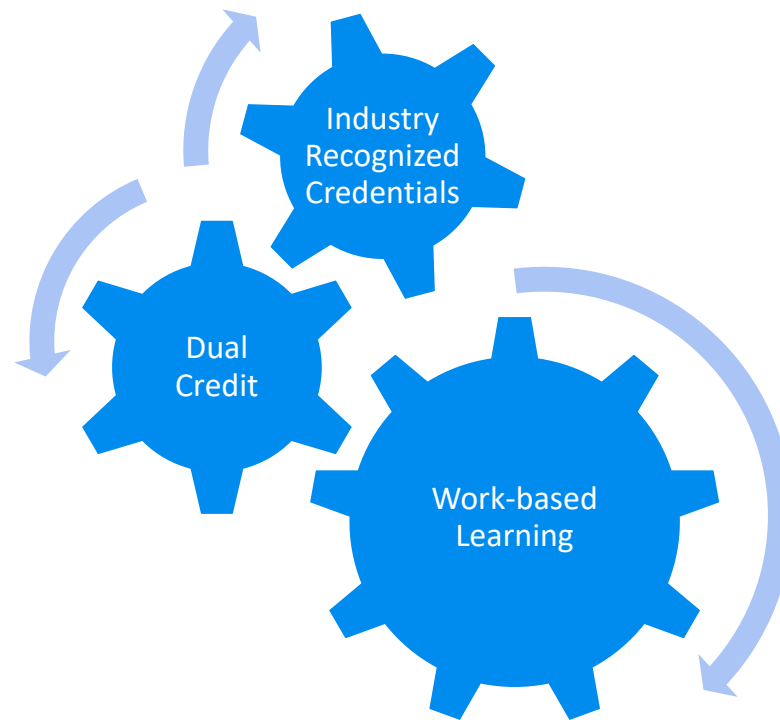
Barriers and Solutions to Achieving Student Outcomes

Barriers and Solutions to Dual Credit

Varied Financial Supports
- Dedicated funding source
- Tuition waivers or reimbursements for students earning a postsecondary certificate or higher

Inconsistent Secondary Teacher Approvals
- Transparent, published minimum qualifications for every program of study
- Consistent qualifications across all community colleges

Recognizing that CTE is Different
- Improve postsecondary's understanding the Business and Industry teacher licensing process and qualifications

NEVADA
Department of
Education

Barriers and Solutions to Industry Recognized Credentials (IRC)

Credentials vs. Credentials of Value
- Identifying the credentials that get students hired
- Working with GOWINN on the IRC approval and removal process

Cost vs. Value
- Colorado and Hawaii have developed statutes related to high quality credentials and prioritizing in-demand credentials

Another Assessment
- Currently in regulation process to allow CTE programs to substitute an IRC for an end-of-program CTE skills assessment

NEVADA
Department of
Education

Work-based Learning

AB256
- NDE has provided a uniform Nevada Employer Host Vetting Form to be used by all districts. Each district/charter school is required to submit the process used to vet employers as part of the application approved by the local board of trustees and the Superintendent of Public Instruction.

- AB256 also prescribed required safety training for students on harassment, healthy relationships, and identifying predatory behavior in a workplace.

Work-based Learning Guide and Plans
- Districts submitted new work-based learning plans through our updated uniform WBL application to comply with the new laws. Department provided resources and technical assistance throughout the process.

- NDE's Guide to Work-based Learning was also updated to reflect the new changes and requirements to ensure adequate guidance was provided to districts and schools.

Barriers and Solutions to Work-based Learning from AB256

Limited Resources
- Need a comprehensive list of exempted employers recognized by the state

Complex Vetting Process
- Parental waivers allowing their student to engage with employers not fingerprinted

Time-consuming Procedures
- Allow business agency or organization to provide a signed letter confirming all their employees have cleared background checks
- Ensure employers background checks are valid for 5 years

Minimum Age Requirements
- Potential revisions or additions to NRS 609

Limited Paid Opportunities
- Incentivize tax credits to businesses that provide paid WBL experiences

NEVADA Department of Education

Contact Information

Craig Statucki

Director, Office of Career Readiness, Adult Learning, and Education Options

cstatucki@doe.nv.gov

Appendix

Statewide CTE Data

2023-24 Secondary CTE Enrollment

Disaggregated 2023-24 CTE and Statewide Enrollment Data

	CTE	Nevada Total
Male	53.7%	48.7%
Female	46.2%	51.2%
Hispanic	46.0%	45.3%
White	27.9%	28.0%
Black/African American	10.5%	11.5%
Two or more	6.7%	6.8%
Asian	6.6%	6.1%
Pacific Islander	1.5%	1.6%
Am. Indian/Alaska Nat.	0.7%	0.8%
IEP	9.2%	11.0%
EL	11.3%	12.0%
FRL	85.6%	80.9%

NEVADA Department of Education

21
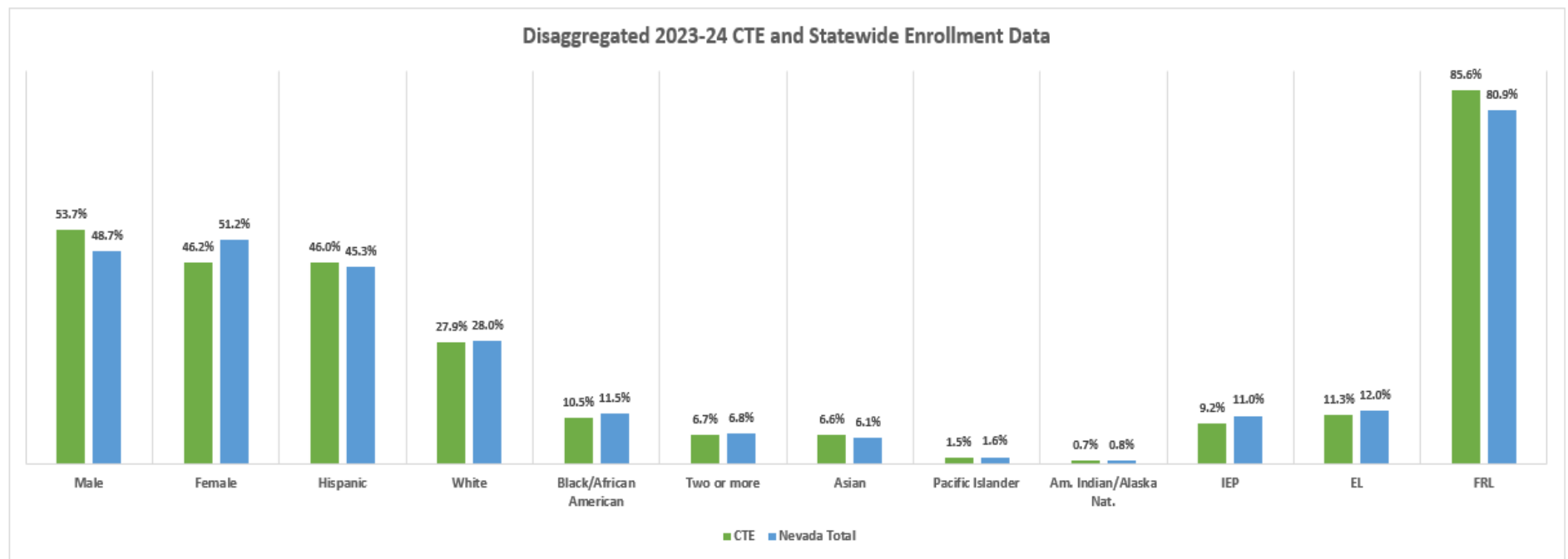
2023-24 CTE Middle School Enrollment

Unduplicated, Disaggregated CTE MS Enrollment (Grades 6-8) compared to Statewide MS Enrollment (Grades 6-8)

Category	CTE	NV Total
Male	56%	52%
Female	44%	48%
Hispanic/Latino	42%	45%
White	33%	28%
Black/African American	10%	12%
Two or more	7%	7%
Asian	6%	6%
Am. Indian/Alaska Nat.	1%	1%
Pacific Islander	1%	2%
IEP	11%	13%
EL	11%	13%
FRL	76%	81%

NEVADA Department of Education
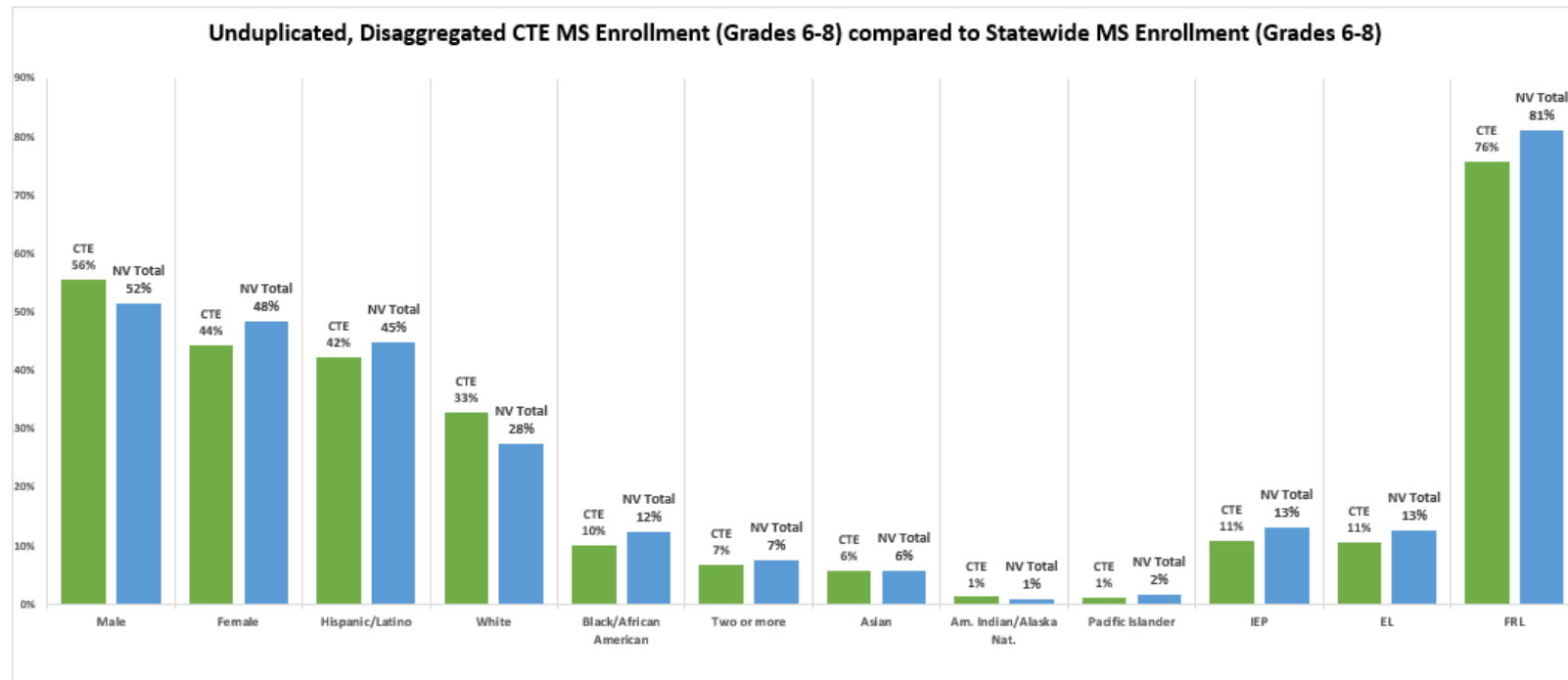
2023-24 Secondary CTE Enrollment by District

% of HS students (9-12) participating in one or more CTE courses in 2023-24 School Year

District	%
White Pine	65%
Pershing	63%
Carson City	60%
Elko	60%
Humboldt	55%
Churchill	53%
Clark	51%
Lincoln	51%
Lyon	50%
Statewide	48%
Douglas	47%
Lander	47%
Nye	39%
Washoe	37%
Mineral	36%
SPCSA	36%

NEVADA
Department of
Education

23

CTE Concentrators*

CTE High School Concentrators

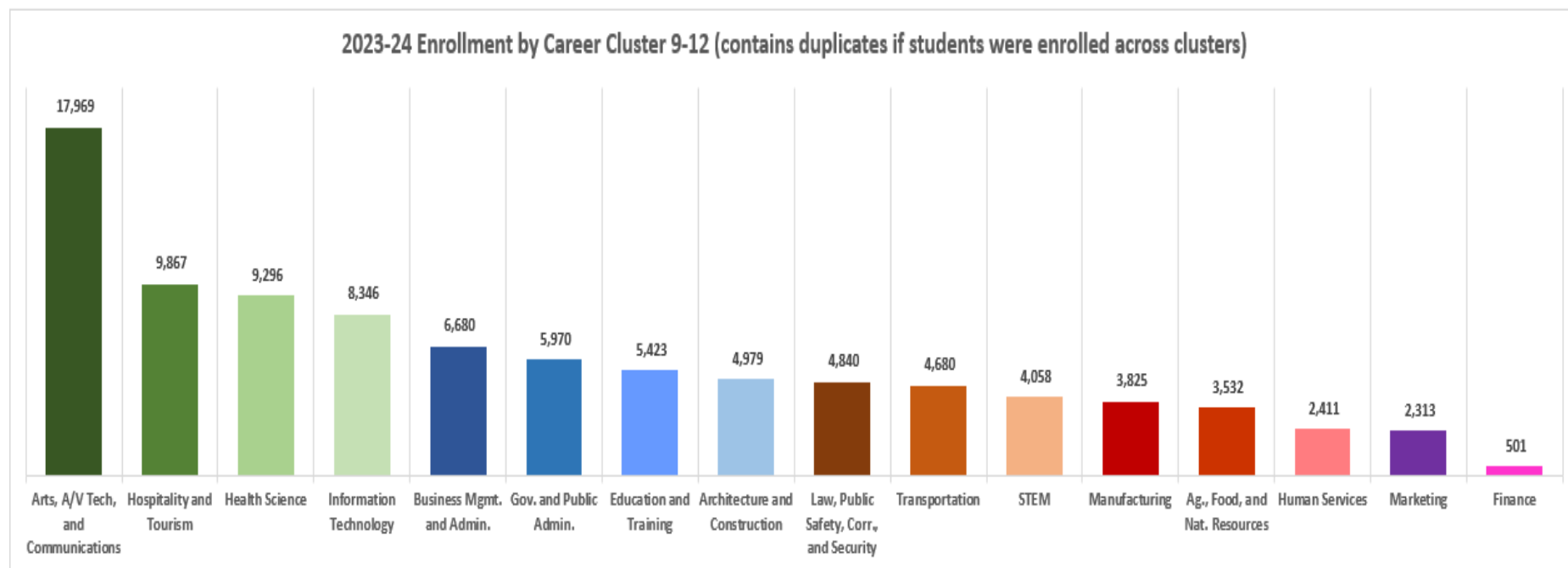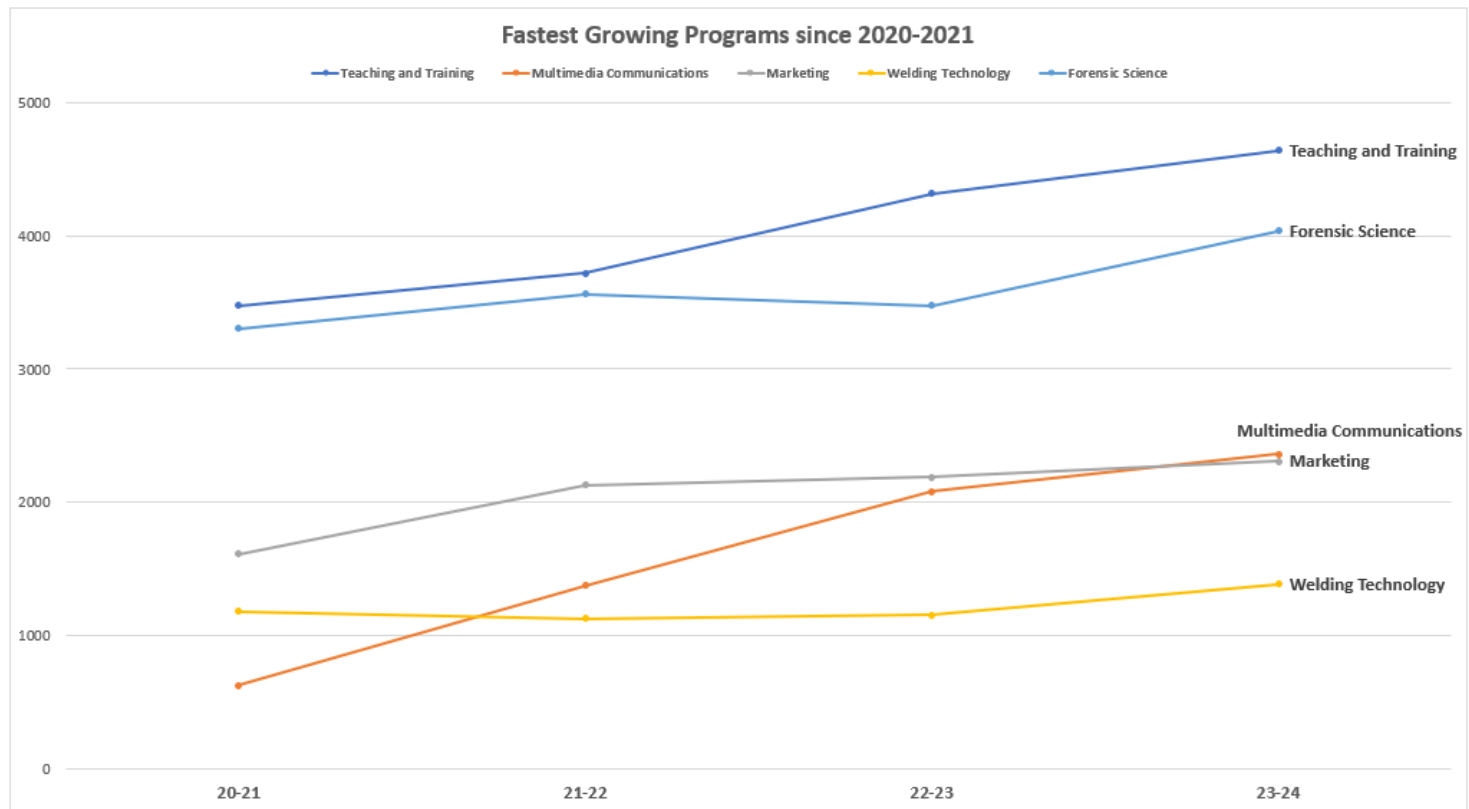| Year	Concentrators
2019-2020	32,053
2020-2021	35,285
2021-2022	35,374
2022-2023	36,625
2023-2024	35,164

* Secondary concentrator is defined as a student who completed at least two CTE courses in sequence in the same CTE program of study

NEVADA Department of Education

2023- 24 Career Cluster Enrollment

2023-24 Enrollment by Career Cluster 9-12 (contains duplicates if students were enrolled across clusters)

Career Cluster	Enrollment
Arts, A/V Tech, and Communications	17,969
Hospitality and Tourism	9,867
Health Science	9,296
Information Technology	8,346
Business Mgmt. and Admin.	6,680
Gov. and Public Admin.	5,970
Education and Training	5,423
Architecture and Construction	4,979
Law, Public Safety, Corr., and Security	4,840
Transportation	4,680
STEM	4,058
Manufacturing	3,825
Ag., Food, and Nat. Resources	3,532
Human Services	2,411
Marketing	2,313
Finance	501

Enrollment Growth

Fastest Growing Programs since 2020-2021

Enrollment Trends in Information Technology
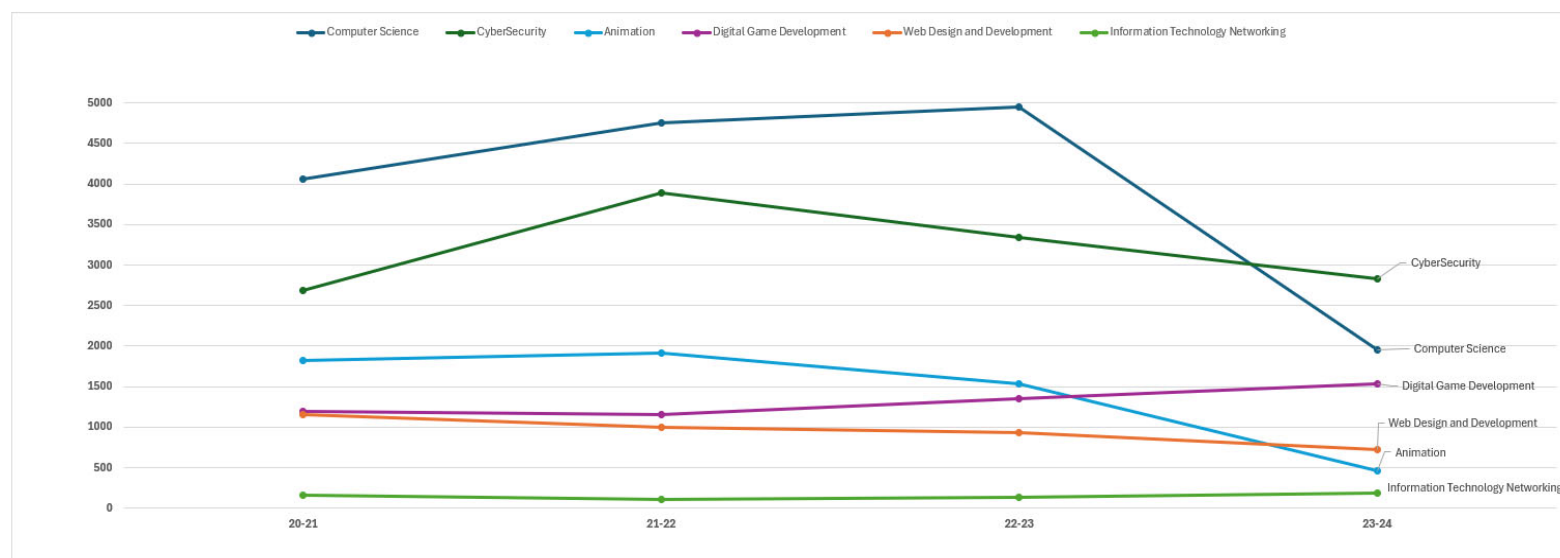
Overall WBL Participation

Unduplicated number of Students Participating in Work-based Learning

Year	Number
2019-2020	3,072
2020-2021	645
2021-2022	3,786
2022-2023	7,204
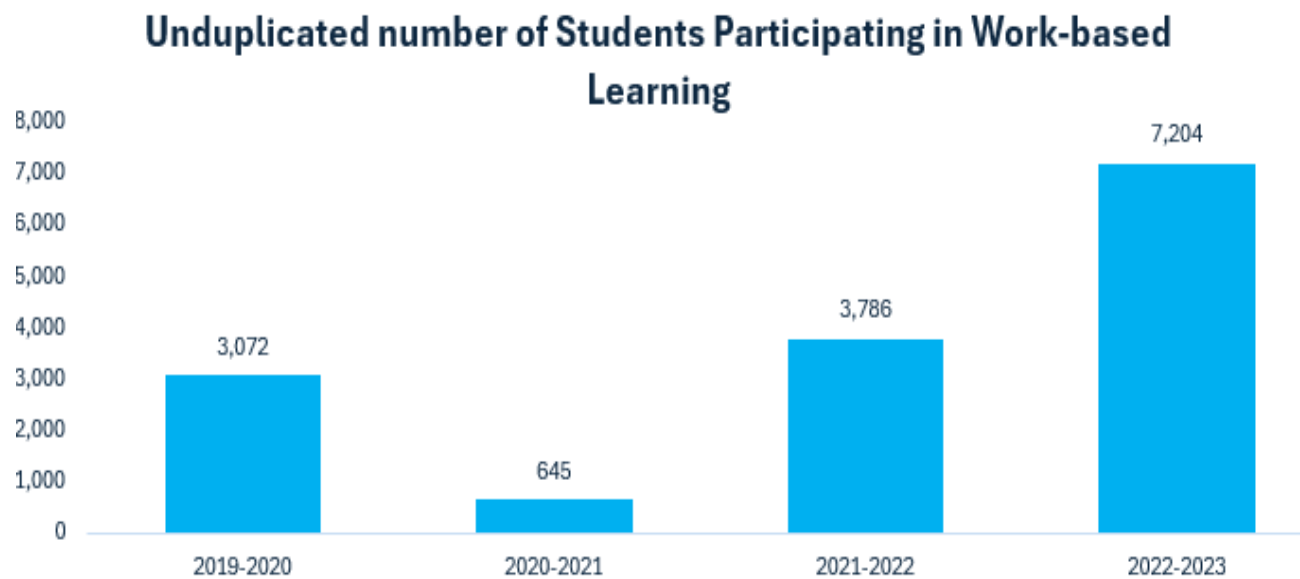
WBL Participation by Activity

Participation in Work-based Learning Opportunities

Job Shadowing: 911, 47, 1208, 5995
Supervised Agriculture Experience (SAE) – school-based: 905, 252, 1414, 2663
School-based Enterprise: 602, 87, 389, 657
Simulated Workplace: 509, 52, 195, 2146
Career Training – Internship (as a part of a course, including clinicals)*: 346, 31, 334, 809
Internship (unpaid): 281, 71, 209, 393
Career Training – Supervised Agriculture Experience - employer site: 64, 126, 0, 345
Internship (paid): 22, 15, 162, 245
CTE Work Experience: 18, 67, 49, 219

■ 2019-2020 ■ 2020-2021 ■ 2021-2022 ■ 2022-2023

WBL Participation by Student Population

2022-2023 Work-based Learning and Statewide Enrollment
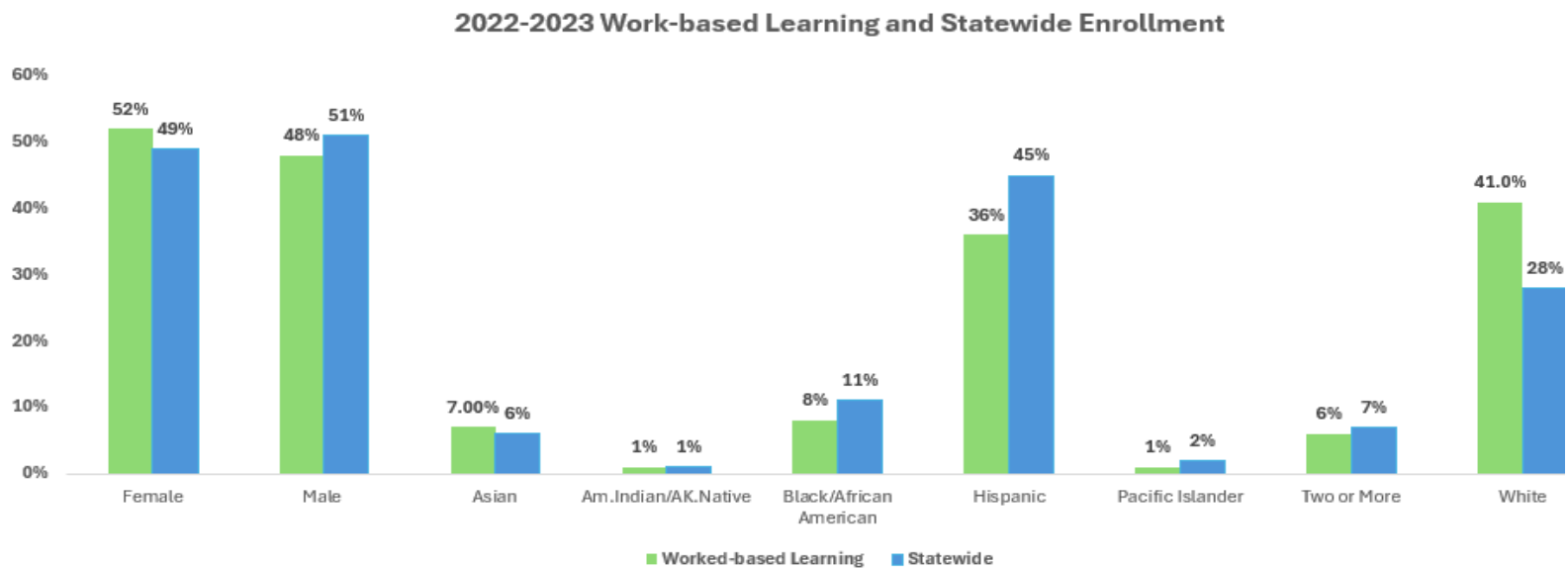
Perkins V State Determined Performance Levels (SDPL) Targets

Past Performance Postsecondary SDPL

Perkins Indicator	2021-22 Actual Performance	2022-23 Actual Performance	Average
1P1:Postsecondary Retention and Placement	73.03%	79.61%	76.32%
2P1: Earned Recognized Postsecondary Credential	32.25%	77.23%	54.74%
3P1: Non-traditional Program Enrollment	24.22%	22.37%	23.30%

NEVADA
Department of
Education

Postsecondary SDPL Targets

Perkins Indicator	2024-25	2025-26	2026-27	2027-28
1P1:Postsecondary Retention and Placement	76.35%	79.35%	82.35%	85.35%
2P1: Earned Recognized Postsecondary Credential	55.00%	70.00%	77.00%	82.00%
3P1: Non-traditional Program Enrollment	23.50%	24.00%	24.50%	25.00%

NEVADA
Department of
Education

Past Performance Secondary Academic SDPL

Perkins Indicator	2021-22 Actual Performance	2022-23 Actual Performance	Average
1S1: Four-year Graduation Rate	93.08%	95.87%	94.48%
2S1: Academic Proficiency in Reading/Language Arts	49.53%	51.46%	50.50%
2S3: Academic Proficiency in Science	21.59%	16.74%	19.17%

NEVADA
Department of
Education

Secondary Academic SDPL Targets

Perkins Indicator	2024-25	2025-26	2026-27	2027-28
1S1: Four-year Graduation Rate	94.50%	95.00%	95.50%	96.00%
2S1: Academic Proficiency in Reading/Language Arts	51.50%	53.00%	54.50%	56.00%
2S2: Academic Proficiency in Mathematics	23.00%	23.50%	24.00%	24.50%
2S3: Academic Proficiency in Science	19.25%	19.75%	20.25%	20.75%

Past Performance Secondary Program Quality SDPL

Perkins Indicator	2021-22 Actual Performance	2022-23 Actual Performance	Average
3S1: Post-program Placement	56.92%	73.44%	65.18%
4S1: Non-traditional Program Enrollment	32.47%	33.46%	32.97%
5S1: Program Quality - Recognized Postsecondary Credentials	4.23%	8.78%	6.51%
5S2: Program Quality – Attained Postsecondary Credits	1.89%	2.71%	2.30%
5S3: Program Quality – Work-based Learning	4.41%	12.36%	8.38%

NEVADA
Department of Education

Secondary Program Quality SDPL Targets

Perkins Indicator	2024-25	2025-26	2026-27	2027-28
3S1: Post-program Placement	65.50%	72.50%	79.50%	86.50%
4S1: Non-traditional Program Enrollment	33.00%	34.00%	35.00%	36.00%
5S1: Program Quality – Industry Recognized Credentials	7.00%	12.00%	17.00%	22.00%
5S2: Program Quality – Attained Postsecondary Credits	2.50%	7.50%	12.50%	17.50%
5S3: Program Quality – Work-based Learning	9.00%	14.00%	19.00%	24.00%

NEVADA
Department of Education