

EXHIBIT F1

K-12 CAREER AND TECHNICAL EDUCATION

Tuesday, June 4, 2024



2024 ADEQUACY STUDY



DEFINITION AND PURPOSE

- At the request of the Committees on Education
- Relevancy to Educational Adequacy definition
 - Career and technical frameworks
 - Required content area in mandatory thirty-eight (38) Carnegie units defined by the Arkansas Standards of Accreditation

Expenditures and Funding

CTE Programs, Courses, and Students

2023 Legislation and Workforce Connections

CTE OVERSIGHT

All Programs of Vocational, Technical, and Occupational Education

Other Involved Entities:

- Office of Skills Development (**OSD**), Department of Commerce
- Career Education and Workforce Development Board (**CEWDB**)
- Division of Elementary and Secondary Education (**DESE**)
- Division of Higher Education (**ADHE**)



Division of Career and Technical Education
with the State Board of Education

Approve and oversee public school CTE programs	Develop academic standards for CTE programs and teachers
Receive and distribute federal & state funds	Approve the programs and courses districts can offer
Ensure CTE instructors are appropriately licensed and permitted	Adopt rules governing CTE programs

3



STATE INSTRUCTIONAL REQUIREMENTS

Arkansas Standards of Accreditation

Grades 5 – 8

- Districts are required to **offer Career Education instruction** to all students
 - KeyCode or Keyboarding (Grades 5-8)
 - Career Development (Grades 7-8)

Grades 9 – 12

- Districts are required to **offer nine “sequenced career and technical education courses** representing **three (3) occupational areas”** of the total 38 Carnegie units offered annually
- Districts must offer **at least three programs of study** to comply with state standards

4



STATE INSTRUCTIONAL REQUIREMENTS

Arkansas Statute

A career and technical program of study shall be made available

A planned program of courses and learning experiences that:

- (1) Begins with the exploration of career options;
- (2) Supports basic academic and life skills; and
- (3) Enables achievement of:
 - High academic standards
 - Leadership
 - High-skill, high-wage employment preparation
 - Advanced continuing education

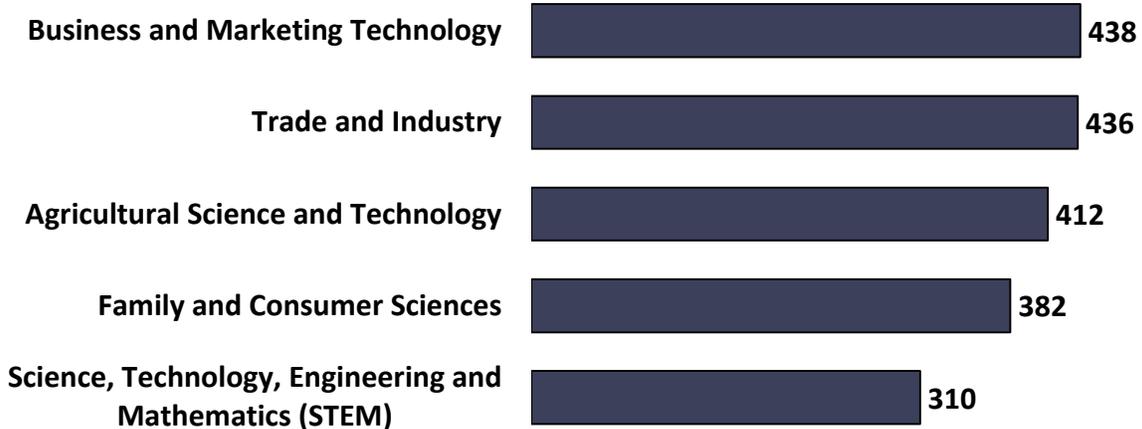
- May award postsecondary credits for courses that lead to a credential, certificate, or degree
- May be evaluated for quality by technical skills assessments
- Made up of CTE courses aligned with college and career readiness standards

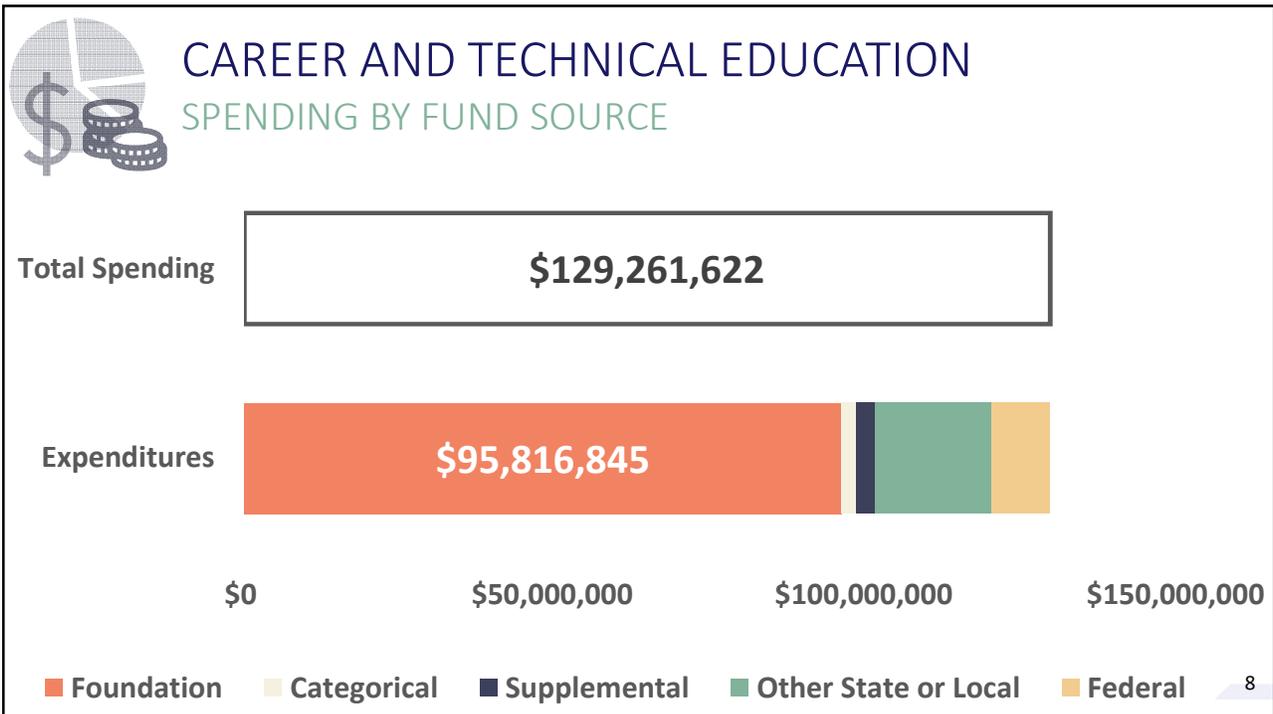
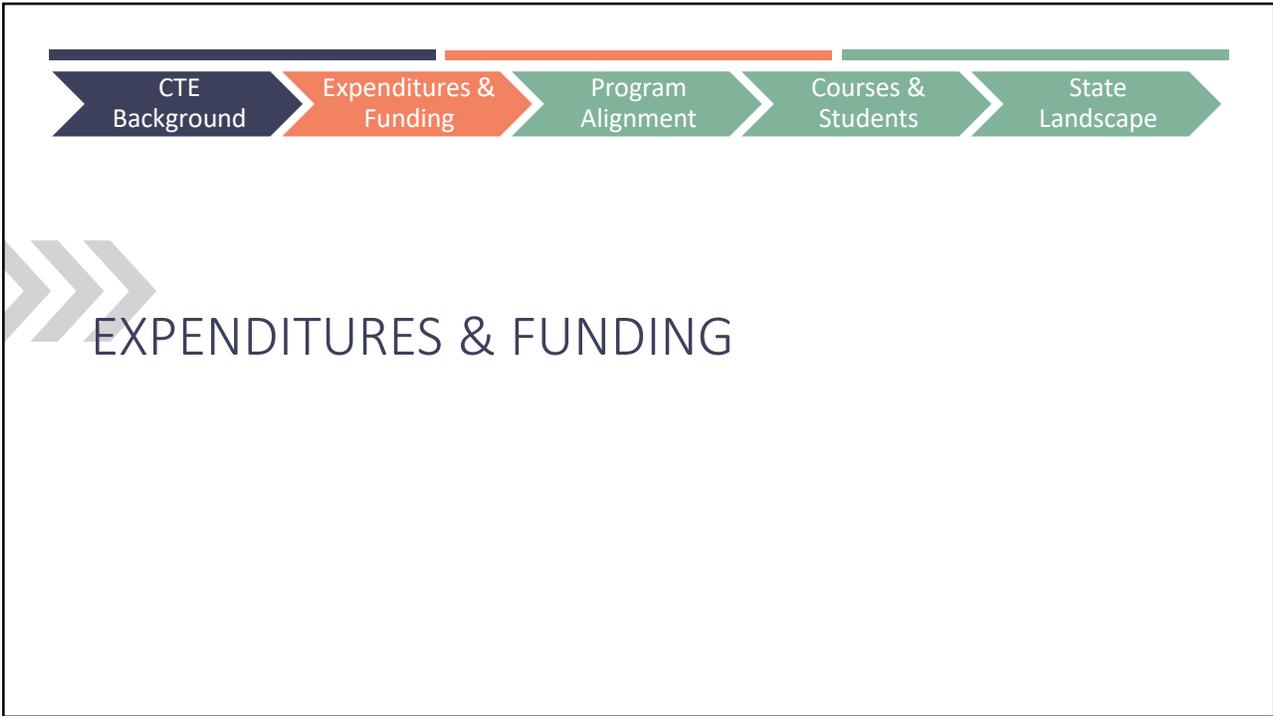


Survey Responses

Programs of Study Offered by Occupational Area

*“Please identify how many programs of study are offered in the occupational areas below.”
(A program of study must include at least three course levels taught sequentially.)*







CTE SPENDING BY CATEGORY

Expenditure Category	2023 CTE Expenditures	% of Total CTE Expenditures	% of Statewide Expenditures
Teachers Grades 1-12	\$107,319,753	83%	5.5%
Non-Athletic Instructional Materials	\$7,770,248	6%	4.7%
Instructional Supplies and Objects	\$7,244,103	5.6%	5.0%
Technology	\$3,305,085	2.6%	1.6%
Extra Duty	\$1,441,140	1.1%	4.5%
Instructional Aides	\$1,432,042	1.1%	0.6%
Substitute Teachers	\$749,252	0.6%	1.2%

9



CTE SPENDING BY CATEGORY

Instructional Occupational Areas

Function	Expenditure
Business/Office Occupations	\$43,424,092
Agriculture	\$25,985,534
Home Economics/ Culinary Arts	\$22,977,737
Trade and Industrial	\$14,721,426

Function	Expenditure
Career Orientation	\$8,493,264
Health Careers/Occupations	\$5,457,082
Special Needs	\$2,616,207
General Cooperative	\$2,927,588
Marketing and Distributive Education	\$1,712,031
Keystone	\$946,661

10



CAREER AND TECHNICAL EDUCATION FUNDING

Funding Sources Include:

- Carl D. Perkins Federal Grants
- Public School Fund – Career Education
 - Vocational Start-up Grants
 - Vocational Center Aid
 - Career Coaches Program
- Other State Grants for Special Programming



CARL D. PERKINS (PERKINS V) FEDERAL FUNDING

2023 Allocation from Perkins V: \$14.7 million

Fund Source	2023 Funding Total
Carl D. Perkins	\$17,683,543

FY2023 Expenditures

- Less than 2.5% total adjusted budget amount remaining

Approximately \$6.13m to districts in grants/aid

Allowable Uses

- Improving DCTE programs and services for students in approved Programs of Study
- Career education to students Grade 5 and above

Carl D. Perkins Career and Technical Education Act of 2006, as amended by the Strengthening Career and Technical Education for the 21st Century Act (Perkins V) 2018



STATE START-UP GRANTS

Public School Fund

Fund Source	2023 Funding Total
Vocational Start-Up Grants	\$2,370,000

FY2023 Expenditures

- Approximately 7% of total funding remaining

Awarded

\$3.58 million

■ Vocational Start-Up
■ ESSER
■ Computer Science

Determining factors for approval and awards:

- funds available;
- state priority;
- labor market data; and
- evaluation and review of application & rubric

13



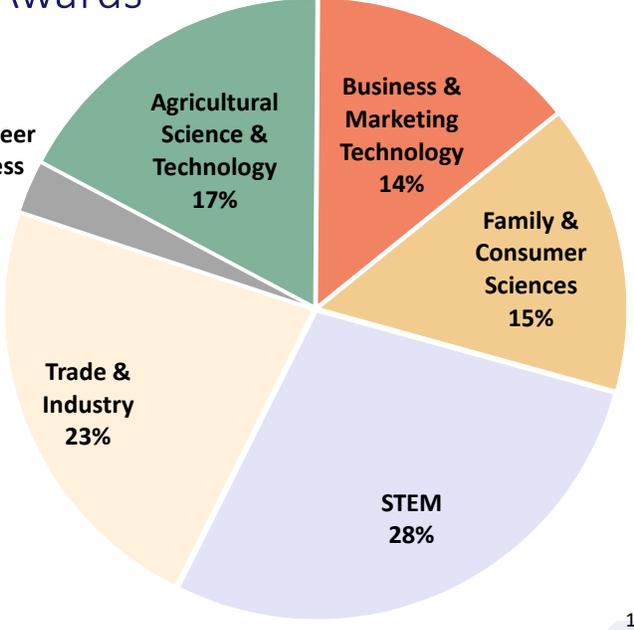
2022-2023 Start-Up Awards

37 CTE Programs

- ⑩ 77 schools in 69 districts
- ⑩ 99 Awards in Total

Purpose

- Expand CTE opportunities aligned with industry needs
- Cover costs for capital equipment, non-consumable supplies, and program software



14



SECONDARY TECHNICAL CENTERS (STC)

Secondary Career Centers / Vocational Centers / High School Career Centers

Fund Source	2023 Funding Total
Vocational Center Aid	\$20,620,498

FY2023 Expenditures

- Less than 1% of total funding remaining

Purpose

- Support economic, industrial, and employment development efforts
- Provide equity and substantially equal access to quality vocational programs
- Improve school programs to assist schools in meeting accreditation standards

30 STCs with 32 satellites

- New centers are established by recommendation
- Typically sponsored by high schools or two-year colleges

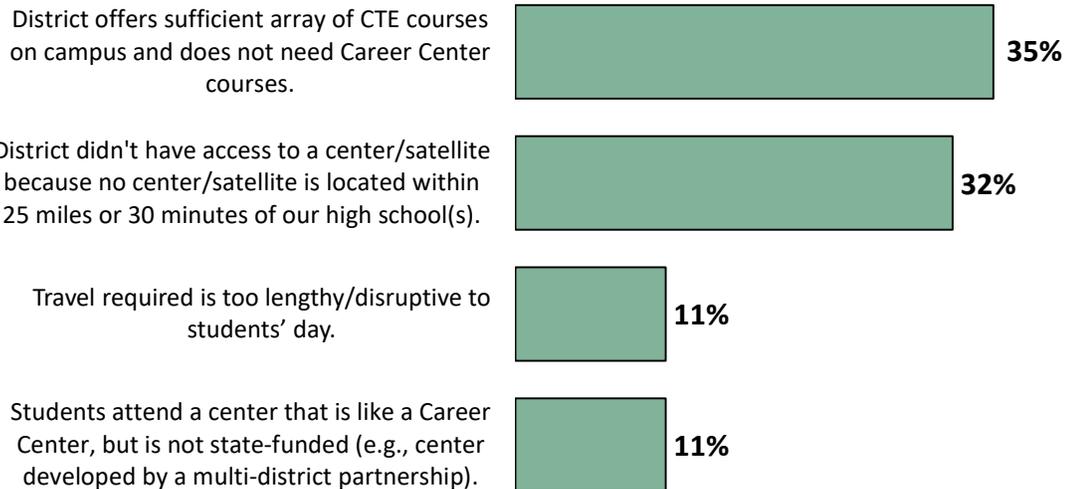
15



Survey Responses

Superintendents

31% of school districts **did not** send any students to a state-funded STC or satellite



16



PROGRAM ALIGNMENT

Programs of Study

Perkins V legislation definition: *“A coordinated, non-duplicative sequence of academic and technical content”*

New CTE Programs of Study

Reviewed by content area personnel within ADE

With input from:

- Industry leadership
- Secondary and postsecondary partners

Existing CTE programs

Reviewed annually:

- Meet the federal Perkins V definition of a Program of Study
- Follow all policies and procedures
- Follow all required CTE guidelines
- Remove all critical elements identified in tiered support reviews

Programs of Study

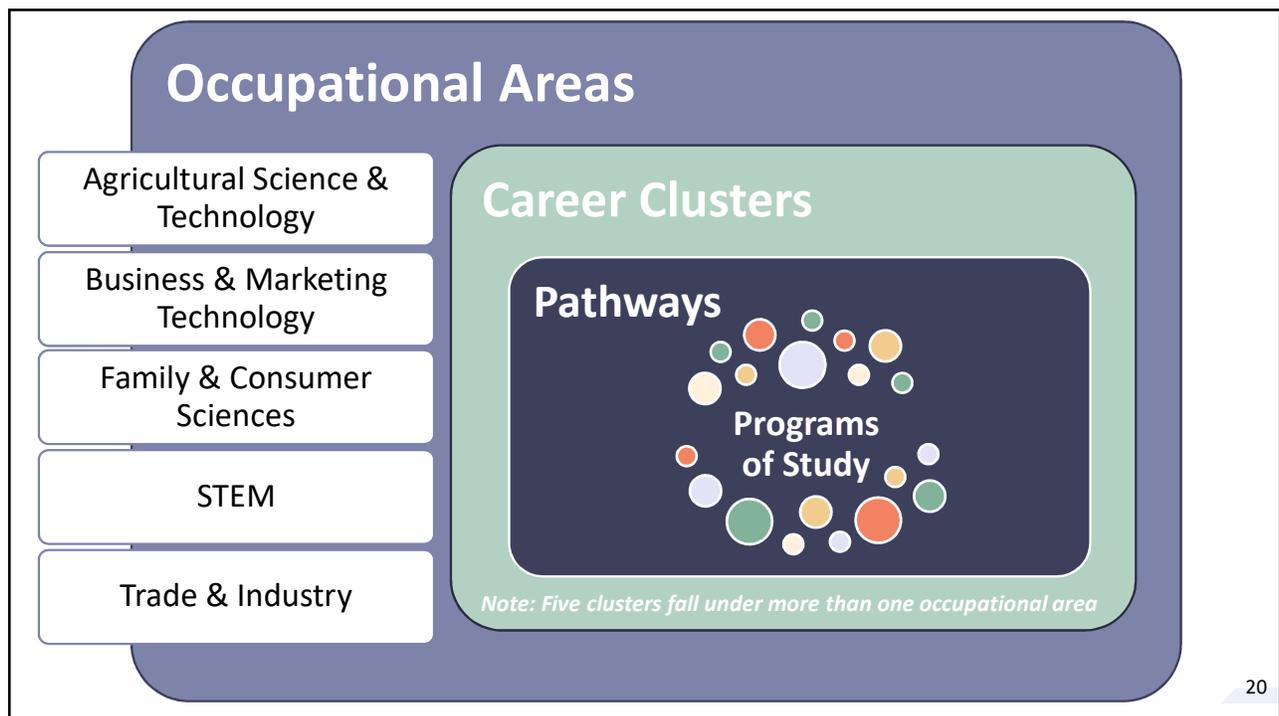
Arkansas statute requires that a “rigorous **career and technical education program of study**” shall be available which:

- Links secondary and postsecondary education
- Combines academic and technical education in a structured sequence of courses
- Progresses from broad foundation skills to occupationally specific courses

DCTE Defined: **CTE Modified Program of Study**

- Identifies programs by a minimum of two courses within a career cluster
- Culminates in advancement into a career, apprenticeship, postsecondary education, military or technical school

19



20

Programs of Study



5 Occupational Areas

16 Career Clusters

33 CTE Pathways



55 Programs of Study

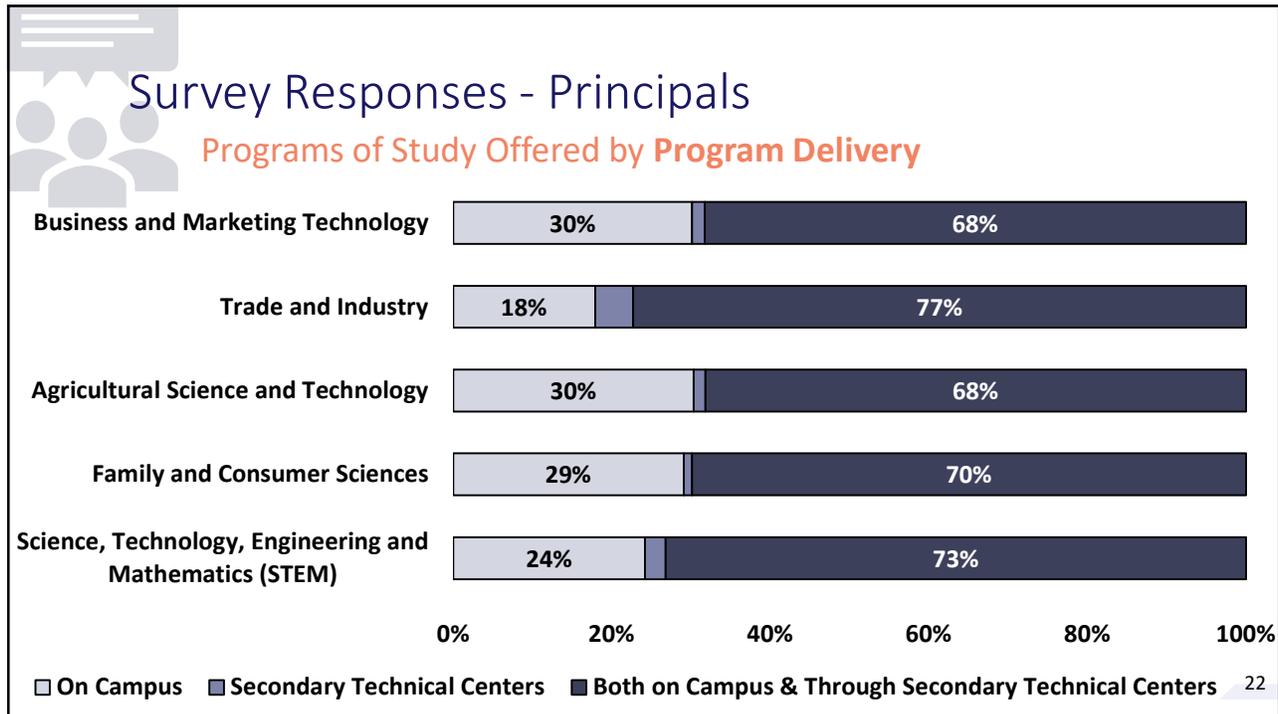
Program Delivery

- Districts may offer Programs of Study off campus to meet standards
 - Other public schools
 - Secondary Technical Center (STC)
 - Postsecondary institution

Program Personnel

- Licensures are submitted through DESE’s Office of Educator Licensure
- CTE instructors teaching at a Secondary Technical Center (STC)
 - Associate’s degree in instruction area
 - Completed background check
 - Met all college accrediting standards for instructors

21





CTE COURSES & STUDENTS



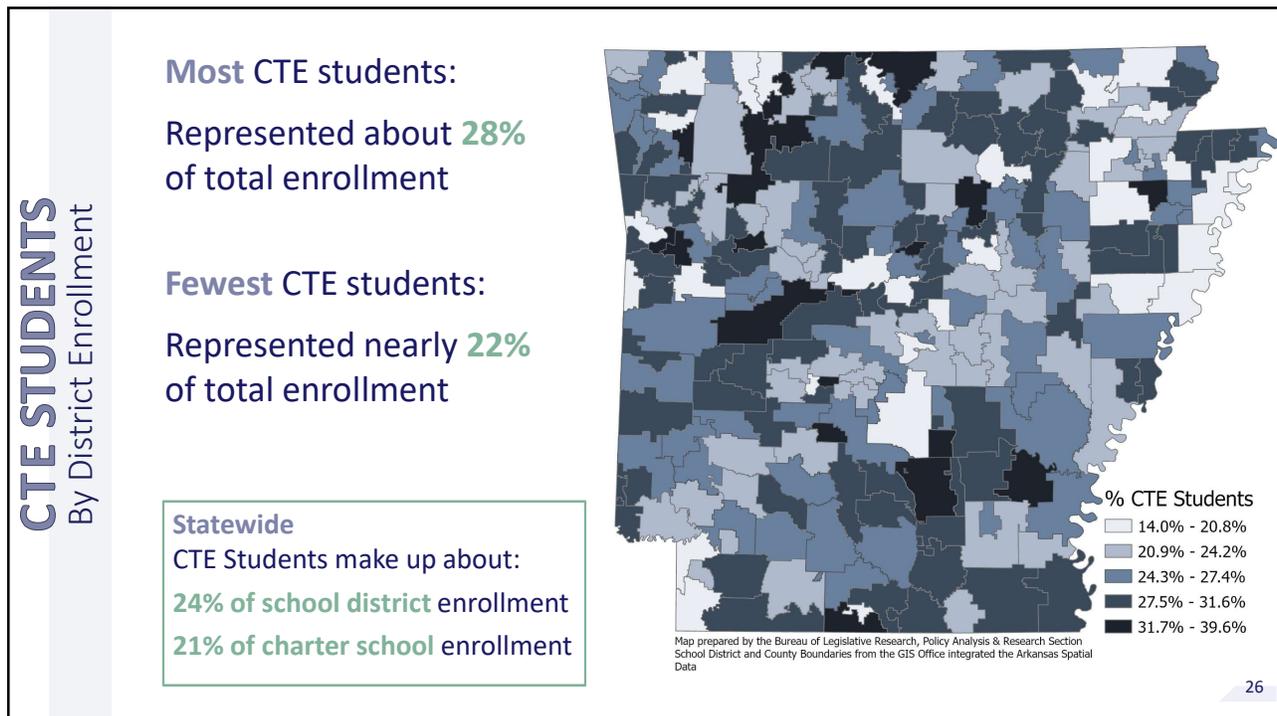
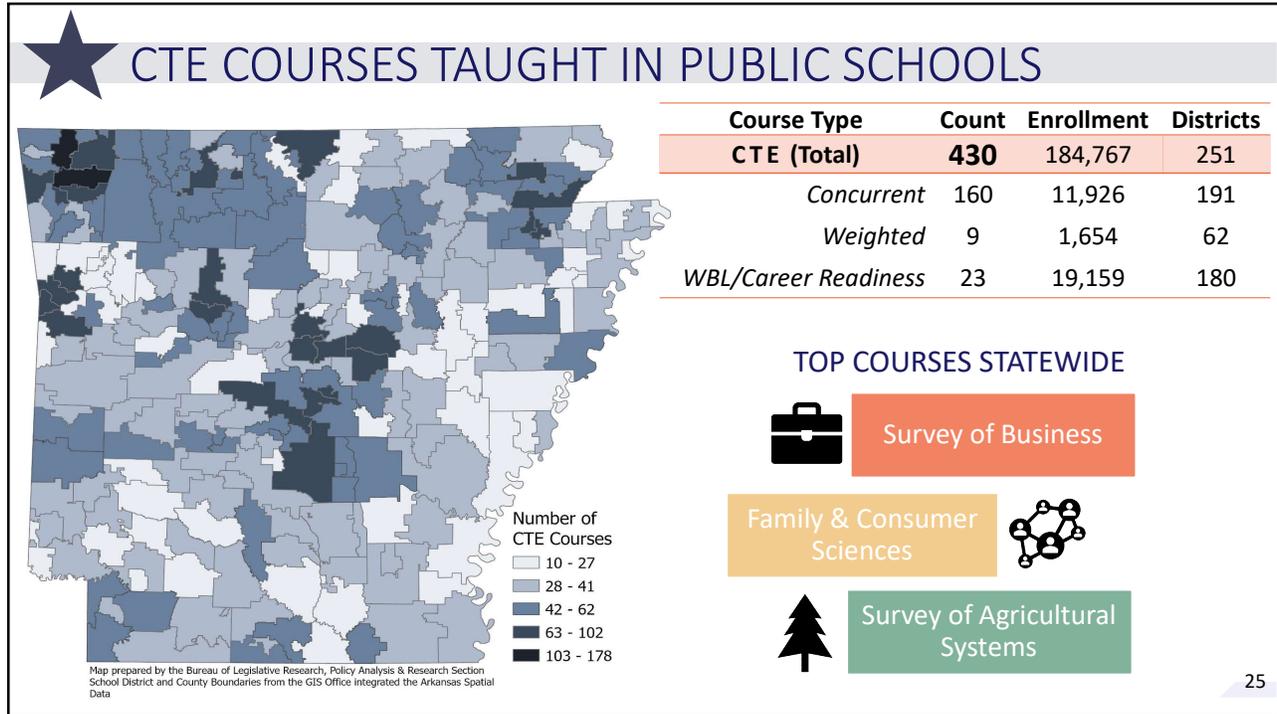
Course Offerings

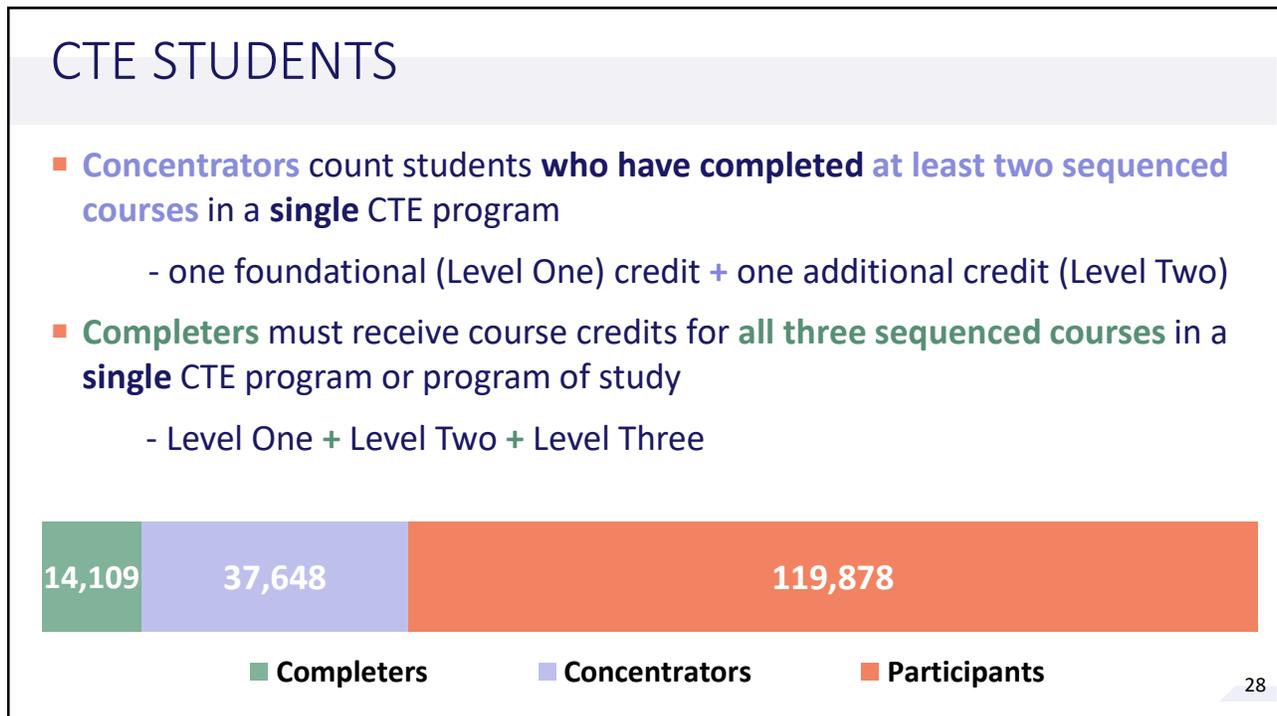
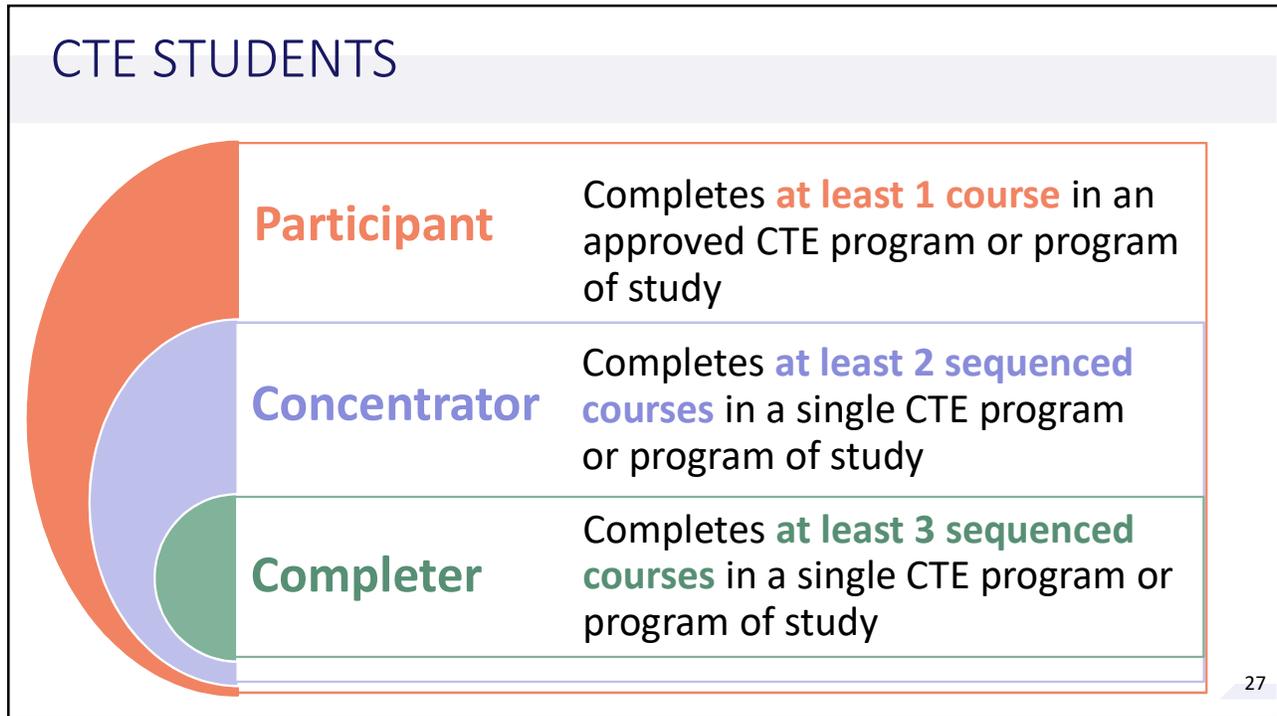
- Three sequential course levels
 - Increasing in specificity
- Students pursuing any CTE Program of Study **must** take Level One first



Supporting Programs

- Career Readiness
- Work-Based Learning
- Jobs for Arkansas Graduates (JAG)
- College and Career Coach Program
- Career and Technical Student Organizations (CTSOs)







Perkins V Accountability Measures

State Performance

Perkins V Performance Measures	Target	2023 Performance
Graduation Rate (4-YR Adjusted Cohort)	87.18%	97.2%
Academic Performance	ELA: 48.95% MATH: 42.77% SCIENCE: 48.90%	ELA: 65.92% MATH: 58.53% SCIENCE: 66.57%
Post-Secondary Placement	76.75%	82.78%
Non-Traditional Program Enrollment	13.33%	39.14%
Post-Secondary Credentials	33.29%	55.22%

*Measuring CTE Concentrators only

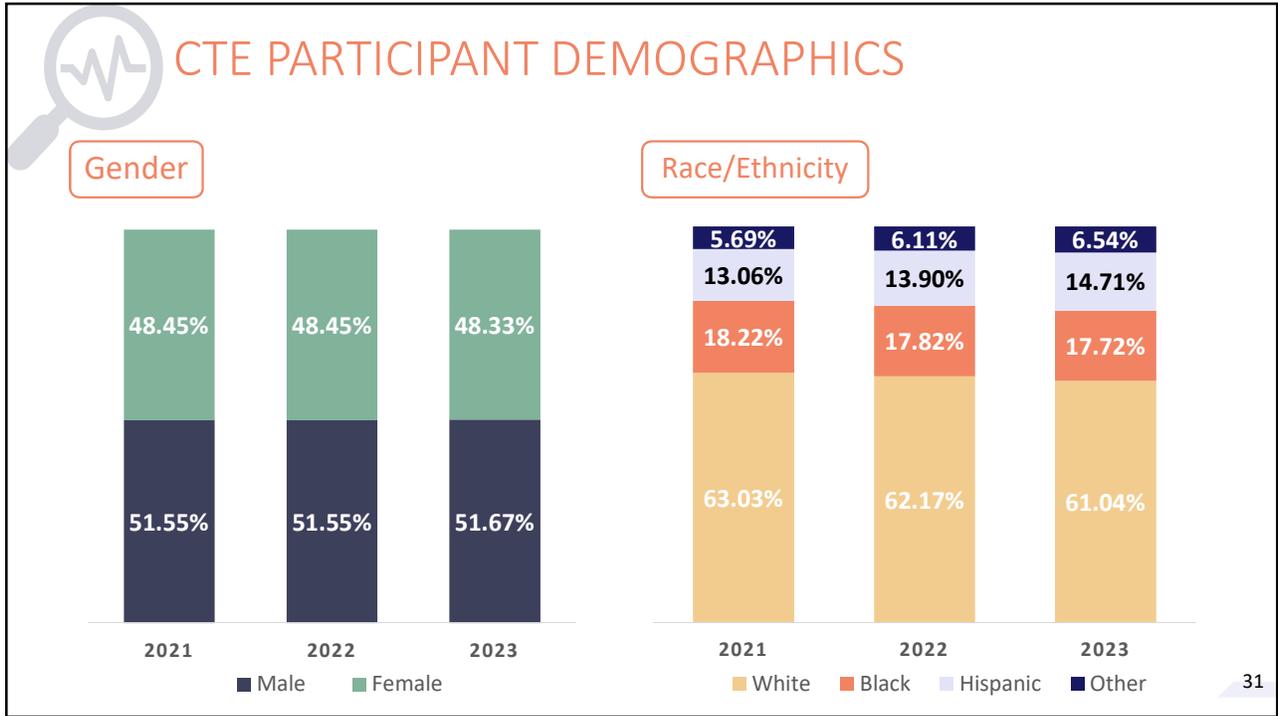


CTE PARTICIPANT DEMOGRAPHICS

Participants are students who completed:

- One CTE course, or
- Multiple non-sequential CTE courses

Perkins V Special Populations			
CTE Participants	2021	2022	2023
English Learner	6.2%	6.2%	6.4%
Students with Disabilities	11.4%	11.7%	11.6%
Economically Disadvantaged	59.0%	59.3%	60.2%



CTE STUDENTS

By Career Cluster

Career Cluster	Concentrators	Participants
Agriculture, Food, and Natural Resources	22,024	45,105
Business Management and Administration	14,117	61,330
Human Services	10,282	49,947
Hospitality and Tourism	7,831	69,328
Marketing Sales & Services	4,672	50,073
Finance	4,539	50,034
Information Technology	4,497	35,701
Transportation, Distribution and Logistics	4,356	53,084
Health Sciences	2,660	22,261
STEM (Science, Technology, Engineering, & Mathematics)	1,936	10,268
Education and Training	1,717	39,531
Architecture and Construction	1,397	7,281
Arts, Audio/Video Technology and Communications	1,335	42,232
Government and Public Administration	1,280	6,975
Law, Public Safety, Corrections and Security	841	4,872
Manufacturing	671	5,166

32



CTE STUDENTS

State Perkins Plan Student Goals:

- 10 Completes their CTE program with the most competitive academic, technical, and employability skills for future success.
- 10 Establishes **an individual career plan** and successfully accomplish the goals in that plan.
- 10 Develops and applies personal competencies and soft skills that promote learning and success in college, career, and life.



Student Success Plans

Required by end of Grade 8:

- o Secondary courses
- o Postsecondary planning
- o College & career components

One year after graduation

- 10 Be actively engaged in college, further career preparation, military service, and/or competitive employment.



STATE LANDSCAPE

Workforce Connections and Upcoming Legislation



WORKFORCE CONNECTIONS

Top Occupations by Education Level

	High School or Less	Associate Degree or Vocational Training	Bachelor's Degree or Higher
1	Stockers and Order Fillers	Heavy and Tractor-Trailer Truck Drivers	General and Operations Managers
2	Insurance Sales Agents	Preschool Teachers, Except Special Education	Clergy
3	Retail Salespersons	Hairdressers, Hairstylists, and Cosmetologists	Software Developers and Software Quality Assurance Analysts and Testers
4	Insurance Claims and Policy Processing Clerks	Licensed Practical and Licensed Vocational Nurses	Registered Nurses
5	Laborers and Freight, Stock, and Material Movers, Hand	Medical Assistants	Medical and Health Services Managers

Based on 2021-2023 Short-term Occupational Projections Net Growth

Source: Arkansas Division of Workforce Services - Department of Commerce, Top 10 Occupations by Education Level, <https://www.discover.arkansas.gov/Career-Watch/Top-10-Occupations-By-Education>.

Top Career Pathways:

By CTE course enrollment

- Family and Community Services (Human Services)
- Therapeutic Services (Health Sciences)
- Manufacturing Production (Manufacturing)
- Marketing Sales and Services

Top Programs

Secondary Technical Centers

- Nursing
- Welding
- Medical Skills and Services

2023 LEGISLATION

Act 242

- Students may substitute comparable *elective CTE* coursework for *core* academic courses required for graduation
 - Requires DESE to add the option to academic standards

Act 654

- Students may earn weighted credit *within an approved CTE pathway*, only awarded upon:
 - Completing the relevant CTE pathway
 - Earning an high-value industry credential aligned with the CTE pathway

(LEARNS) Act 237

- Required career awareness and exploration activities for students in 6th – 8th grades
- Required employer workers' compensation insurance coverage for Work-Based Learning students

(LEARNS) Act 237

- **“Career-ready pathways”** option to earn a high school diploma
 - Included in the student success plan
 - Requires each public school district to **offer at least one** career-ready pathway **aligned to state and regional workforce demands**
 - Courses aligned with high-wage, high-growth jobs
- **Data collecting system** for public high school student outcomes
 - Developed for **collecting, analyzing, and reporting** student outcomes associated with high-wage, high-growth career-ready pathways

37



UP NEXT

Teacher Reports