



# **Career and Technical Education**

*Lucille Fullen*  
*Director for CTE*

# Our Mission

The mission of the Career and Technical Education (CTE) program in the Abilene Independent School District is **to prepare students for post-secondary education and/or the workforce and to assume productive roles in the family and the community.**

# CTE Framework

## Sequence of courses

- General to specific
- Challenging academic standards
- Relevant technical knowledge and skills
- Embedded employability skills

## Real-world learning experiences

- Work-based learning
- Internships
- Job shadowing
- Employment

**Purpose:** To prepare students for in-demand, high wage, high skill careers in Texas.

## Industry-based certifications

## Preparation for post-secondary options:

- Enter workforce directly after high school
- Continue education
  - Training
  - Certificate
  - Associate degree
  - Bachelor's degree
  - Post-graduate degrees
- Combination of work and further education

# Statement of Non-Discrimination



# Required Public Posting

Abilene Independent School District offers career and technical education programs in Agriculture, Food, and Natural Resources; Architecture and Construction; Arts, A/V Technology, and Communications; Business, Marketing, and Finance; Education and Training; Health Science; Hospitality and Tourism; Human Services; Information Technology; Law and Public Service; Manufacturing; Engineering; Transportation, Distribution, and Logistics. Admission to these programs based on grade placement, aptitude, interest, and the availability of class space.

It is the policy of Abilene Independent School District not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

It is the policy of Abilene Independent School District not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

Abilene Independent School District will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Title IX Coordinator Alison Sims ([alison.sims@abileneisd.org](mailto:alison.sims@abileneisd.org)) or Alison Camp ([alison.camp@abilenesid.org](mailto:alison.camp@abilenesid.org)) at 241 Pine Street, Abilene, TX 79601, 325-677-1444, and/or the Section 504 Coordinator Andrea Schwertner ([andrea.schwertner@abileneisd.org](mailto:andrea.schwertner@abileneisd.org)) at 241 Pine Street, Abilene, TX 79601, 325-677-1444.



# Funding



# Federal Funding: Perkins V Grant

- Funds can only support adopted Programs of Study
- Six required uses of funds:
  - ▶ Career exploration
  - ▶ Professional development
  - ▶ Provide necessary skills for in-demand careers
  - ▶ Support integration of academic skills
  - ▶ Implementation of Programs
  - ▶ Evaluate Programs and Comprehensive Local Needs Assessment
- Must supplement, not supplant
- Cannot pay for teaching positions
- Comprehensive local needs assessment every 2 years.  
(Purpose is to drive decision-making.)

# State Funding - CTE Allocations

- Based on **contact hours in the classroom**  
(45-minute minimum class periods)
- Calculated on tiered weighted courses  
(determined by the level of the course)



# State Funding - CTE Use of Funds

At least 55% of state funds allocated for CTE must be spent on CTE

- CTE salaries
- CTE operational budget
  - CTE course expenses such as curriculum and supplies
  - Professional development
  - Student organization experiences (FFA, HOSA, SkillsUSA, TAFE, BPA, TPSA, DECA)

# Programs of Study



# 2024-25 Programs of Study (22)

- Animal Science
- Agricultural Technology & Mechanical Systems
- Culinary Arts
- Digital Communications
- Graphic Design and Interactive Media
- Accounting and Financial Services
- Business Management
- Early Learning
- Teaching and Training
- Family and Community Services
- Cosmetology\*
- Carpentry
- Electrical
- Law Enforcement
- Welding
- Engineering Foundations
- Drones\*
- Healthcare Therapeutic
- Automotive
- Networking Systems
- Cybersecurity
- Programming & Software Development

A **Program of Study** is series of progressively advanced courses that lead to preparation in a specific career. Most end in an **IBC**.

\*Note: Regional Program

# Programs of Study


- ▶ 58 Statewide Programs of Study
  - AISD currently offers 20 Statewide Programs
- ▶ 8 Approved Regional Programs of Study
  - AISD currently offers Cosmetology and Drones.
- ▶ Including IBC, Work-based Learning, post-secondary connection
- ▶ Aligned to Labor Market Information (State, Regional) (Region 9)

## Cybersecurity

Statewide Program of Study

The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and viruses and administering network security measures.

### Science, Technology, Engineering, and Mathematics Career Cluster



#### Secondary Courses for High School Credit

**Level 1**

- Foundations of Cybersecurity

**Level 2**

- Computer Science I
- Computer Maintenance
- Computer Maintenance with Lab

**Level 3**

- Networking
- Networking with Lab

**Level 4**

- Cybersecurity Capstone
- Practicum in STEM

#### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Join TSA or SKILLS USA</li></ul>	<ul style="list-style-type: none"><li>• Teach a community education class on cybersecurity tips</li><li>• Job shadow a computer system analyst or information security analyst</li></ul>

#### Postsecondary Opportunities

**Associate's Degrees**

- System Networking and LAN/WAN Management
- Information Technology
- Computer and Information Sciences, General
- Computer Science

**Bachelor's Degrees**

- Information Technology
- Computer Systems Networking and Telecommunications
- Computer and Information Sciences, General
- Computer Science

**Master's, Doctoral, and Professional Degrees**

- Computer Systems Analysis/Analyst
- Information Technology
- Computer Information Sciences, General
- Computer Science

#### Industry-Based Certifications


- CompTIA Security+

#### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Information Security Analysts	\$91,915	814	29%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer System Analysts	\$87,568	5,937	29%

Successful completion of the Cybersecurity program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised – October 2022

STEM Endorsement  
\*Advanced CTE course



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# Industry Based Certifications



# Industry Based Certifications

- [INDUSTRY BASED CERTIFICATIONS](#) TEA list
- Aligned to programs of study
- Impact A-F Accountability System
- List was subject to revision every two years  
(Will update every 5 years beginning 2025-2026.)
- AISD Reports on earned, passed, and attempted
  - State Reported IBCS:

# CTE and Accountability

- ▶ Program of study **concentrator**:

A student who successfully completes 2 or more courses for 2 or more credits within a program of study

- ▶ Program of study **completer**:

A student who successfully completes 3 or more courses for 4 or more credits, within a program of study, with at least one level 3 or 4 course

- ▶ A completer will have finished the coursework necessary to participate in an IBC test.

# CTE and Accountability (CCMR)

Annual Graduates	Accountability Year	CCMR Credit Requirement
Class of 2024	August 2025	Earn IBC (2022–2024 list) plus 1 course in aligned program of study
Class of 2025	August 2026	Earn IBC (2022-2024 & 2024-2026 lists) plus concentrator in aligned program of study with a level 2 course
Class of 2026	August 2027	Earn IBC (2022-2024 & 2024-2026 lists) plus completer in aligned program of study

Concentrator - two or more courses for at least two credits in the same program of study

Completer - three or more courses for four or more credits, including one level three or level four course in the same program of study



# CTE Expectations



# Strategic Priorities

- Establish a culture of collaboration between students, teachers, administrators and the AISD community.
- Learners will be actively engaged in classrooms.
- **Abilene ISD will develop intentional strategic partnerships which capitalize on the strengths, resources, and talents of all stakeholders.**
- Tell the AISD story of being a school district of choice that provides unparalleled opportunities for all students, staff, and parents.

# Aligned Curriculum

- District Designated Curriculum Documents
- Embedded Employability Skills
- Xello
  - Used at middle and high schools
  - Career interest Inventory
  - Career and college exploration opportunities
  - 4-year plans

# CTE Highlights



# Highlights and Achievements

- Participation in CTE courses:

<u>Year</u>	<u>Earned Credits</u>
2022-23	4,100
2023-24	3,988
2024-25	3,865

- Added dual credit health science courses for Holland students

# Successful Initiatives

- **DCOA** – NEXTU Scholarships  
Awarded \$50,399.18 (\$373,727 over the last five years)
- **Workforce Solutions** – industry job shadow experiences (84 students) and internships (5 students)
- **Houses for Healing** – Carpentry and Electrical - building a tiny home for homeless population receiving medical treatment
- **West Texas Chapter of Associated General Contractors** – Infrastructure Tours at TSTC, Tool Donation
- **Stiches for Stiches** – CHS Education and Training students made stuffies for Hendrick pediatric patients.



# Successful Initiatives/Partnerships

- **Operation Stock Show** – AHS FFA provides unique opportunities for special needs students
- **AISD Campuses** – Graphic Design, Mascot Branding
- **AISD Live** – Digital Communications, video @ Shotwell and campus fine arts and athletic events
- **AISD Planetarium** – Welding – racks and floor mount
- **AV Production Projects**  
Christmas @ the LIFT (Christmas Karaoke, North Pole Updates); Community Foundation of Abilene : AEF & Stick Horses and Capes; Arrow Ford; Dancing with the Abilene Stars; World of Work; Tige Boats
- **Hello High School** – December 2024 - Over 1,000 students participated



# Elementary Initiatives



## 2<sup>nd</sup> Grade

Careers on Wheels

Partner: City of  
Abilene



## 4<sup>th</sup> Grade

Agventure Day

Partner: AHS &  
CHS FFA Chapters



## 5<sup>th</sup> Grade

“Grit Leads to  
Greatness”

Partner: West  
Texas Chapter of  
Associated General  
Contractors



# Upcoming Initiatives

- CTE student organizations' state and national contests
- CTE Exploration Summer Camps @ The LIFT
- Expanding dual credit with TSTC
- Esports Competition at the LIFT on March 22, sponsored by Taylor Telcom

**Questions?**

