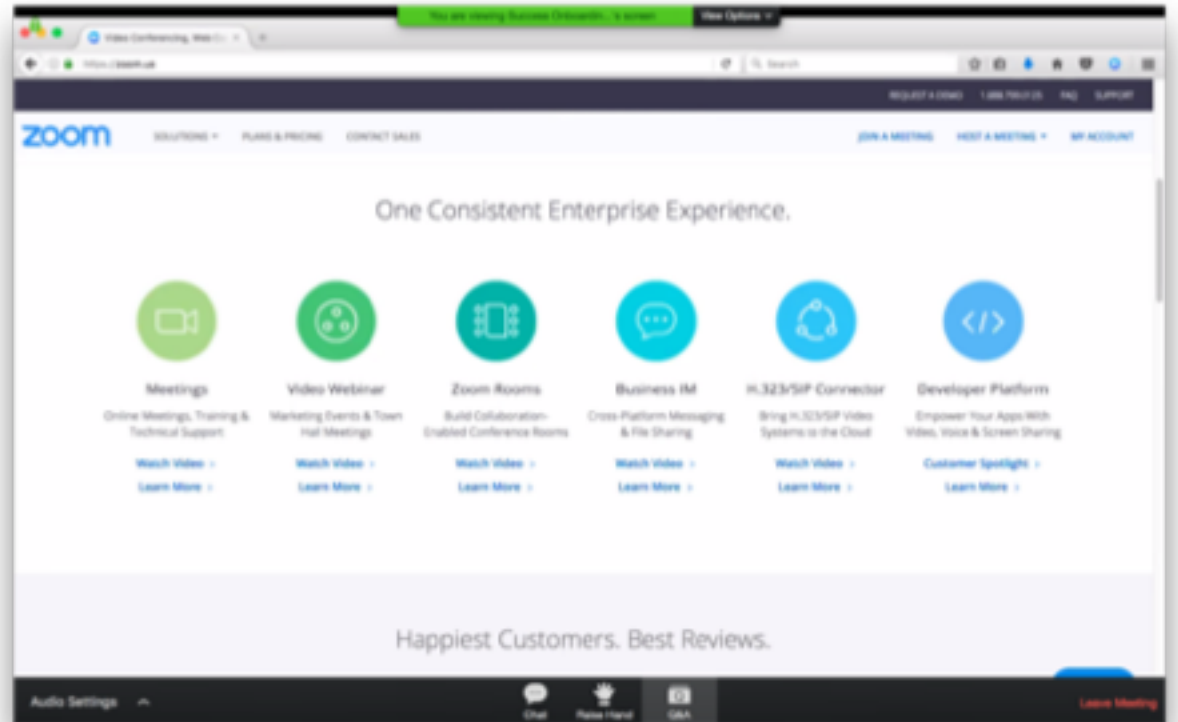


Welcome!

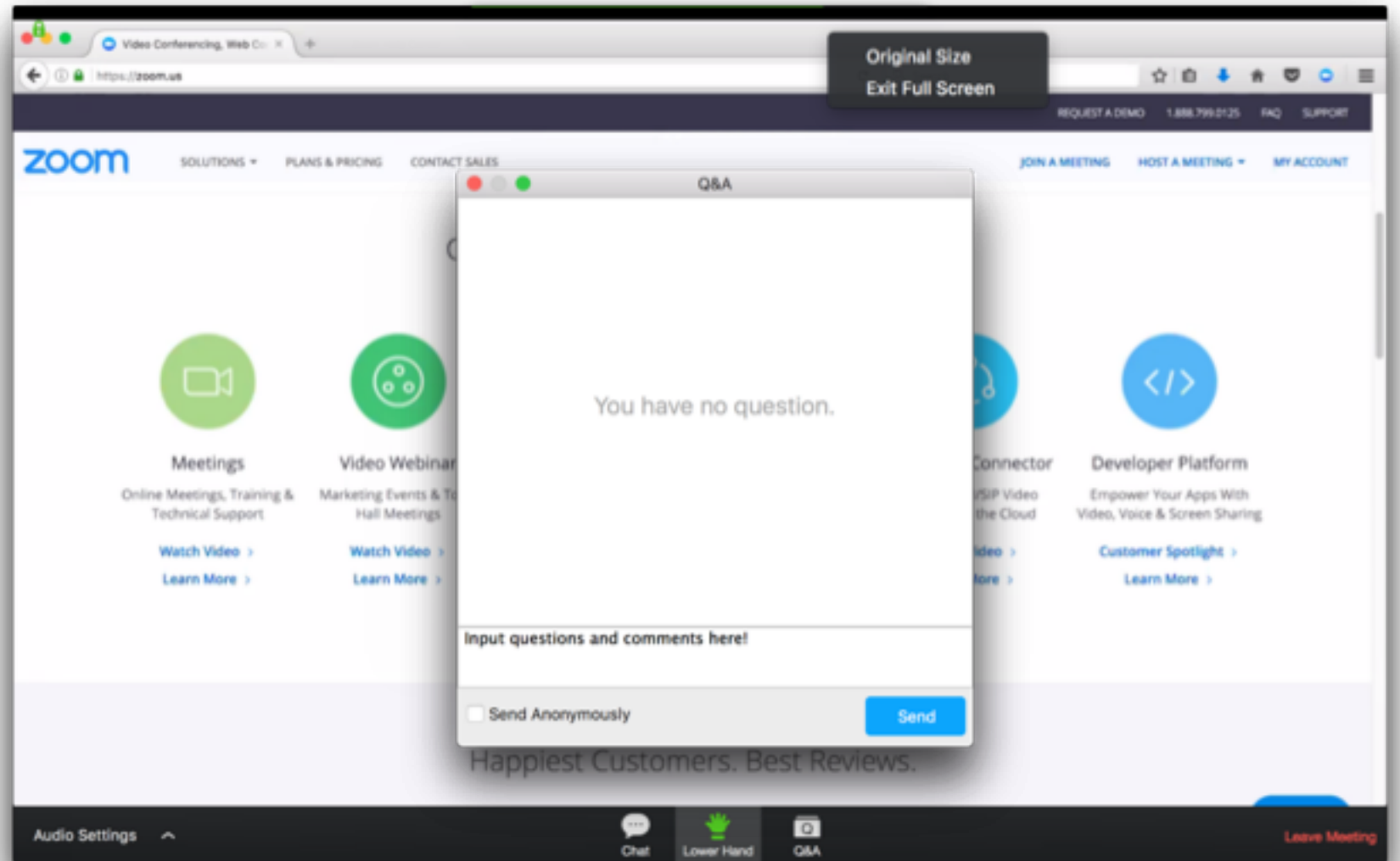
While we wait for everyone to get started...

- Use the chat box to say hello and tell us your name!
- Next, **What is your favorite Texas barbeque spot?**

We will start at 10:00 a.m.!



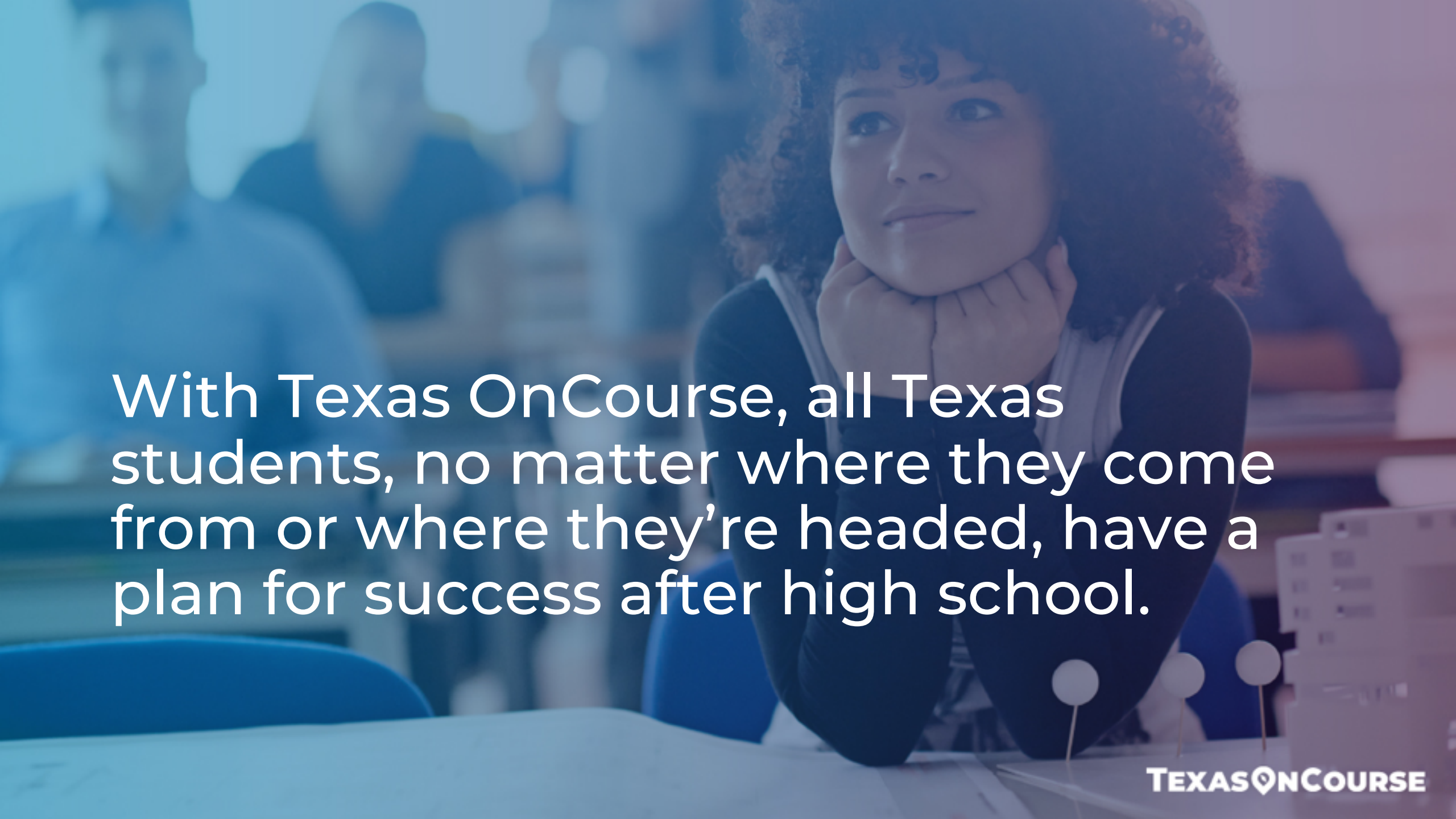
Participation and Interaction



TEXAS ONCOURSE



Understanding Statewide Programs of Study



With Texas OnCourse, all Texas students, no matter where they come from or where they're headed, have a plan for success after high school.

TEXAS ONCOURSE



**Don't forget to like and subscribe
on YouTube!**



Texas OnCourse
182 subscribers

youtube.com/c/TexasOnCourse



Agenda

- Welcome
- Texas OnCourse Resource Spotlight
 - Sam Kimmel, Content and Resources
- Texas Programs of Study
 - Jarrad Toussant, Texas Education Agency
- District Perspectives
 - Christi Barrera, San Felipe Del Rio CISD
- Questions and Discussion

Lara Gueguen

Director of Program Implementation
Texas OnCourse



Sam Kimmel

Program Coordinator – High School
Texas OnCourse



Jarrad Toussant

Division Director
College, Career, and Military Prep
Texas Education Agency



Christi Barrera

CTE Coordinator

San Felipe Del Rio CISD



A background image showing a group of diverse students sitting on bleachers in a classroom or gymnasium. They are holding papers and looking towards the camera. The image is overlaid with a semi-transparent blue and purple gradient.

What best practices have you used to help students select a best-fit programs of study?

Please type your responses in the chat box.



Resources Spotlight

Resources That Support Programs of Study Discussions



PROFESSIONAL DEVELOPMENT

Texas OnCourse

by Texas OnCourse

Educators: register or login

Curriculum Resources →

-  Curriculum
-  MiddleGalaxy
-  MapMyGrad
-  Family Guide

Popular Links

- Endorsements Basics
- Webinar: TSIA2
- Financial Aid Basics
- Future Focused TX

Resources for Students and Families →

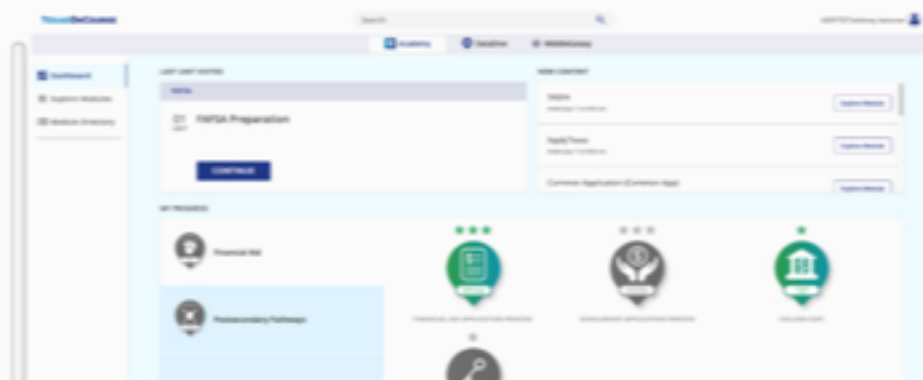
Educator Development →

-  Academy
-  Webinars
-  Blog

Additional Resources →

Free online professional development

Become the go-to source for career and college planning. The Academy has **over 30 learning modules** on endorsements, graduation plans, career pathways, entrance exams, college



Academy Dashboard

TEXASONCOURSE

Search

Academy

MiddleGalaxy

DataDive

Dashboard

Explore Modules

Module Directory

03 UNIT

Career and Technical Education (CTE) Opportunities

CONTINUE

There are no updated modules

MY PROGRESS

Financial Aid

Postsecondary Pathways

Specialties

Career Pathways

CAREER PATHWAYS: FOUNDATIONAL KNOWLEDGE

CAREER PLANNING

CAREER EXPLORATION

CAREER LEARNING EXPERIENCE

ACADEMIC PLANNING

VIEW MY BADGES AND CERTIFICATES

Where are my badges?

Support & Feedback

Web Accessibility

Glossary

Texas OnCourse Academy Modules

Career Clusters, Pathways, and Endorsements

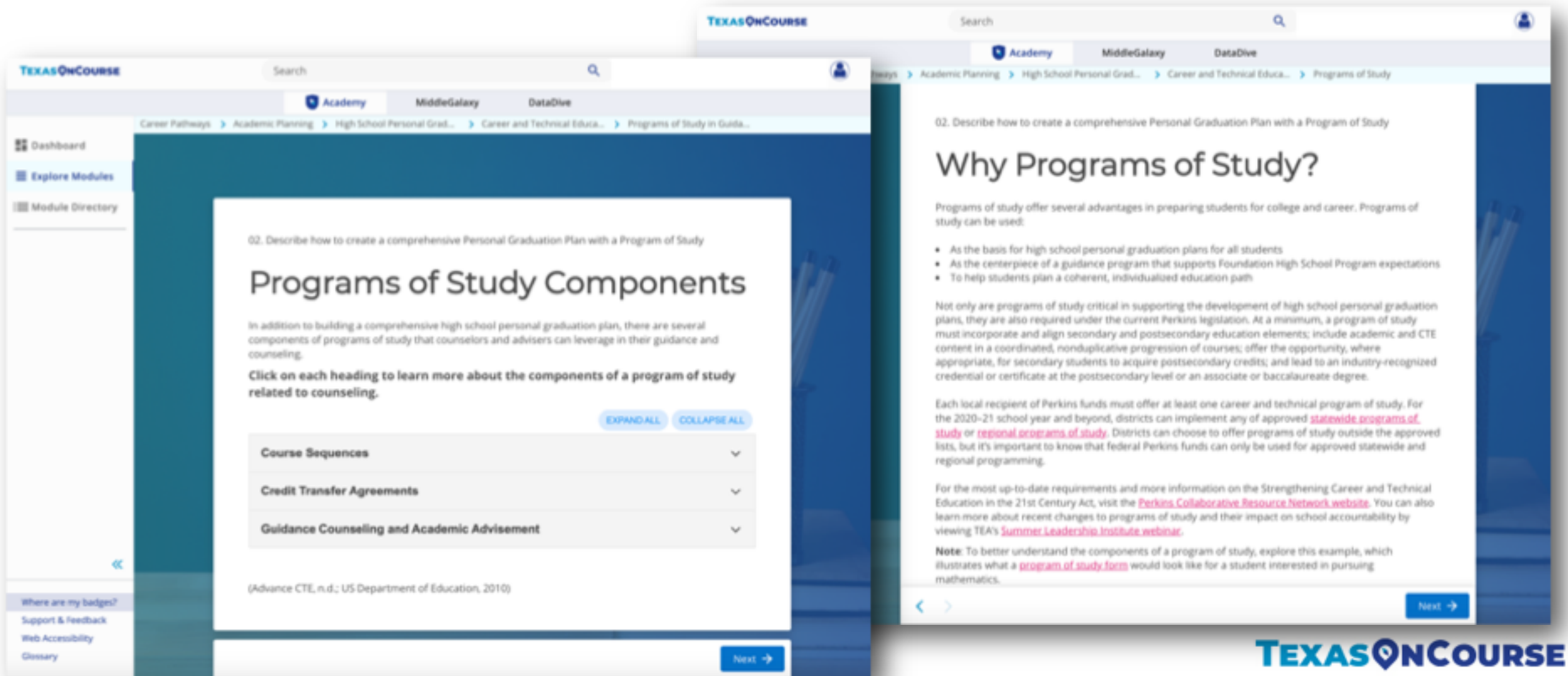
High School Personal Graduation Plan

The screenshot displays the Texas OnCourse Academy web application. The top navigation bar includes a search bar and tabs for 'Academy', 'MiddleGalaxy', and 'DataDrive'. The left sidebar contains links for 'Dashboard', 'Explore Modules', and 'Module Directory'. The main content area features a row of five module cards: 'Career Pathways: Foundational Knowledge', 'Career Exploration', 'Academic Planning' (highlighted with a red box), 'Career Planning', and 'Career Learning Experience'. Below these cards, the 'Academic Planning' module is expanded, showing a list of units: '01 Career Clusters', '02 Career Pathways', '03 Endorsements', and '04 Engaging Students and Families in the Career Clusters, Pathways, and Endorsement Selection Process'. The '02' unit is highlighted with a red box. The bottom of the page includes a footer with links for 'Where are my badges?', 'Support & Feedback', 'Web Accessibility', and 'Glossary'.

The screenshot displays the Texas OnCourse Academy web application. The top navigation bar includes a search bar and tabs for 'Academy', 'MiddleGalaxy', and 'DataDrive'. The left sidebar contains links for 'Dashboard', 'Explore Modules', and 'Module Directory'. The main content area features a row of five module cards: 'Career Pathways: Foundational Knowledge', 'Career Exploration', 'Academic Planning' (highlighted with a red box), 'Career Planning', and 'Career Learning Experience'. Below these cards, the 'Academic Planning' module is expanded, showing a list of units: '01 Understanding a High School Personal Graduation Plan', '02 Four Parts of the Foundation High School Program', '03 Career and Technical Education (CTE) Opportunities', '04 Additional High School Personal Graduation Plan Tips', and '05 Engaging Students and Families in the High School Personal Graduation Plan Process'. The '02' unit is highlighted with a red box. The bottom of the page includes a footer with links for 'Where are my badges?', 'Support & Feedback', 'Web Accessibility', and 'Glossary'.

High School Personal Graduation Plan

Unit 3: Career and Technical Education



The image displays two overlapping screenshots of the TexasOnCourse website. The left screenshot shows the 'Programs of Study Components' page, which includes a sidebar with navigation links like 'Dashboard', 'Explore Modules', and 'Module Directory'. The main content area features a heading 'Programs of Study Components' and a list of components: 'Course Sequences', 'Credit Transfer Agreements', and 'Guidance Counseling and Academic Advisement'. The right screenshot shows the 'Why Programs of Study?' page, which explains the advantages of programs of study and provides a list of reasons why they are critical. Both pages include a 'Next' button at the bottom right.

TEXASONCOURSE

Search

Academy Middle Galaxy DataDive

Career Pathways > Academic Planning > High School Personal Grad... > Career and Technical Educa... > Programs of Study in Guida...

Dashboard

Explore Modules

Module Directory

02. Describe how to create a comprehensive Personal Graduation Plan with a Program of Study

Programs of Study Components

In addition to building a comprehensive high school personal graduation plan, there are several components of programs of study that counselors and advisers can leverage in their guidance and counseling.

Click on each heading to learn more about the components of a program of study related to counseling.

EXPAND ALL COLLAPSE ALL

- Course Sequences
- Credit Transfer Agreements
- Guidance Counseling and Academic Advisement

(Advance CTE, n.d.; US Department of Education, 2010)

Next →

TEXASONCOURSE

Search

Academy Middle Galaxy DataDive

Academic Planning > High School Personal Grad... > Career and Technical Educa... > Programs of Study

02. Describe how to create a comprehensive Personal Graduation Plan with a Program of Study

Why Programs of Study?

Programs of study offer several advantages in preparing students for college and career. Programs of study can be used:

- As the basis for high school personal graduation plans for all students
- As the centerpiece of a guidance program that supports Foundation High School Program expectations
- To help students plan a coherent, individualized education path

Not only are programs of study critical in supporting the development of high school personal graduation plans, they are also required under the current Perkins legislation. At a minimum, a program of study must incorporate and align secondary and postsecondary education elements; include academic and CTE content in a coordinated, nonduplicative progression of courses; offer the opportunity, where appropriate, for secondary students to acquire postsecondary credits; and lead to an industry-recognized credential or certificate at the postsecondary level or an associate or baccalaureate degree.

Each local recipient of Perkins funds must offer at least one career and technical program of study. For the 2020-21 school year and beyond, districts can implement any of approved [statewide programs of study](#) or [regional programs of study](#). Districts can choose to offer programs of study outside the approved lists, but it's important to know that federal Perkins funds can only be used for approved statewide and regional programming.

For the most up-to-date requirements and more information on the Strengthening Career and Technical Education in the 21st Century Act, visit the [Perkins Collaborative Resource Network website](#). You can also learn more about recent changes to programs of study and their impact on school accountability by viewing TEA's [Summer Leadership Institute webinar](#).

Note: To better understand the components of a program of study, explore this example, which illustrates what a [program of study form](#) would look like for a student interested in pursuing mathematics.

Next →

TEXASONCOURSE

Accessing TEA Brochures

Unit 3: Career and Technical Education

The image displays two screenshots of the TexasOnCourse website interface, illustrating the steps to access TEA brochures.

Left Screenshot: The 'Academy' tab is selected. The 'Module Directory' on the left shows a list of units. A red arrow points to the 'Programs of Study' link, which is highlighted with a red box. Below this link, a list of sub-topics is visible: 'Programs of Study in Guidance and Counseling', 'Certificates and Licensure', 'Licensing', 'Types of Certificates', and 'Test Your Mastery'.

Right Screenshot: The 'Programs of Study' page is displayed. The 'Why Programs of Study?' section is visible. A red arrow points to the text 'statewide programs of study or regional programs of study', which is highlighted with a red box. The text below this link states: 'Each local recipient of Perkins funds must offer at least one career and technical program of study. For the 2010-11 school year and beyond, districts can implement any of the following: statewide programs of study or regional programs of study. Districts can choose to offer programs of study outside the approved lists, but it's important to know that federal Perkins funds can only be used for approved statewide and regional programming.'

TEA Program of Study Frameworks

- Relevant course sequences
- Educational pathways
- Extended learning opportunities
- Relevant careers



Level 1	Principles of Information Technology
Level 2	Web Communications Computer Science I Foundations of User Experience (UX)
Level 3	Web Design Web Game Development Advanced User Experience Design
Level 4	Practicum in Information Technology Practicum in Entrepreneurship (TBO) Independent Study in Technology Applications Independent Study in Evolving/Emerging Technologies Project Based Research Career Preparation

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Oracle Certified Associate Java SE 8	ACM i Developer	Computer Programming/ Programmer, General	Web/ Multimedia Management and Webmaster	Computational Science
WD-Certified Web Design Certification	Certified Webmaster Professional	Computer Science	Computer Science	Computer Science
Microsoft Technology Associate Introduction to Programming Certifications	Adobe Campaign Developer	Web Page, Digital/ Multimedia and Information Resources Design	Web Page, Digital/ Multimedia and Information Resources Design	Information Science/ Studies
	IBM Certified Solution Developer – Open Social	Computer Systems Networking and Telecommunications	Computer Systems Networking and Telecommunications	Computer Systems Networking and Telecommunications

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

Occupations	Median Wage	Annual Openings	% Growth
Web Developers	\$67,812	1,079	39%
Web Administrators, Computer Occupations	\$85,197	1,626	20%
Software Developers	\$104,699	6,311	30%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	Work Based Learning Activities:
Join TSA Participate in a coding or computer programming club Create a web page	Get an Oracle or CISCO Certification

The Web Development program of study explores the occupations and educational opportunities associated with designing, creating, and modifying websites. This program of study may also explore integrating websites with other computer applications, and converting written, graphic, audio, and video components to compatible web formats by using software designed to facilitate the creation of web and multimedia content.

Texas OnCourse Academy Modules

Additional Resources

[Pinterest.com/TexasOnCourse](https://www.pinterest.com/TexasOnCourse)

The screenshot shows the Texas OnCourse Academy Modules page. On the left, a list of modules is visible: 01 UNIT Understanding a High School..., 02 UNIT Four Parts of the Foundation..., 03 UNIT Career and Technical Education..., 04 UNIT Additional High School Personal..., and 05 UNIT Engaging Students and Families... At the bottom of this list, the 'Additional Resources' link is highlighted with a red box. A red arrow points from this link to a pop-up window titled 'Additional Resources'. The pop-up displays a search bar with 'HS PGP - All TX' and a list of resources under the heading 'HIGH SCHOOL PERSONAL GRADUATION PLAN'. The list includes: HS PGP - All (checked), HS PGP - Introduction, HS PGP - Unit 1, HS PGP - Unit 2, and HS PGP - Unit 3. To the right of the list, there is a featured article titled 'Postsecondary Preparation Tips for High School Students | Texas OnCourse' with a PDF icon and a date of April 26, 19.

Additional Resources

01 UNIT Understanding a High School...

02 UNIT Four Parts of the Foundation...

03 UNIT Career and Technical Education...

04 UNIT Additional High School Personal...

05 UNIT Engaging Students and Families...

Additional Resources >

References >

High School Personal Graduation Plan

- HS PGP - All
- HS PGP - Introduction
- HS PGP - Unit 1
- HS PGP - Unit 2
- HS PGP - Unit 3

Postsecondary Preparation Tips for High School Students | Texas OnCourse

PDF

Apr 26, 19

The Pinterest pin features a collage of images related to college and career readiness, including text like 'UNIVERSAL COLLEGE APPLICATION', 'SCHOLARSHIP APPLICATION', 'QUEST-RIGIDE', 'MILITARY ACADEMY APPLICATION', and 'SS PROF'. Below the collage is the Texas OnCourse logo, a blue location pin icon with a white 'T'. The text reads: 'Texas OnCourse | College and Career Readiness for All TX Students'. It also mentions '51.9k monthly viewers' and includes a 'Follow' button. At the bottom, it says 'texasoncourse.org' and provides a description: 'With Texas OnCourse, every high school graduate, no matter where they come from or where they're headed, has a plan for what's next.'

UNIVERSAL COLLEGE APPLICATION

SCHOLARSHIP APPLICATION

QUEST-RIGIDE

MILITARY ACADEMY APPLICATION

SS PROF

Texas OnCourse | College and Career Readiness for All TX Students

51.9k monthly viewers

texasoncourse.org

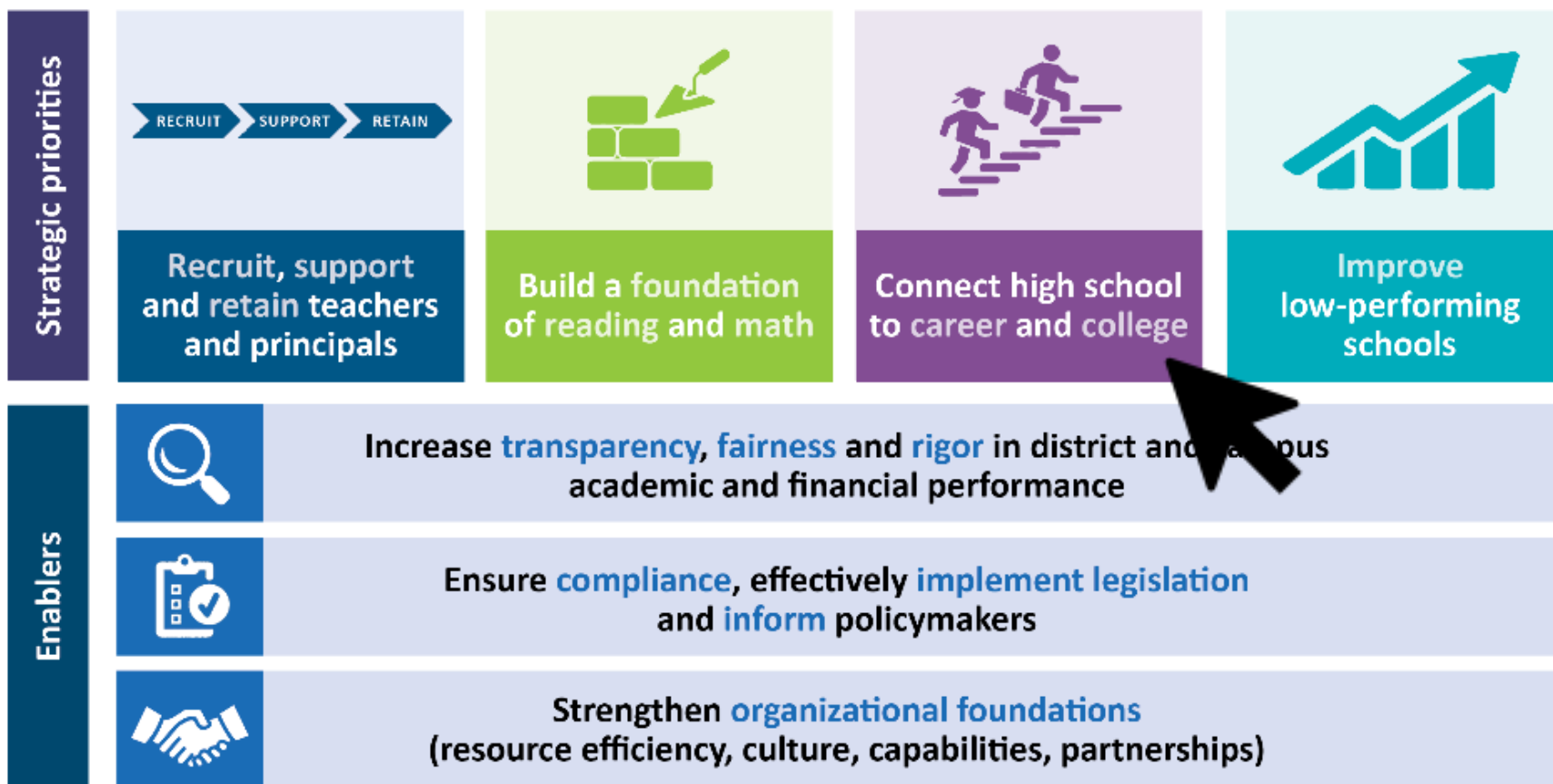
With Texas OnCourse, every high school graduate, no matter where they come from or where they're headed, has a plan for what's next.

Statewide Secondary Career and Technical Education

Programs of Study

Texas Education Agency Strategic Priorities

Every child, prepared for success in college, a career or the military.







Session Objectives

- Understand Perkins V Requirements
- Learn Benefits of Programs of Study
- Understand CTE Data Available
- Understand Available Program of Study Resources

How does this agenda impact students?

- The labor market data provides the district pathway planners with useful information in **shaping the pathways**. 
- The labor market data provides **academic teachers** with information related to the **occupational opportunities** that exist in the community allowing them to provide valuable **career counseling** for students.
- Sharing labor market information related to the in-demand, high wage occupations will **assist students in post-secondary planning**. 
- Providing teachers, even academic teachers, with **externship opportunities**, in the in-demand, high wage career fields will help them **tie academic instruction to occupational skills and knowledge** required for post-secondary student success.

CTE Common Terminology

Perkins V

Definition

Federal Grant providing \$1.3 billion (\$110 million for Texas) annually for CTE programs nationwide.

- Calls for expanded opportunities for every student to explore, choose, and follow a CTE programs of study aligned with state or regional labor market information
- Introduces a comprehensive local needs assessment that requires data-driven decision making on local spending
- Lifts the restriction on spending funds below grade 7 and provides support for career exploration in grades 5-8)
- Defines who is included in the accountability system by including a formal definition of a "CTE concentrator"

Program of Study

Definition

Perkins V describes a program of study as a coordinated, nonduplicative sequence of academic and technical content that:

- Incorporates challenging academic standards
- Addresses academic, technical, and employability skills
- Aligns with the needs of industries in the state, regional, and/or local economy
- Progresses in specificity, beginning with all aspects of industry and leading to more occupation specific instruction
- Has multiple entry and exit points that incorporate credentialing
- Culminates in the attainment of a recognized postsecondary credential

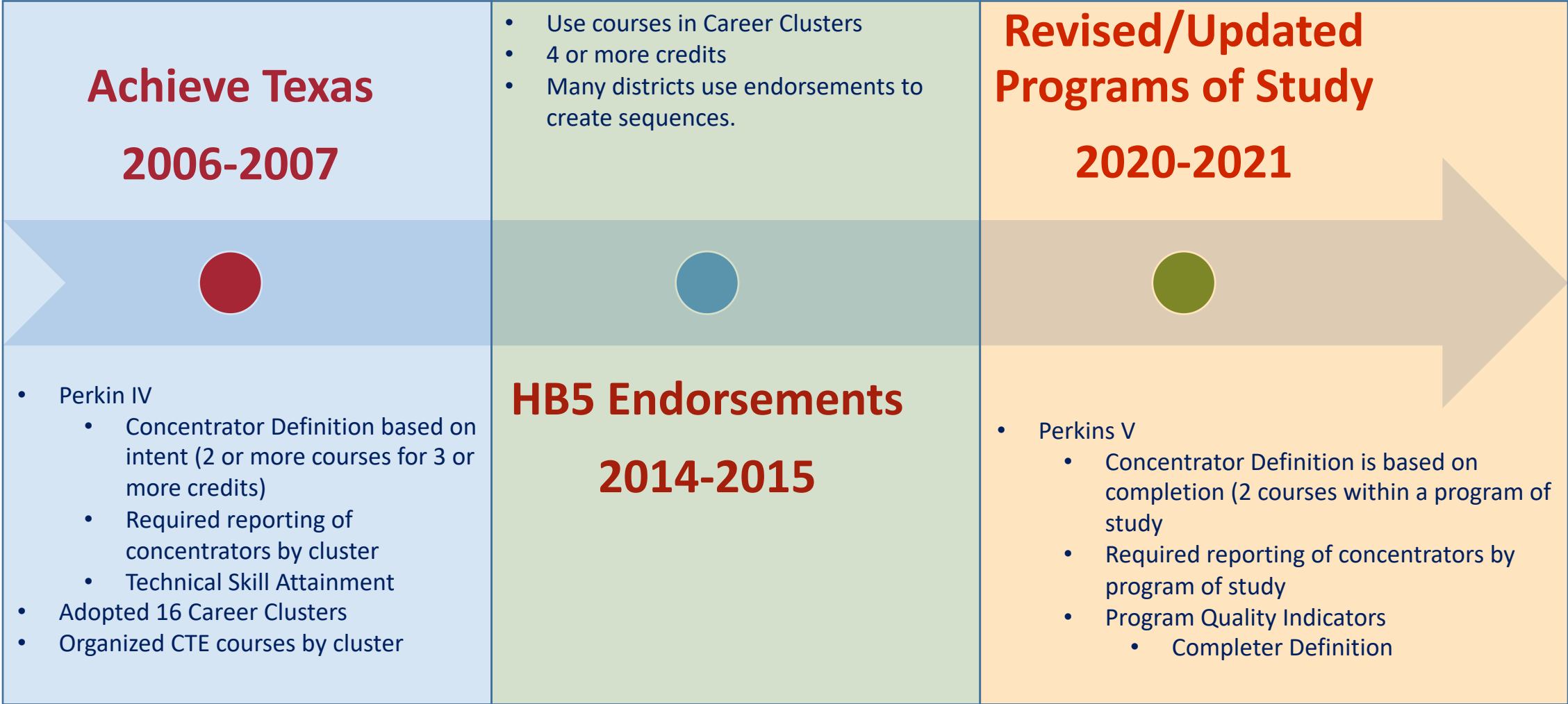
Industry-Based Certification

Definition

A validation that an individual possesses certain skills, usually related to an occupation and measured against a set of accepted standards.

- An individual earns a certification by successfully passing a test or battery of tests.
- An occupation may have multiple certifications, with different levels of expertise.
- Certifications are not administered by an institution of higher education; instead, certifications are administered by a certification body (trade association or industry-approved testing entity).

History of Texas Programs of Study



Why Programs of Study?



Program of Study Elements

Coordinated, non-duplicative sequence of academic and technical content

Addresses academic and technical knowledge, as well as employability skills

Alignment to the needs of the state, region, Tribal community, or local area

Courses that progress in content specificity

Multiple "entry and exit points" that allow for credentialing

Culminates in the attainment of a recognized postsecondary credential

Benefits of Programs of Study



Provides students a career path with **opportunities** to continue directly into **postsecondary** and the **workforce**



Aligns **education** to the **regional economy** building off of the diverse needs of the Texas' economy



Ability to develop stronger TEKS by utilizing a **gap analysis** between course standards and job skills



Allows for **flexibility** in alignment of teacher certifications to the course sequencing



Allows for better **data collection** and reporting of CTE concentrators for districts

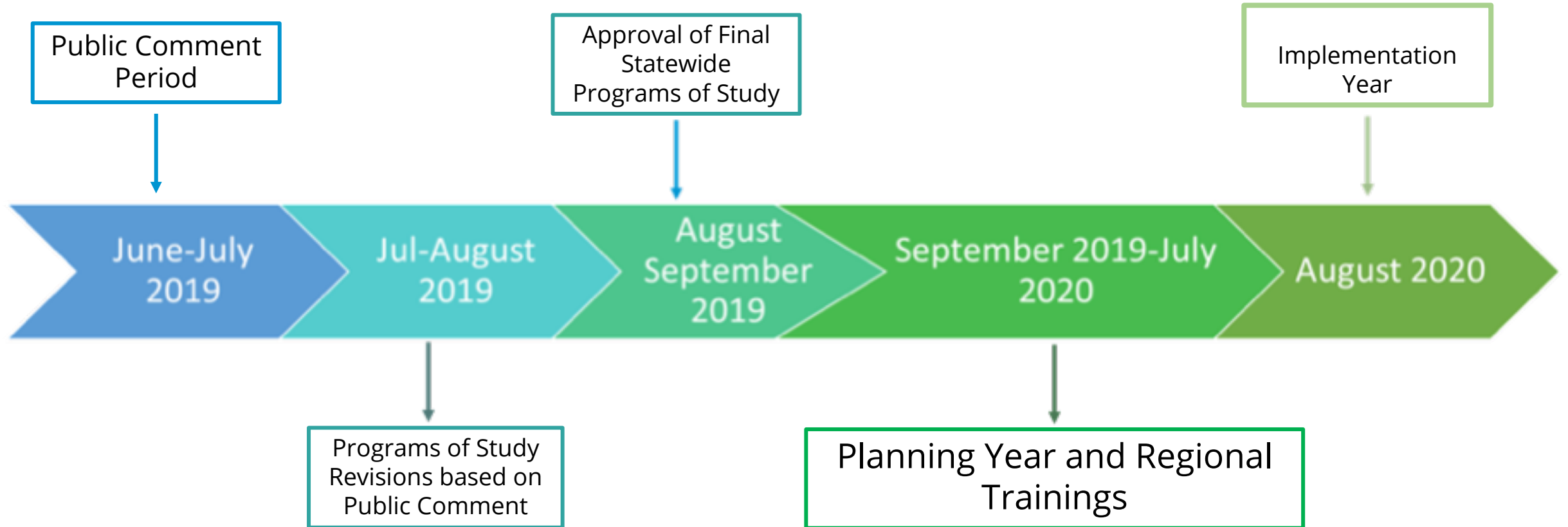
Program of Study Methodology

Course sequencing designed to align to Texas's diverse economy

- Identified high wage, in-demand occupations in Texas
 - Triangulation of labor market information
- Grouped similar occupations together
- Aligned with postsecondary training for advancement in careers



Programs of Study Timeline





Programs of Study

Using Labor Market
Information (LMI) 53
Statewide Programs of
Study were developed for
implementation in the 2020-
2021 school year.

Career & Technical Education Statewide Programs of Study	
Program of Study	Career Cluster
Agribusiness	Agriculture, Food and Natural Resources
Animal Science	Agriculture, Food and Natural Resources
Applied Agricultural Engineering	Agriculture, Food and Natural Resources
Environmental and Natural Resources	Agriculture, Food and Natural Resources
Food Science and Technology	Agriculture, Food and Natural Resources
Plant Science	Agriculture, Food and Natural Resources
Architectural Design	Architecture and Construction
Carpentry	Architecture and Construction
Construction Management and Inspection	Architecture and Construction
Electrical	Architecture and Construction
HVAC and Sheet Metal	Architecture and Construction
Masonry	Architecture and Construction
Plumbing and Pipefitting	Architecture and Construction
Design and Multimedia Arts	Arts, Audio Visual Technology and Communication
Digital Communications	Arts, Audio Visual Technology and Communication
Accounting and Financial Services	Business, Marketing and Finance
Business Management	Business, Marketing and Finance
Entrepreneurship	Business, Marketing and Finance
Marketing and Sales	Business, Marketing and Finance
Early Learning	Education and Training
Teaching and Training	Education and Training
Oil and Gas Exploration and Production	Energy
Refining and Chemical Processes	Energy
Exercise Science and Wellness	Health Science
Health Informatics	Health Science
Healthcare Diagnostics	Health Science
Healthcare Therapeutic	Health Science
Medical Therapy	Health Science
Nursing Science	Health Science
Culinary Arts	Hospitality and Tourism
Lodging and Resort Management	Hospitality and Tourism
Travel, Tourism, and Attractions	Hospitality and Tourism
Family and Community Services	Human Services
Health and Wellness	Human Services
Information Technology Support and Services	Information Technology
Networking Systems	Information Technology
Web Development	Information Technology
Emergency Services	Law and Public Service
Government and Public Administration	Law and Public Service
Law Enforcement	Law and Public Service
Legal Studies	Law and Public Service
Advanced Manufacturing and Machinery Mechanics	Manufacturing
Manufacturing Technology	Manufacturing
Welding	Manufacturing
Bio-Medical Science	Science, Technology, Engineering and Math
Cybersecurity	Science, Technology, Engineering and Math
Engineering	Science, Technology, Engineering and Math
Programming and Software Development	Science, Technology, Engineering and Math
Renewable Energy	Science, Technology, Engineering and Math
Automotive	Transportation, Distribution and Logistics
Aviation Maintenance	Transportation, Distribution and Logistics
Diesel and Heavy Equipment	Transportation, Distribution and Logistics


Program of Study Implementation Considerations

- Perkins funds can be used to **support** statewide or approved regional programs of study
- The **course sequences** within each program of study will be used for federal reporting of CTE concentrators
- The new federal definition for a CTE concentrator, as outlined in Perkins V, is the **completion of two courses** (for two or more credits) within a program of study
- CTE completer definition: the **completion of three or more courses for four or more credits** within a program of study including one level three or level four course

Career & Technical Education Indicator Definitions

Sam Brown
Leander ISD

Career Interest: Trying to find a career that is interesting



Courses completion records:
• Money Matters:
• Principles of Con
• Child Developme

Amber Martin
Austin ISD


Career Interest: Considering being an elementary school teacher



Courses completion records:

Joe Williams
Georgetown ISD


Career Interest: Thinking about finding a job in construction trades



Courses completion records:
• Accounting: 1 credit

John Thomas
Round Rock ISD


Career Interest: Plans to pursue a career as a CPA



Courses completion records:
• Money Matters: 1 credit
• Accounting: 1 credit

Jennifer Garcia
Liberty Hill ISD

Career Interest: Plans to enlist in the Army



Courses completion records:
• Accounting: 1 credit

Non-CTE Learners

CTE Learners



Not CTE

A student who never enrolled or who did not complete any high school CTE course



CTE Participant

A student that completes 1, but not 2 or more CTE courses



CTE Explorer

A student that completes 2 or more CTE courses for at least 2 credits not within the same program of study



CTE Concentrator

A student that completes/passes/receives credit in 2 or more CTE courses for at least 2 credits within the same program of study



CTE Completer

A student that completes/passes/receives credit in 3 or more CTE courses for at least 4 credits including 1 level 3 or level 4 course within the same program of study







Debrief Program of Study Overview

1. What are the benefits of implementing a statewide program of study?
2. What are some challenges of implementing a POS?
3. Who should be involved in decision making of the POS that will be implemented?

Data Collection and Reporting



CTE Data Reliability

 Perkins IV			Perkins V 
District Self-Reported through PEIMS Using Locally Developed Programs of Study	 Data Source		Auto-Calculated Using Existing Certified PEIMS Course Completion Records and Statewide or approved Regional Programs of Study
<ul style="list-style-type: none"> • Greater District Workload • Based on Student Intent • Not Equitable Across the State 	 Problems	 Benefits	<ul style="list-style-type: none"> • District Workload Reduction • Based on Course Completion • Comparable Across Districts

Local Application for Funding: What is Required of Districts

Needs Assessment

Identify areas of strength in CTE systems/programs

Identify areas of weakness and gaps in CTE systems/programs

Informed/validated by stakeholders and industry partners

Local Application

Lay out eligible recipient's vision or theory of action for CTE

Identify strategies, solutions, and investments to sustain and scale strengths in CTE system/programs

Identify strategies, solutions, and investments to address weakness and gaps in CTE system/programs

Core Indicators of Performance

1S1: Four-Year Graduation Rate

1S2: Extended Graduation Rate

2S1: Academic Proficiency in
Reading/Language Arts

2S2: Academic Proficiency in
Mathematics

2S3: Academic Proficiency in Science

3S1: Postsecondary Placement

4S1: Non-traditional Program
Enrollment

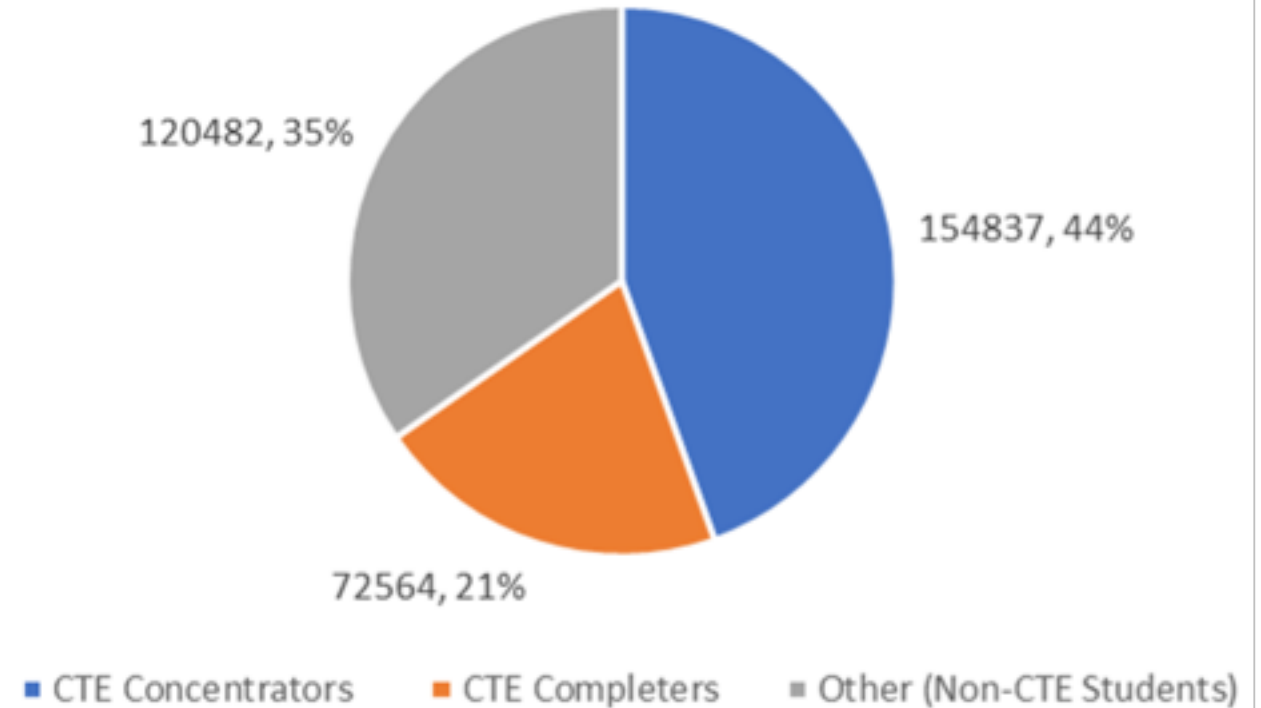
5S1: Attained recognized
Postsecondary Credential

5S4: Program Quality: CTE
Completer

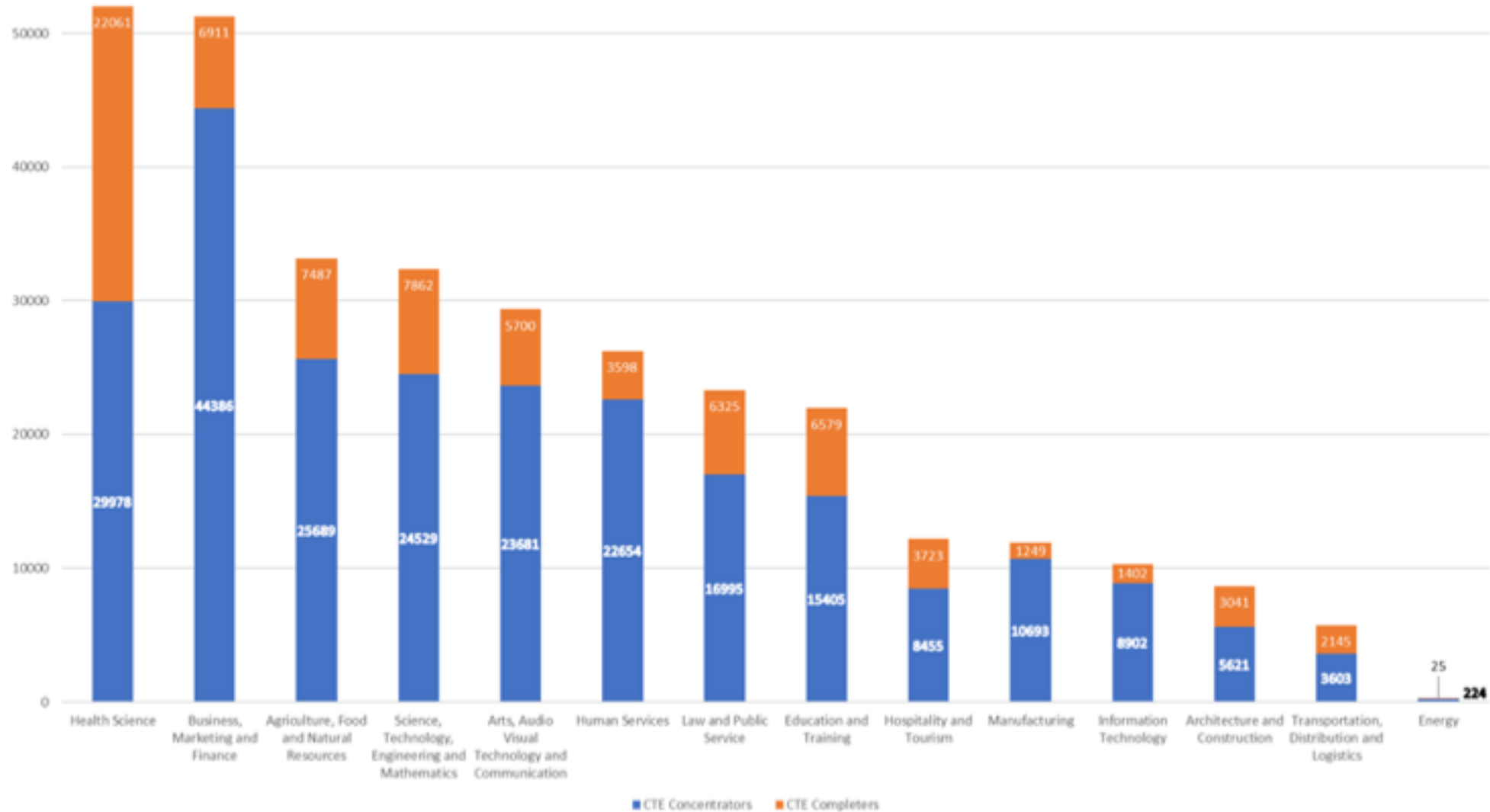
Perkins V Baseline Data

2017-2018 Graduation Cohort

- CTE Indicator Code Calculated using:
 - Course completion records from previous seven years
 - Statewide programs of study course sequences
- Provides opportunity to use data to improve student outcomes



CTE Concentrators & Completers by Cluster 2017-18 Cohort



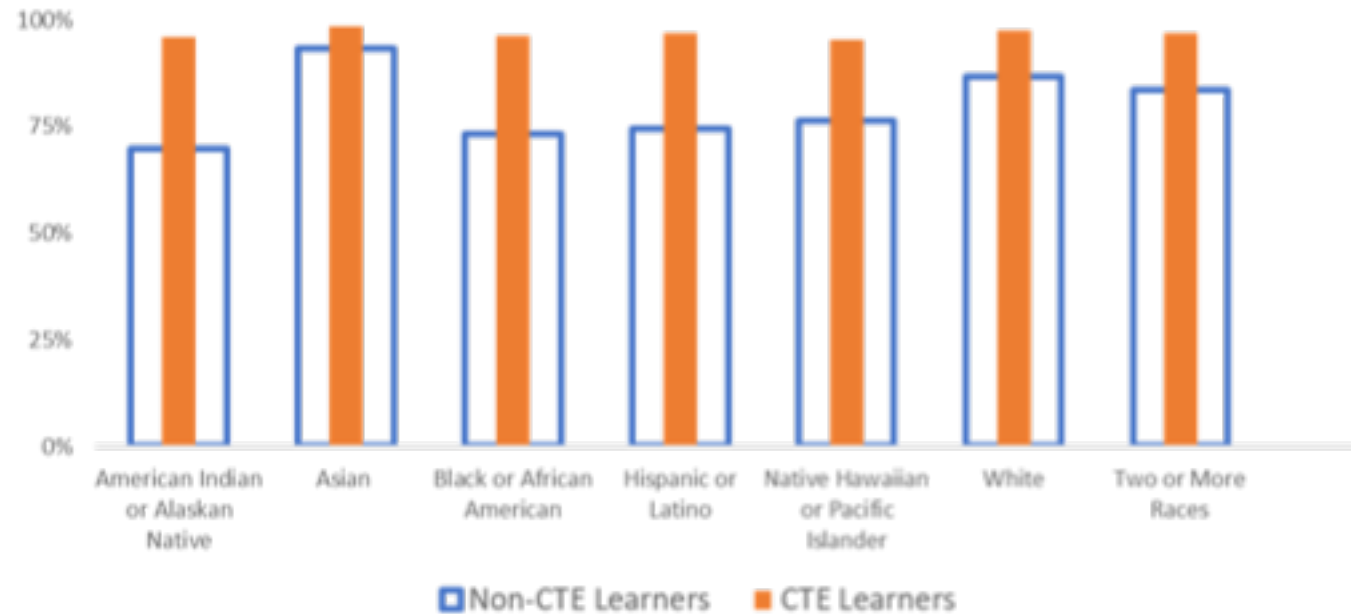
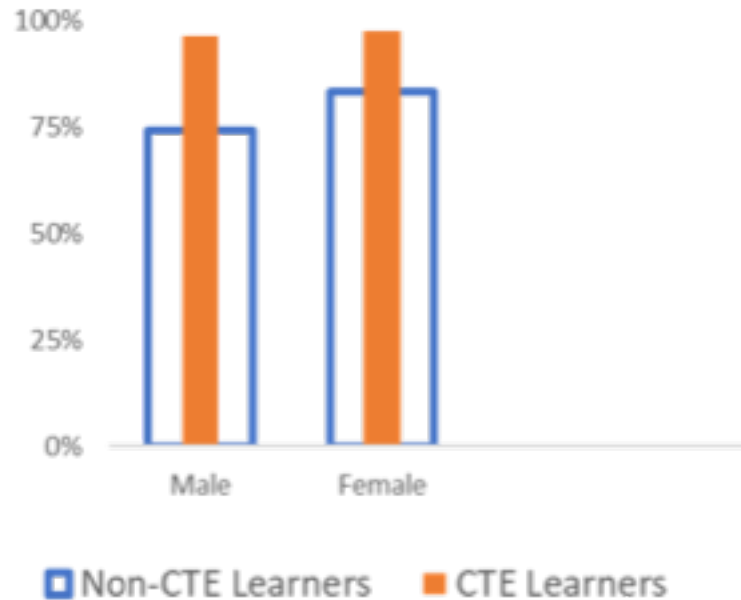
1S1: Graduation Rate (2017-18 cohort)

97.02%

Of CTE Learners (Concentrators + Completers) graduated in four years

78.60%

Of Non-CTE Learners (Explorers, Participants, Not CTE) graduated in four years



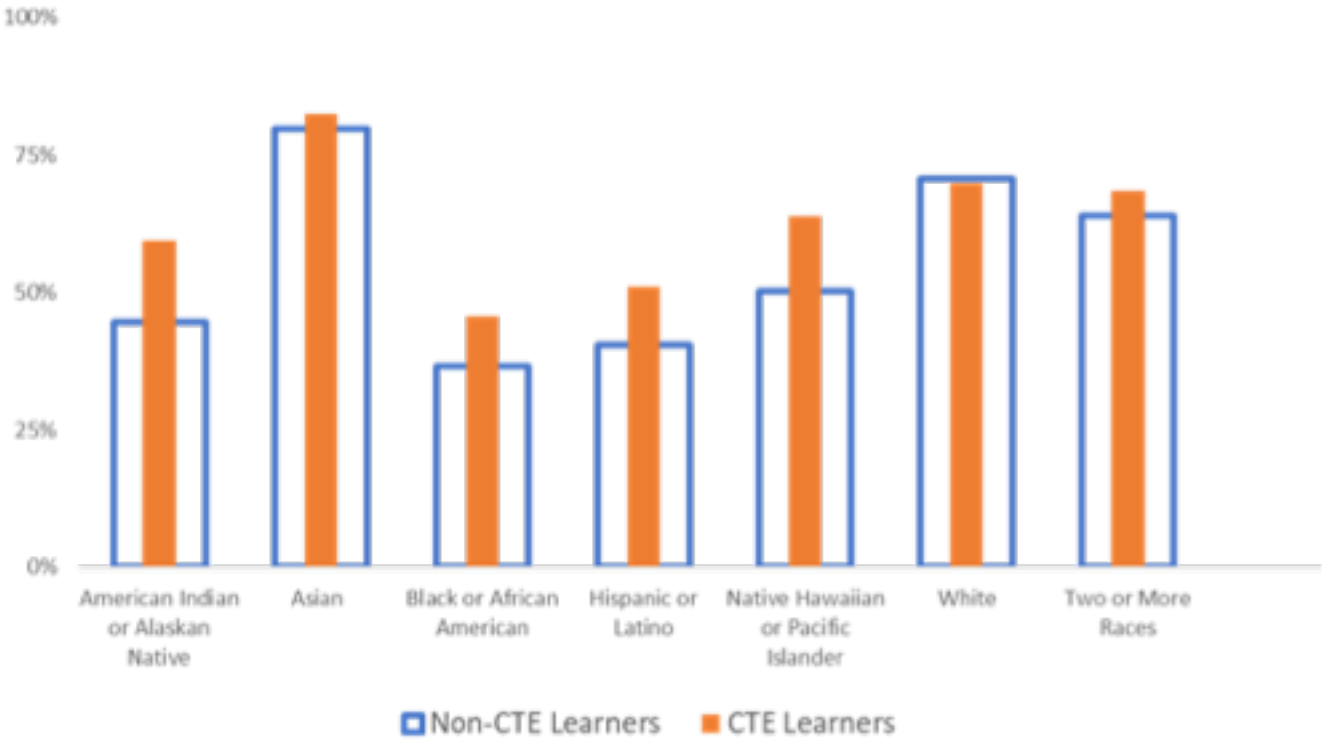
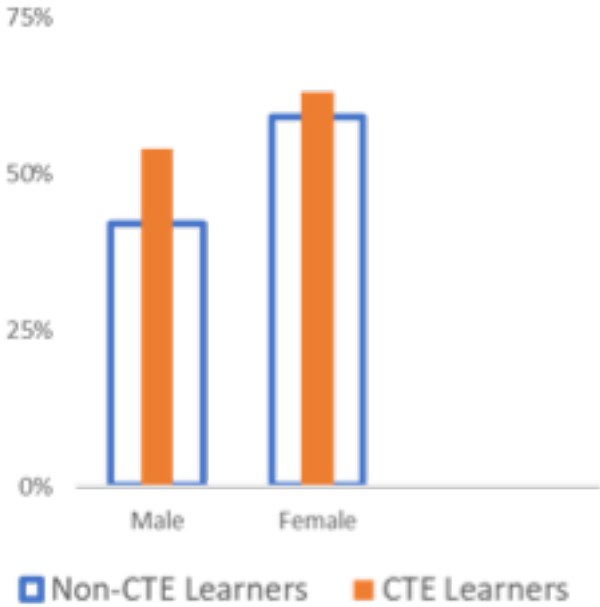
2S1: Academic Proficiency in Reading/Language Arts (2017-18 cohort)

58.13%

Of CTE Learners met or exceeded standard on the English I and English II EOC exam

50.63%

Of Non-CTE Learners met or exceeded standard on the English I and English II EOC exam



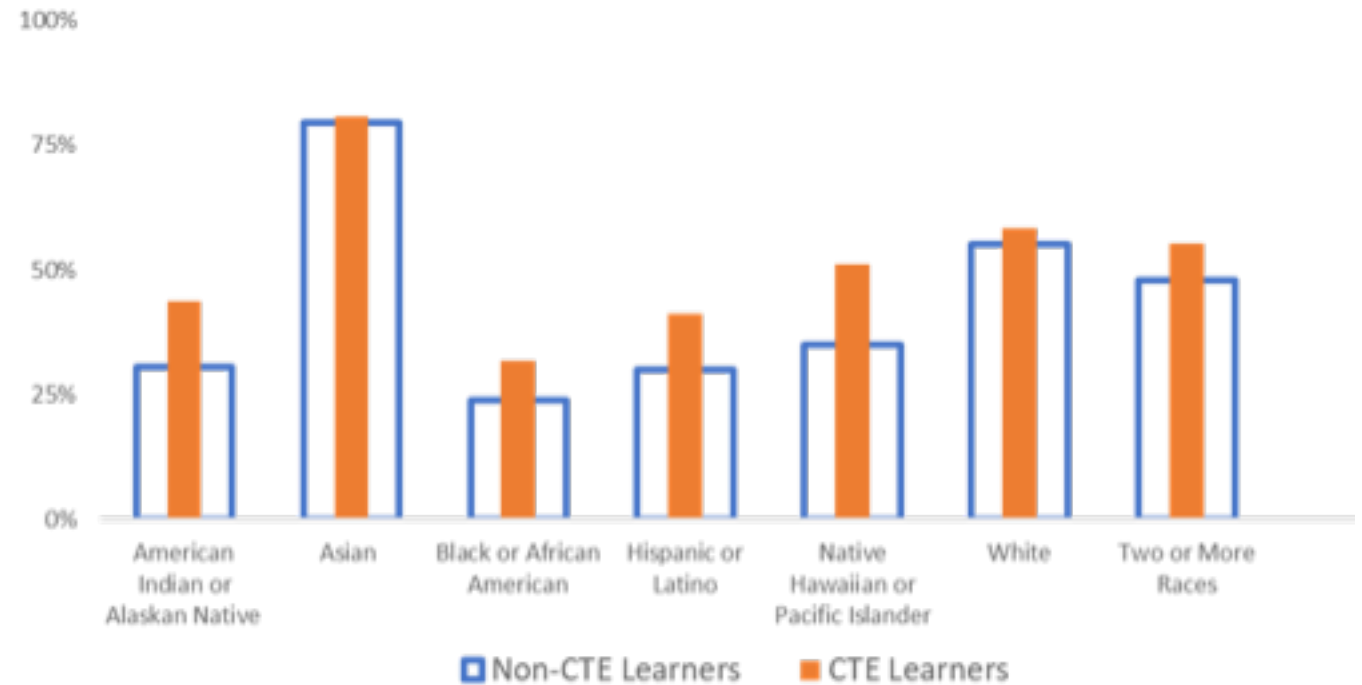
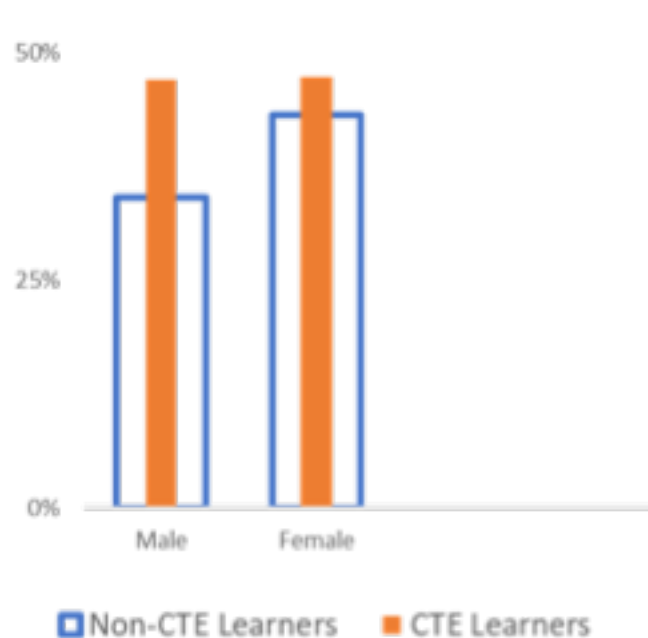
Academic Proficiency in Math

47.27%

Of CTE concentrators met or exceeded standard on the Algebra I EOC exam

38.52%

Of all others met or exceeded standard on the Algebra I EOC exam



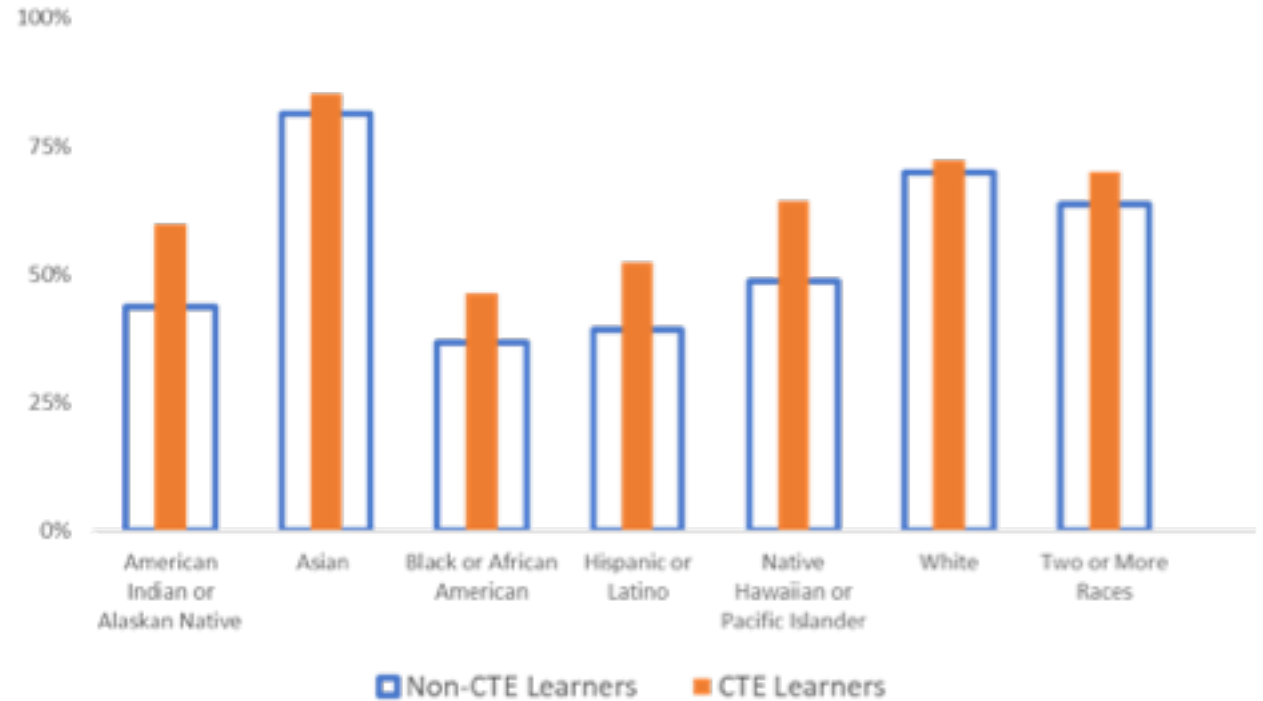
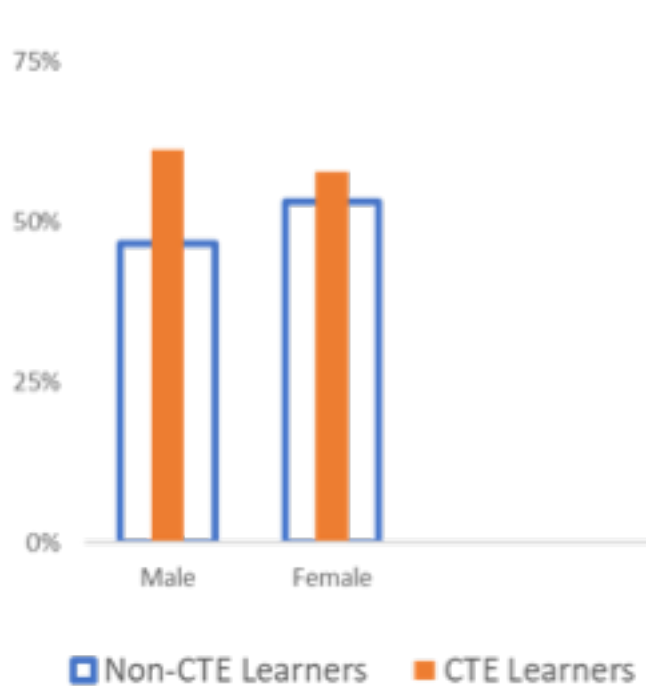
Academic Proficiency in Science

59.62%

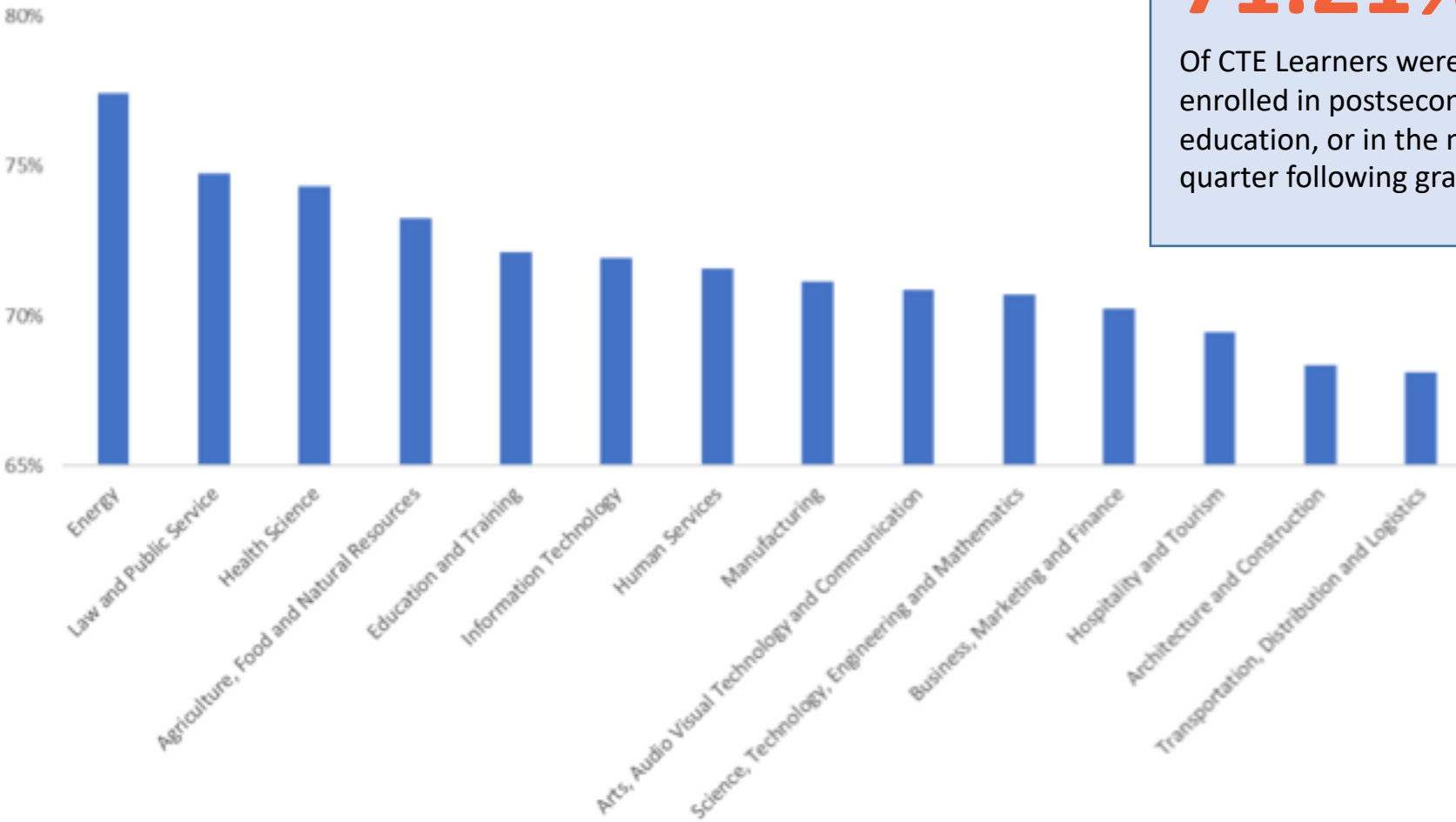
Of CTE concentrators met or exceeded standard on the Biology I EOC exam

49.82%

Of all others met or exceeded standard on the Biology I EOC exam



3S1: Postsecondary Placement, by Cluster (2017- 2018 cohort)



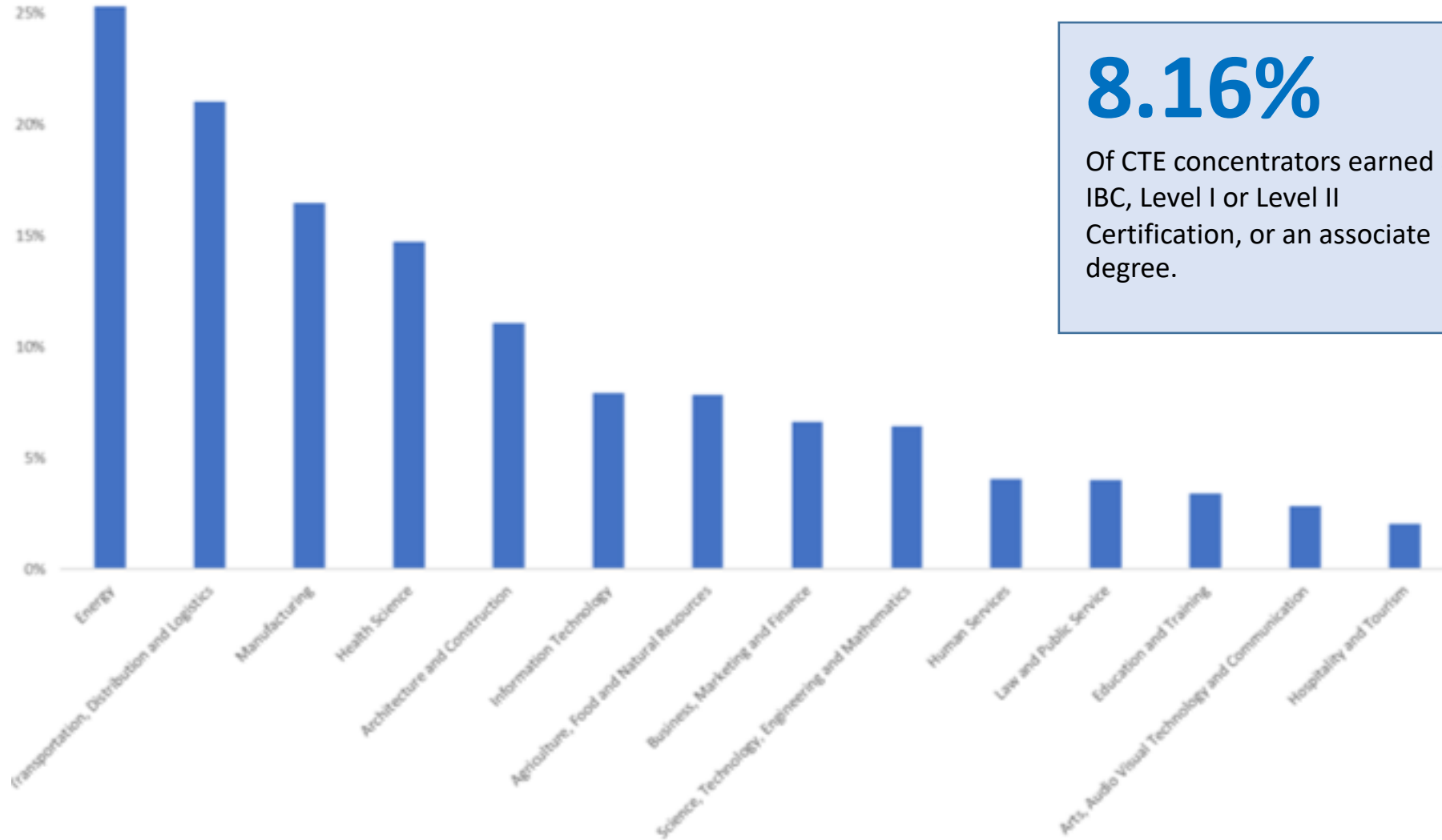
71.21%

Of CTE Learners were employed, enrolled in postsecondary education, or in the military the quarter following graduation.

48.75%

Of Non-CTE Learners were employed, enrolled in postsecondary education, or in the military the quarter following graduation.

Postsecondary Credential Attainment



8.16%

Of CTE concentrators earned an IBC, Level I or Level II Certification, or an associate degree.

3.58%

Of all other students earned an IBC, Level I or Level II Certification, or an associate degree.

Program of Study Resources





POSTSECONDARY OPTIONS

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTERS/DOCTORAL PROFESSIONAL DEGREE
Child Development Associate		Early Childhood Education and Teaching		
Educational Aide I	Texas Educator Certification Program	Multicultural Early Childhood Development		
	County Librarian	Kindergarten/Preschool Education and Training	Early Childhood	Educational, Instructional, and Curriculum Supervision
	Professional Counselor	Psychology/Sociology		Educational Leadership and Administration

Additional industry based certification information is available from the TCACTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Kindergarten Teachers, except Special Education	\$53,310	1,848	17%
Preschool Teachers	\$27,851	4,330	17%
Special Education Teachers, Preschool	\$55,670	148	27%
Elementary School Teachers	\$54,140	13,121	16%
Education Administrators, Elementary and Secondary School	\$79,830	2,407	16%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Texas Association of Future Educators; Family, Career, & Community Leaders of America

Work Based Learning Activities:
Teach a community education class; volunteer as a teaching assistant.

Programs of Study Framework Document

- For use by school administrators and counselors
- Each program of study has a framework document

The Early Learning program of study focuses on early childhood education, which consists of instructing and supporting preschool and early elementary school students in activities that promote social, physical and intellectual growth as well as in basic elements of science, art, music, and literature. This program of study introduces CTE concentrators to tasks necessary for planning, directing, and coordinating activities for young children.



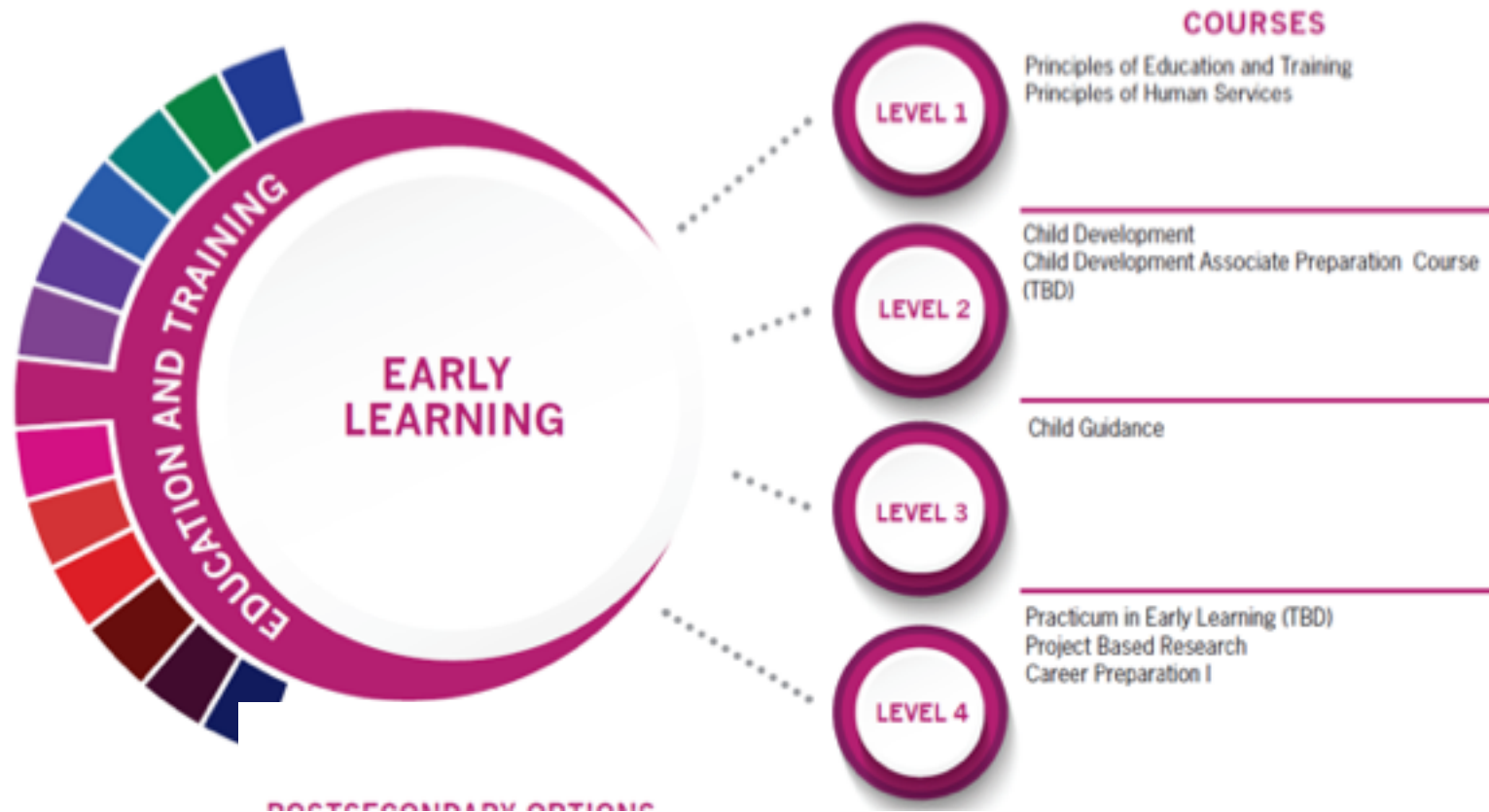
The Education and Training Career Cluster® focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.

Successful completion of the Early Learning program of study will satisfy the requirements for the Public Service Endorsement.
Approved Statewide Program of Study - September 2019



Program of Study Framework Document

- **Career Cluster**
- **Program of Study Name**
- **Course Sequences by Level**
 - Flexibility of courses by level
 - Completer definition: three or more courses for four or more credits with one advanced course



Program of Study Framework Document

- Postsecondary Options
- Labor Market Data
- Work-based Learning Opportunities

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Child Development Associate		Early Childhood Education and Teaching		
Educational Aide I	Texas Educator Certification Program	Multicultural Early Childhood Development		
	County Librarian	Kindergarten/ Preschool Education and Training	Early Childhood	Educational, Instructional, and Curriculum Supervision
	Professional Counselor	Psychology/Sociology		Educational Leadership and Administration
Additional industry based certification information is available from the TEA CTE website.				
For more information on postsecondary options for this program of study, visit TXCTE.org				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Kindergarten Teachers, except Special Education	\$53,310	1,848	17%
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Program of Study Framework Document

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Approved Statewide Program of Study - September 2019

Accessing the POS Resources

Popular ApplicationsAskTEDECOS for EducatorsGrant OpportunitiesSecure ApplicationsTEAL LoginTSDS

TEATexas Education Agency

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A - Z IndexContactEmploymentSign Up for UpdatesTEA Correspondence

About TEAAcademicsFinance & GrantsReports & DataStudent Testing & AccountabilityTexas EducatorsTexas Schools

House Bill 3 (HB 3)
Learn more about HB 3 and what it means for you.
LEARN MORE

House Bill 3 (HB 3)


A-F Accountability

Grad Toolkit


The Latest TEA News

The latest news from the Texas Education Agency is available through [news releases](#), [online correspondence](#), [mailing lists](#), and other posted information.


Student Testing & Accountability



About



Texas Schools



Accessing the POS Resources

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College, Career, & Military Prep

- Advanced Academics
- Armed Services Vocational Aptitude Battery (ASVAB)
- Career and Technical Education Pathways Initiatives
- Texas College and Career Readiness School Models

Curriculum Standards

- TEKS Texas Essential Knowledge and Skills
- TEKS in Spanish
- Texas Essential Knowledge and Skills - Review and Revision

Early Childhood Education

- Early Childhood Grants
- Educator Resources
- Family Resources
- High-Quality Prekindergarten
- Webinars

Graduation Information

- Automatic College Admissions
- Foundation High School Program
- Graduation Reports - PEIMS Standard Reports
- State Graduation Requirements

Instructional Materials

- Accessible Instructional Materials
- Ordering Instructional Materials
- Publisher Portal
- The Review and Adoption Process

Learning Support and Programs

- Credit by Examination
- Mathematics and Reading Academies
- School Guidance and Counseling
- Technology Planning
- Texas Gateway
- Texas Virtual School Network

Special Student Populations

- Bilingual - ESL Education
- Dyslexia
- Gifted and Talented Education
- Review and Support
- Special Education

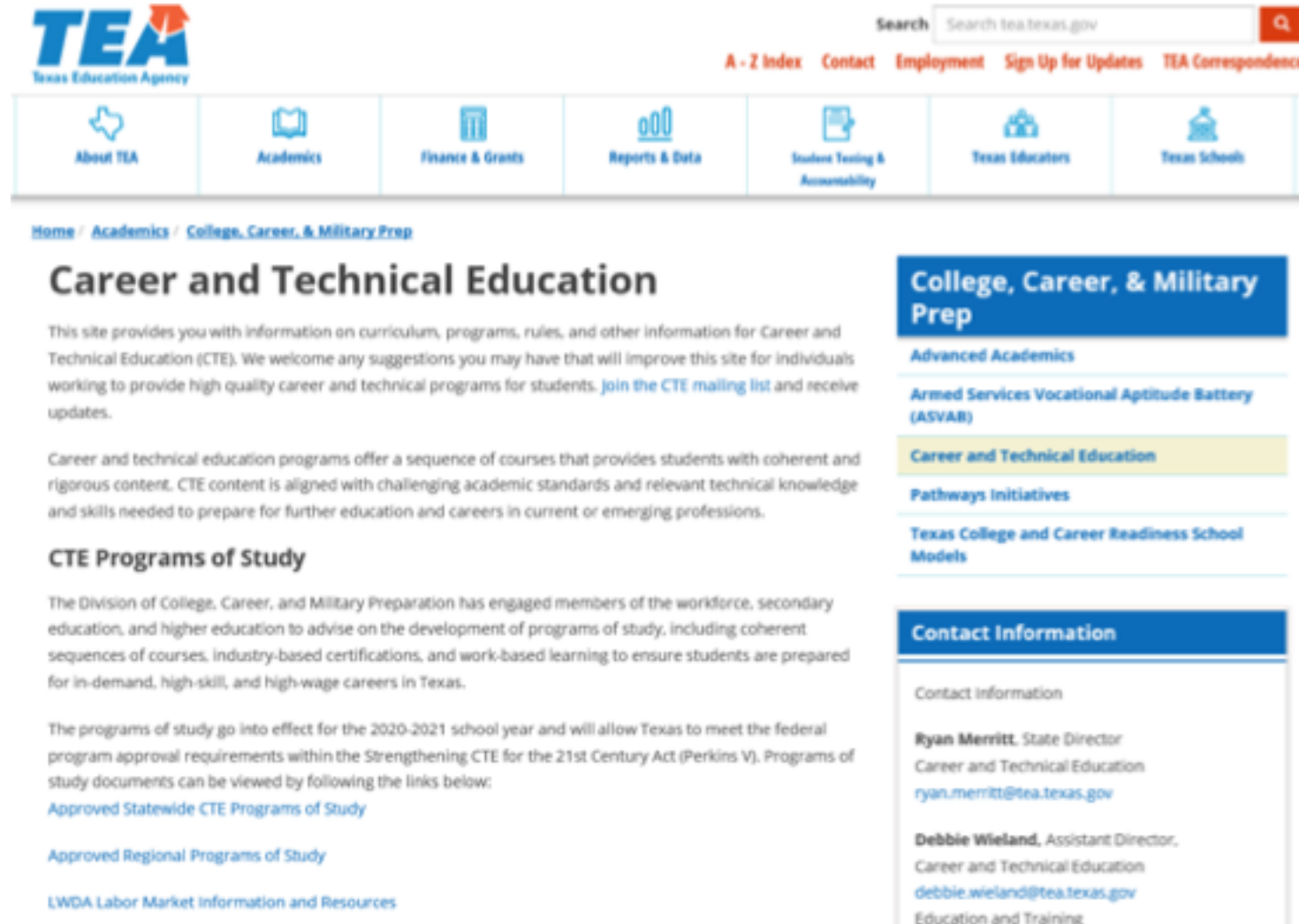
Subject Areas

- Career & Technical Education
- English Language Arts and Reading
- Fine Arts
- Health Education
- Innovative Courses
- Languages Other Than English
- Mathematics
- Physical Education
- Science
- Social Studies

<http://tea.texas.gov/Academics>

Accessing the POS Resources

Scroll
down the
page to
access the
POS
resources



The screenshot shows the TEA website's navigation bar with the TEA logo, a search bar, and links for A-Z Index, Contact, Employment, Sign Up for Updates, and TEA Correspondence. Below the navigation bar is a row of icons for About TEA, Academics, Finance & Grants, Reports & Data, Student Testing & Accountability, Texas Educators, and Texas Schools. The main content area is titled "Career and Technical Education" and includes a paragraph about the site's purpose, a paragraph about CTE programs, and a section for "CTE Programs of Study" with links for Approved Statewide CTE Programs of Study, Approved Regional Programs of Study, and LWDA Labor Market Information and Resources. A sidebar on the right contains a "College, Career, & Military Prep" section with links for Advanced Academics, Armed Services Vocational Aptitude Battery (ASVAB), Career and Technical Education, Pathways Initiatives, and Texas College and Career Readiness School Models, and a "Contact Information" section with contact details for Ryan Merritt and Debbie Wieland.

TEA
Texas Education Agency

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[About TEA](#) [Academics](#) [Finance & Grants](#) [Reports & Data](#) [Student Testing & Accountability](#) [Texas Educators](#) [Texas Schools](#)

[Home](#) / [Academics](#) / [College, Career, & Military Prep](#)

Career and Technical Education

This site provides you with information on curriculum, programs, rules, and other information for Career and Technical Education (CTE). We welcome any suggestions you may have that will improve this site for individuals working to provide high quality career and technical programs for students. [Join the CTE mailing list](#) and receive updates.

Career and technical education programs offer a sequence of courses that provides students with coherent and rigorous content. CTE content is aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions.

CTE Programs of Study

The Division of College, Career, and Military Preparation has engaged members of the workforce, secondary education, and higher education to advise on the development of programs of study, including coherent sequences of courses, industry-based certifications, and work-based learning to ensure students are prepared for in-demand, high-skill, and high-wage careers in Texas.

The programs of study go into effect for the 2020-2021 school year and will allow Texas to meet the federal program approval requirements within the Strengthening CTE for the 21st Century Act (Perkins V). Programs of study documents can be viewed by following the links below:

[Approved Statewide CTE Programs of Study](#)

[Approved Regional Programs of Study](#)

[LWDA Labor Market Information and Resources](#)

College, Career, & Military Prep

[Advanced Academics](#)

[Armed Services Vocational Aptitude Battery \(ASVAB\)](#)

[Career and Technical Education](#)

[Pathways Initiatives](#)

[Texas College and Career Readiness School Models](#)

Contact Information

Contact Information

Ryan Merritt, State Director
Career and Technical Education
ryan.merritt@tea.texas.gov

Debbie Wieland, Assistant Director,
Career and Technical Education
debbie.wieland@tea.texas.gov
Education and Training

Accessing the POS Resources

The
Programs
of Study
Accessible
Versions
are
editable.



Agriculture, Food, and Natural Resources



Architecture and Construction



Arts, Audio Visual Technology, and Communi-
cations



Business, Marketing, and Finance



Education and Training



Energy



Health Science



Hospitality and Tourism



Human Services



Information Technology



Law and Public Service



Manufacturing

Approved Regional Programs of Study

Regional Programs of Study	Approved ESC Regions
Cosmetology	ESC 1, ESC 2, ESC 3, ESC 4, ESC 5, ESC 6, ESC 7, ESC 8, ESC 10, ESC 11, ESC 12, ESC 13, ESC 17, ESC 18, ESC 19 & ESC 20
Maritime	ESC 4 & ESC 5
Aviation	ESC 4, ESC 10 & ESC 20
Drone (Unmanned Flight)	ESC 11 & ESC 19
Printing & Imaging	ESC 7 & ESC 13
Industrial Maintenance	ESC 7
Geospatial Engineering & Land Surveying	ESC 4
Retail Management	ESC 4 & ESC 20

Planning Your Program of Study

Compare the Planned Course Sequence to the Statewide Program of Study Course Sequence



Compare the planned course sequence to the Statewide Program of Study course sequence supported by your local workforce development area Labor Market Information (LMI).

Directions:

- Label each Program of Study in the circle center.
- List the CTE course and corresponding credit award that you plan to offer in blanks next to each level.
- Highlight any course that is not currently offered.
- Circle any Level 3 or Level 4 course.

Make plans for any course that is highlighted. Consider staffing, equipment, and curriculum needs that may be necessary.

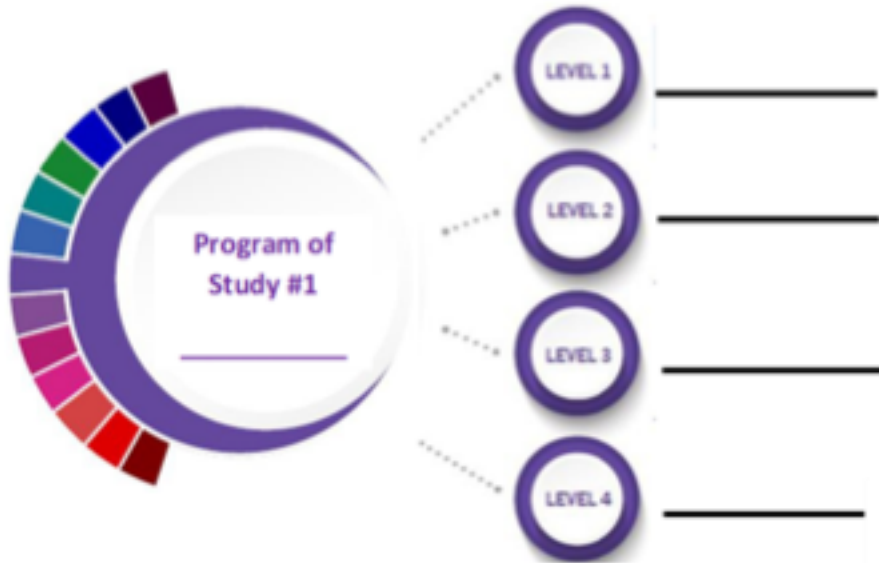
Ensure the you have included a level 3 or 4 course to enable your student to meet the CTE completer definition (course sequence must total 4 or more credits).

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Questions?

Jarrad Toussant

Director

College Career and Military
Preparation

Jarrad.Toussant@tea.Texas.gov



District Practices

Christi Barrera

Texas OnCourse Fellow Alumni Chair

CTE Coordinator

San Felipe-Del Rio CISD

Preparing Students for High School

Using Texas OnCourse

- Texas OnCourse resources through the College and Career Readiness course in eighth grade
 - Middle School Curriculum
 - MiddleGalaxy
 - MapMyGrad

Preparing Students for High School

Connecting to CTE

CTE training for all secondary counselors

- CTE presentations for all eighth graders prior to the annual CTE fair
- Presentations and CTE fairs are repeated in ninth grade

Programs of Study Templates



POSTSECONDARY OPTIONS				
WIDE AREA/ REGIONAL CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Aerospace Manufacturing Certification	Avionics Electronics Technician	Avionics Maintenance Technology/ Technician	Aircraft Mechanics and Aircraft Maintenance Technology/ Technician	
OSHA	Aircraft Electronics Technician	Aircraft Powerplant Technology/ Technician		
	Aerospace/ Aircraft Assembly Maintenance Certification	Aircraft Maintenance and Aircraft Maintenance Technology/ Technician		
*Includes Level I and II Certificates				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

The Aviation Maintenance program of study introduces students to the occupations and education opportunities related to inspecting aircraft, maintenance procedures, air navigational aids, air traffic controls, and communications equipment to ensure conformance with federal safety regulations.

The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Successful completion of the Aviation program of study will fulfill requirements of the Business and Industry Endorsement. Students will be eligible to earn a one-year certificate in Aviation Technology from SWTJC.

COURSES

LEVEL 1	Introduction to Aircraft Technology
LEVEL 2	
LEVEL 3	Aircraft Airframe Technology Dual Credit
LEVEL 4	Practicum in Transportation Systems Dual Credit

COURSE INFORMATION

COURSE NAME	COURSE NUMBER AND CREDITS	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Introduction to Aircraft Technology	8727 (1 credit)	admission criteria in the student handbook	10
Aircraft Airframe Technology Dual Credit	8724-6 (2 credits)	Intro to Aircraft & SWTJC requirements	11
Practicum in Transportation Systems Dual Credit	8729-6 (3 credits)	Aircraft Airframe Technology Dual Credit	12

COURSE DESCRIPTIONS

Introduction to Aircraft Technology:

This course is designed to teach the theory of operation of aircraft airframes, power plants, and avionics systems and associated maintenance and repair practices. Aircraft services include knowledge of the function, diagnosis, and service of the electrical, electronic, hydraulic, pneumatic, airframe, mechanical, and power plant components of aircraft. Safety regulations will be explored through OSHA.

Aircraft Airframe Technology Dual Credit:

College Credits: AERM 1203, 1210, & 1315

This course is designed to teach basic theory of operation of aircraft, its power plants (engines), airframe (structure), and avionics system (instrumentation) along with associated maintenance and repair practices to keep these systems working. Student will understand the theory of how they all work to keep aircraft flying.

Practicum in Transportation Systems Dual Credit:

College Credits: AERM 1314, 1350, & 2231

Laughlin Air Force Base becomes the classroom for this course, providing hands-on training on T-1, T-6, and T-38 aircraft. Students learn about removing, replacing, and installing components of different systems that make an aircraft fly. They are trained on servicing fuel and oil in the engines and hydraulic systems of the aircraft and learn the proper use of manuals and publications to maintain aircraft.

Programs of Study At-A-Glance

Career and Technical (CTE)

Programs of Study At-A-Glance

2021-2022

Business & Industry

Carpentry		
Course #	Courses Title	Grade(s)
8410CC	Principles of Construction	9-10
8409	Architectural Design	10
8412-6	Construction I	11
8413-6	Construction II	12

Welding		
Course #	Courses Title	Grade(s)
8710	Intro to Welding	10
8711-6	Welding I	11
8712-6	Welding II	12

Design & Multimedia Arts		
Course #	Courses Title	Grade(s)
8710	Principles of Audio/Video	9-10
8714	Graphic Design & Illustration	10-11
8641	Digital Media	11-12
8643	Digital Art & Animation	12
8642	Web Design	12
806	Career Prep	12

Accounting & Financial Services		
Course #	Courses Title	Grade(s)
8608	BM I	9-12
8601 or 8601-6	Principles of B&M	10-12
8647 or 8647-6	Money Matters	11-12
8647 or 8645-6	Accounting I	11-12
8648	Accounting II	12
8627 or 8625-6	Ext. Prac BM	12
8606	Career Prep	12

Electrical		
Course #	Courses Title	Grade(s)
8410CC	Principles of Construction	9-10
8416	Electrical Technology I	10-11
8417	Electrical Technology II	11-12
8408	Career Prep	12

Automotive		
Course #	Courses Title	Grade(s)
8720	Automotive Basics	10
8721-6	Automotive Technology I	11
8722-6	Automotive Technology II	12

Digital Communications		
Course #	Courses Title	Grade(s)
8710	Principles of Audio/Video	9-10
8713	Audio/Video Production I	10-11
8630 or 8635-6	Professional Communications	11-12
8717	Audio/Video Production II	11-12
8719	Practicum in Audio/Video	12

Business Management		
Course #	Courses Title	Grade(s)
8608	BM I	9-12
8601 or 8601-6	Principles of B&M	10-12
8609	BM II	10-12
8614	Virtual Business	11-12
8613	Global Business	11-12
8622 or 8622-6	Business Mgmt	11-12
8604-6	HR Mgmt	11-12
8627 or 8625-6	Ext. Practicum in Business Mgmt	12
8606	Career Prep	12

HVAC		
Course #	Courses Title	Grade(s)
8410CC	Principles of Construction	9-10
8426-6	HVAC I	10-11
8427-6	HVAC II	11-12
8428-6	HVAC III	12

Aviation Maintenance		
Course #	Courses Title	Grade(s)
8727	Intro to Aircraft	10
8726-6	Aircraft Technology	11
8729-6	Ext. Prac in Transportation	12

Culinary Arts		
Course #	Courses Title	Grade(s)
8624	Principles of Hospitality	9-10
8603	Intro to Culinary Arts	10-11
8626	Culinary Arts	11-12
8628	Advanced Culinary Arts	12
8606	Career Prep	12

Marketing & Sales		
Course #	Courses Title	Grade(s)
8601 or 8601-6	Principles of B&M	10-12
8616	Sports & Entertainment Marketing	11-12
8617	Advertising	11-12
8614	Virtual Business	11-12
8618	Advanced Marketing	12
8606	Career Prep	12

Public Services

Early Learning		
Course #	Courses Title	Grade(s)
8630	Principles of Human Services	9-10
8631	Child Development	10-11
8661	Child Guidance	11-12
8637	Practicum in Human Services	12
8606	Career Prep	12

Healthcare Therapeutic		
Course #	Courses Title	Grade(s)
8650	Principles of Health Science	9-10
8651	Medical Terminology	10
8652	Health Science	11
8657	Anatomy & Physiology	11

STEM

Cybersecurity		
Course #	Courses Title	Grade(s)
8801	Fundamentals of Computer Science	9-10
8803	AP Computer Science Principles	10-11
8805	AP Computer Science A	11-12
8807	Project-Based Research	12

course is in sequence but not part of
POS for accountability

Teaching & Training		
Course #	Courses Title	Grade(s)
8620	Principles of Education	9-10
8621	Human Growth & Development	10-11
8622	Instructional Practices	11-12
8623	Practicum in Education	12

Healthcare Therapeutic		
Course #	Courses Title	Grade(s)
8634-6	Practicum in Health Science: C.N.A.	12
8635-6	Practicum in Health Science: C.M.A.	12
8636-6 or 8639-6	Practicum in Health Science: Phlebotomy/TEKG	12
8640-6	Practicum in Health Science: E.M.T.	12

Engineering		
Course #	Courses Title	Grade(s)
8716	Introduction to Engineering Design	9-10
8715	Engineering Science	10
8717	Digital Electronics	11
8718	Computer Integrated Manufacturing	11
8719	Engineering Design & Development	12

Law Enforcement		
Course #	Courses Title	Grade(s)
8730	Principles of Law	9-10
8735	Federal Law	10
8736	Law I	10
8731-6	Law I DC	11-12
8736	Law II	11-12
8736-6	Law II DC	12
8732-6	Correctional Services	12
8737	Forensic Science	11-12

course is in sequence but not part of POS for accountability



COURSE

Using Programs of Study to Improve CCMR

- Increase chances of students earning an IBC
 - All of our Health Science certifications have a 100% passing rate
 - <https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/industry-based-certification-resources>
- Partner with an IHE to align the Programs of Study with a Level I certificate

Certified Nurse Aide/Assistant

INDUSTRY-BASED CERTIFICATION DESCRIPTION

The National Nurse Aide Assessment Program examination is an evaluation of nurse aide-related knowledge, skills, and abilities.

The purpose of the NNAAP examination is to test that a candidate understands and can safely perform the job of an entry-level nurse aide. The exam is comprised of the following competencies: physical care skills to include nutrition, hydration, elimination, infection control, and data collection; psychological care skills; and the role of a nurse aide which entails client rights, legal and ethical behavior, and communications.

If a school district is interested in offering a Certified Nursing Aide/Assistant program, the first step would be to reach out to Texas Health and Human Services to find out the specific requirements needed to offer the nurse aide program.

For additional information, please visit the following link:
<https://this.texas.gov/doing-business/this/learning-credentialing-regulation/career-technical-education/industry-based-certification-resources>



CERTIFYING ENTITY	ADDITIONAL INFORMATION
<p style="text-align: center;">Texas Health and Human Services</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <p>512-438-2517</p> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <p>https://this.texas.gov/</p> </div>	<p>Exam Information: National Nurse Aide Assessment Program/Texas Nurse Aide</p> <p>Exam Website: https://this.texas.gov/doing-business/this/learning-credentialing-regulation/career-technical-education/industry-based-certification-resources</p> <p>Number of Questions: Hands-on skill competency for 1 skills, 30 exam questions (English or Spanish) (Oral exam may be given in place of the written exam)</p> <p>Question Type: Multiple Choice and Skills (or Oral exam)</p> <p>Exam Time: 2 hours Written Exam Skills Exam (Plan to spend the day testing)</p> <p>Exam Site: Pearson Professional Center or PearsonVUE authorized testing center</p> <p>Exam Price: \$104.50 Written and Skills: \$27.50 Written Only or \$77.00 Skills Only</p> <p>Candidate Requirements: Must successfully complete a state-approved nurse aide training program within the past twenty-four (24) months.</p> <p>Study Materials & Resources: https://this.texas.gov/doing-business/this/learning-credentialing-regulation/career-technical-education/industry-based-certification-resources</p>

Texas Education Agency | Division of College, Career and Military Preparation | July 2019

Additional Questions

Feel free to type your questions in the chat box.

TEXAS ONCOURSE



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on YouTube!**



Texas OnCourse
182 subscribers

youtube.com/c/TexasOnCourse



An aerial photograph of a dense green forest. A paved road with a yellow center line and white edge lines curves through the lower right portion of the image. The text is overlaid on the forest background.

Thank You

Stay tuned for our email follow-up with all of this information.

Take care and stay healthy and safe!