



CTE Student Codes



Not CTE



CTE Participants



CTE Explorers



CTE Concentrators



CTE Completers

Code 4

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

Code 5

A student completing one or more courses for less than two credits*

Code E

A student completing two or more high school CTE courses for a total of two or more credits defined by 19 TAC Chapter 126 (C), 127(B) or 130 and not a participant, concentrator or completer (the student does not have to pass or receive credit).*

Code 6

A student completing and passing at least two or more 19 TAC Chapter 126 (C), 127 (B) or 130 CTE courses for a total of at least two credits within the same program of study and not a completer.

Code 7

A student completing and passing three or more 19 TAC Chapter 126 (C), 127 (B) or 130 CTE courses for a total of four or more credits within a program of study, including one level three or level four course from within the same program of study.

Our Programs of Study



Animal Science

- Level 1: Principles of Ag, Food, & Natural Resources
- Level 2: Small Animal Management / Equine Science
- Level 2: Entrepreneurship I
- Level 3: Livestock & Poultry Production
- Level 4: Advanced Animal Science
- Level 4: Practicum in Ag, Food, & Natural Resources



Agricultural Technology and Mechanical Systems

- Level 1: Principles of Ag, Food, & Natural Resources
- Level 2: Agricultural Mechanics & Metal Technologies
- Level 3: Agricultural Structures & Fabrication
- Level 4: Agricultural Equipment Design & Fabrication
- Level 4: Practicum in Ag, Food, & Natural Resources



Robotics and Automation Technology

- Level 1: Principles of Applied Engineering
- Level 2: Robotics I
- Level 3: Robotics II
- Level 3: Engineering Design & Presentation



Accounting and Financial Services

- Level 1: Principles of Business, Marketing & Finance
- Level 1: Money Matters
- Level 2: Accounting I
- Level 2: Entrepreneurship I
- Level 3: Accounting II
- Level 4: Practicum in Entrepreneurship



Graphic Design and Interactive Media

- Level 1: Principles of Arts, A/V Technology & Comms
- Level 2: Graphic Design I
- Level 2: Animation I
- Level 3: Graphic Design II
- Level 3: Animation II
- Level 4: Practicum in Graphic Design & Illustration
- Level 4: Practicum in Animation



Hospitality and Tourism

- Level 1: Principles of Hospitality & Tourism
- Level 1: Introduction to Culinary Arts
- Level 2: Entrepreneurship I
- Level 2: Culinary Arts
- Level 3: Event & Meeting Planning
- Level 3: Advanced Culinary Arts
- Level 4: Practicum in Event & Meeting planning



Nursing Science

- Level 1: Principles of Health Science
- Level 2: Medical Terminology
- Level 3: Anatomy and Physiology
- Level 3: Health Science Theory
- Level 4: Practicum in Health Science



Teaching and Training

- Level I: Principles of Education and Training
- Level 2: Communication & Technology in Education
- Level 3: Instructional Practices
- Level 4: Practicum in Education & Training

CTE Weighted Funding Structure

- Tier 1 (1.10 weight)
For CTE courses not in an approved program of study.
- Tier 2 (1.28 weight)
For levels 1 and 2 CTE courses in an approved program of study.
- Tier 3 (1.47 weight)
For levels 3 and 4 CTE courses in an approved program of study.



Health Science Career Cluster

The Health Science career cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. This career cluster includes occupations ranging from medical assistant, registered nurse, and physical therapist to forensic science technician and athletic trainer.

Statewide Program of Study: *Nursing Science*

The Nursing Science program of study focuses on occupational and educational opportunities associated with patient care. This program of study includes the practice of caring for patients, performing routine procedures such as monitoring vital signs, developing, and implementing care plans, maintaining medical records, and managing disease or pain.



Secondary Courses for High School Credit

Level 1 • Principles of Health Science

Level 2 • Medical Terminology

Level 3 • Health Science Theory
• Anatomy and Physiology

Level 4 • Practicum in Health Science

Example Postsecondary Opportunities

Apprenticeships

- Registered Nurse Resident

Associate Degrees

- Medical Assisting
- Vocational Nursing

Bachelor's Degrees

- Registered Nursing
- Nursing Administration

Master's, Doctoral, and Professional Degrees

- Nursing Administration
- Nursing Science

Additional Stackable IBCs/License

- Certified Emergency Nurse



Example Aligned Occupations

Nursing Assistants

Median Wage: \$35,110
Annual Openings: 13,501
10-Year Growth: 15%

Licensed Practical and Licensed Vocational Nurses

Median Wage: \$57,007
Annual Openings: 5,831
10-Year Growth: 17%

Registered Nurses

Median Wage: \$85,108
Annual Openings: 16,904
10-Year Growth: 17%



Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) career cluster focuses on the essential elements of life, food, water, land, and air. This career cluster includes occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Statewide Program of Study: *Animal Science*

The Animal Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of animals and other living organisms. This program of study includes applying biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students will research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.



Secondary Courses for High School Credit

- | | |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Level 1 | <ul style="list-style-type: none"> Principles of Agriculture, Food, and Natural Resources |
| Level 2 | <ul style="list-style-type: none"> Small Animal Management Equine Science Entrepreneurship I |
| Level 3 | <ul style="list-style-type: none"> Livestock and Poultry Production |
| Level 4 | <ul style="list-style-type: none"> Advanced Animal Science Practicum in Agriculture, Food, and Natural Resources |

Example Postsecondary Opportunities

Apprenticeships

- Reproduction Technician

Associate Degrees

- Biological and Physical Sciences
- Entomology

Bachelor's Degrees

- Animal Science
- Zoology/Animal Biology

Master's, Doctoral, and Professional Degrees

- Marine Sciences
- Biotechnology

Additional Stackable IBCs/License

- Veterinarian
- Certified Veterinary Technician



Example Aligned Occupations

Veterinary Assistants and Laboratory Animal Caretakers

Median Wage: \$33,581
Annual Openings: 1,953
10-Year Growth: 24%

Veterinary Technologists and Technicians

Median Wage: \$35,698
Annual Openings: 1,820
10-Year Growth: 24%

Veterinarians

Median Wage: \$125,030
Annual Openings: 435
10-Year Growth: 26%



Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) career cluster focuses on the essential elements of life, food, water, land, and air. This career cluster includes occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Statewide Program of Study: *Agricultural Technology and Mechanical Systems*

The Agricultural Technology and Mechanical Systems program of study focuses on occupational and educational opportunities associated with applying engineering technology and biological science to agricultural problems related to power and machinery, electrification, structures, soil and water use, and processing agricultural products. This program of study includes diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.



Secondary Courses for High School Credit

- | | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Level 1 | <ul style="list-style-type: none"> Principles of Agriculture, Food, and Natural Resources |
| Level 2 | <ul style="list-style-type: none"> Agricultural Mechanics and Metal Technologies |
| Level 3 | <ul style="list-style-type: none"> Agricultural Structures Design and Fabrication |
| Level 4 | <ul style="list-style-type: none"> Agricultural Equipment Design and Fabrication Practicum in Agriculture, Food, and Natural Resources |

Example Postsecondary Opportunities

Apprenticeships

- Farm Equipment Mechanic I

Associate Degrees

- Diesel Mechanics Technology
- Industrial Mechanics and Maintenance Technology

Bachelor's Degrees

- Agricultural Engineering
- Agricultural Systems Management

Master's, Doctoral, and Professional Degrees

- Agricultural Engineering
- Industrial Technology

Additional Stackable IBCs/License

- Diesel Equipment Technology-Off Highway Specialization CER1
- Accredited Farm Manager



Example Aligned Occupations

Farm Equipment Mechanics and Service Technicians

Median Wage: \$41,258
Annual Openings: 315
10-Year Growth: 23%

Mobile Heavy Equipment Mechanics

Median Wage: \$60,005
Annual Openings: 2,315
10-Year Growth: 31%

Farmers, Ranchers, and Other Agricultural Managers

Median Wage: \$79,064
Annual Openings: 30,363
10-Year Growth: 4%

Arts, Audio Visual Technology, and Communications Career Cluster

The Arts, Audio Visual Technology, and Communication (AAVTC) career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content requiring creative aptitude, fluency in computer and technology applications, and proficiency in oral and written communication. This career cluster includes occupations ranging from camera operator, audio and video technician, director, and producer to graphic designer and web and digital interface designer.

Statewide Program of Study: *Graphic Design and Interactive Media*

The Graphic Design and Interactive Media program of study focuses on occupational and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. The program of study includes designing clothing and accessories and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in computer games, movies, music videos, and commercials.



Secondary Courses for High School Credit

Level 1	<ul style="list-style-type: none"> Principles of Arts, Audio/Video Technology, and Communications Digital Media
Level 2	<ul style="list-style-type: none"> Graphic Design and Illustration I Animation I
Level 3	<ul style="list-style-type: none"> Graphic Design and Illustration II Animation II
Level 4	<ul style="list-style-type: none"> Practicum in Graphic Design and Illustration Practicum in Animation

Example Postsecondary Opportunities

Associate Degrees

- Graphic Design
- Digital Arts



Bachelor's Degrees

- Web Page, Digital/Multimedia and Information Resources Design
- Design and Visual Communications

Master's, Doctoral, and Professional Degrees

- Game and Interactive Media Design
- Animation, Interactive Technology, Video Graphics, and Special Effects

Additional Stackable IBCs/License

- Certified Textile Designer (CTD)



Example Aligned Occupations

Software Developers

Median Wage: \$127,000
Annual Openings: 12,350
10-Year Growth: 36%

Graphic Designers

Median Wage: \$53,100
Annual Openings: 1,758
10-Year Growth: 10%

Art Directors

Median Wage: \$80,944
Annual Openings: 1,025
10-Year Growth: 18%

Business, Marketing, and Finance Career Cluster

The Business, Marketing, and Finance career cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. This career cluster includes occupations ranging from business owner and entrepreneur to accountant, retail manager, and market analyst.

Statewide Program of Study: *Accounting and Financial Services*

The Accounting and Financial Services program of study focuses on occupational and educational opportunities associated with examining, analyzing, and interpreting financial records. It includes exploration of financial services, preparing financial statements, auditing financial statements prepared by others, and interpreting accounting records. This program of study also introduces students to mathematical modeling tools.



Secondary Courses for High School Credit

Level 1	<ul style="list-style-type: none"> Principles of Business, Marketing, and Finance Money Matters
Level 2	<ul style="list-style-type: none"> Accounting I Entrepreneurship I
Level 3	<ul style="list-style-type: none"> Accounting II
Level 4	<ul style="list-style-type: none"> Practicum in Entrepreneurship

Example Postsecondary Opportunities

Associate Degrees

- Accounting
- Bookkeeping

Bachelor's Degrees

- Accounting
- Banking and Financial Support Services

Master's, Doctoral, and Professional Degrees

- Business Administration and Management
- Finance

Additional Stackable IBCs/License

- Project Management Professional
- Property Tax Consultants Service Contract Providers



Example Aligned Occupations

Tax Preparers

Median Wage: \$47,801
Annual Openings: 1,738
10-Year Growth: 14%

Accountants and Auditors

Median Wage: \$78,899
Annual Openings: 11,834
10-Year Growth: 20%

Personal Financial Advisors

Median Wage: \$81,658
Annual Openings: 2,522
10-Year Growth: 21%



Hospitality and Tourism Career Cluster

The Hospitality and Tourism career cluster focuses on the management, marketing, and operations of restaurants, lodging, attractions, recreation events, and travel-related services. This career cluster includes occupations ranging from reservation and transportation ticket agent to event planner and general manager.

Statewide Program of Study: Culinary Arts

The Culinary Arts program of study focuses on occupational and educational opportunities associated with the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study includes opportunities involved in directing and participating in the preparation of food.



Secondary Courses for High School Credit

- | | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Level 1 | <ul style="list-style-type: none"> Principles of Hospitality and Tourism Introduction to Culinary Arts |
| Level 2 | <ul style="list-style-type: none"> Culinary Arts Entrepreneurship I |
| Level 3 | <ul style="list-style-type: none"> Advanced Culinary Arts Event and Meeting Planning |
| Level 4 | <ul style="list-style-type: none"> Practicum in Event and Meeting Planning |

Example Postsecondary Opportunities

Associate Degrees

- Culinary Arts
- Baking and Pastry Arts

Bachelor's Degrees

- Hotel/Motel Administration/Management
- Culinary Science

Master's, Doctoral, and Professional Degrees

- Organizational Leadership
- Foodservice Systems Administration/Management

Additional Stackable IBCs/License

- Food Manager License



Example Aligned Occupations

Food Service Managers

Median Wage: \$61,748
Annual Openings: 2,941
10-Year Growth: 15%

Chefs and Head Cooks

Median Wage: \$48,557
Annual Openings: 2,699
10-Year Growth: 37%

General and Operations Managers

Median Wage: \$96,046
Annual Openings: 44,419
10-Year Growth: 23%



Education and Training Career Cluster

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. This career cluster includes a diverse spectrum of occupations, ranging from teaching assistant, classroom teacher, to school administrator.

Statewide Program of Study: Teaching and Training

The Teaching and Training program of study focuses on occupational and educational opportunities associated with careers related to teaching, instructing, and creating instructional and enrichment materials. The program of study includes recognizing a variety of student groups and their corresponding needs, identifying processes for developing curriculum and coordinating educational content, and coaching groups and individuals.



Secondary Courses for High School Credit

- | | |
|----------------|---------------------------------------------|
| Level 1 | • Principles of Education and Training |
| Level 2 | • Communication and Technology in Education |
| Level 3 | • Instructional Practices |
| Level 4 | • Practicum in Education and Training |

Example Postsecondary Opportunities

Apprenticeships

- Teacher Apprentice

Associate Degrees

- Adult and Continuing Education and Teaching
- Educational/Instructional Technology

Bachelor's Degrees

- Elementary Education and Teaching
- Secondary Education and Teaching

Master's, Doctoral, and Professional Degrees

- Educational Leadership and Administration, General
- Curriculum and Instruction

Additional Stackable IBCs/License

- Generalist, Grades EC-4



Example Aligned Occupations

Teaching Assistants, Except Postsecondary

Median Wage: \$29,358
Annual Openings: 13,725
10-Year Growth: 15%

Secondary School Teachers, Except Special Education and CTE

Median Wage: \$64,009
Annual Openings: 8,338
10-Year Growth: 14%

Education Administrators, Kindergarten through Secondary

Median Wage: \$86,768
Annual Openings: 2,734
10-Year Growth: 14%

Manufacturing Career Cluster

The Manufacturing career cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and process engineering. This career cluster includes occupations ranging from welder and machinist to industrial engineering technician and semi-conductor processing technician.

Statewide Program of Study: Robotics and Automation Technology

The Robotics and Automation Technology program of study focuses on occupational and educational opportunities associated with the assembly, operation, maintenance, and repair of electromechanical equipment or devices. This program of study includes exploration of a variety of mechanical fields, including robotics, refinery and pipeline systems, deep ocean exploration, and hazardous waste removal.



Secondary Courses for High School Credit

Level 1 • Principles of Applied Engineering

Level 2 • Robotics I

Level 3 • Robotics II

Example Postsecondary Opportunities

Associate Degrees

- Instrumentation Technology
- Industrial Technology
- Robotics Technology
- Automation Engineer Technology



Bachelor's Degrees

- Mechanical Engineering
- Electrical Electronics Engineering
- Electrical, Electronic, and Communications Engineering Technology
- Electromechanical Engineering Technology

Master's, Doctoral, and Professional Degrees

- Mechanical Engineering
- Engineering/Industrial Management
- Industrial Engineering
- Electrical and Electronics Engineering



Example Aligned Occupations

Computer Numerically Controlled Tool Operators

Median Wage: \$62,156
Annual Openings: 220
10-Year Growth: 10%

Semiconductor Processing Technicians

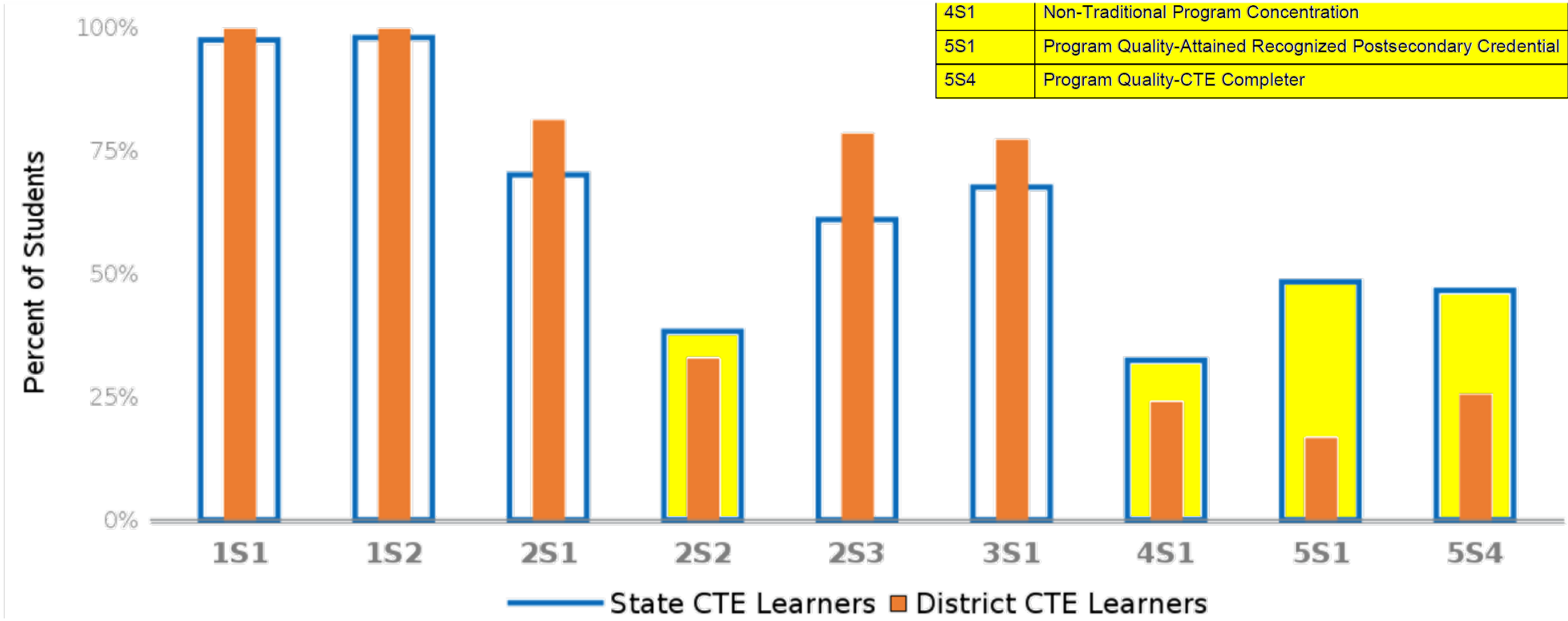
Median Wage: \$35,963
Annual Openings: 592
10-Year Growth: 9%

Industrial Engineers

Median Wage: \$102,022
Annual Openings: 1,996
10-Year Growth: 26%

How do Jim Ned CTE learners stack up against state CTE learners?

Indicator	Name
1S1	Four-Year Graduation Rate
1S2	Extended-Year Graduation Rate
2S1	Academic Proficiency in Reading/Language Arts
2S2	Academic Proficiency in Mathematics
2S3	Academic Proficiency in Science
3S1	Post-Program Placement
4S1	Non-Traditional Program Concentration
5S1	Program Quality-Attained Recognized Postsecondary Credential
5S4	Program Quality-CTE Completer



The district has:

1. made staffing changes to improve quality of instruction in courses in the foundational 9th and 10th grades,
2. onboarded a CTE director that will liaise directly with the campus counselors and special programs counselor,
3. implemented tracking procedures at the student-level to be proactively aware of each student's performance and quickly identify students in need of remediation due to observed underperformance, and
4. begun offering principles courses in the 8th grade with the express intent of facilitating opportunities for CTE learners to achieve completer status at an earlier point within their 9-12th career.

The district's top priorities over the next four years are to:

1. increase the percentage of CTE learners that earn an industry-based certification, achieve a completer CTE status, and a CCMR credit;
2. observe annual fidelity in honoring alignment of courses within each program of study; and
3. facilitate increased communication and collaboration between 7-12th campus principals, 7-12th counselors, the 7-12th special programs coordinator, the district CTE director, and the chief academic officer.