CTE Course Guide

Career Clusters & Programs of Study

2026-2027

TRINITY ISD

CTE

"A COMMUNITY WORKING TOGETHER TO
GRADUATE STUDENTS PREPARED FOR SUCCESS IN A
GLOBAL ECONOMY"

Trinity Independent School District offers career and technical education programs in Animal Science, Plant Science, Agricultural Technology & Mechanical Systems, Carpentry, Business Management, Health Informatics, Diagnostics and Therapeutic Services, Law Enforcement, and Culinary Arts. Admission to these programs is based on admission standards.

It is the policy of Trinity 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.

Trinity 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 Dr. Ben Petty at bpetty@trinityisd.net, or 936-594-3569, and/or the Section 504 Coordinator Jodi Card at jcard@trinityisd.net or 936-594-3569 x 1053.

Table of Contents

CTE Staff Contact Information ..... pg 2
Required Credits for Graduation per TISD Handbook ..... pg 3
Business Management ..... pg 4
Animal Science ..... pg 5
Plant Science ..... pg 6
Agriculture Technology & Mechanical Systems ..... pg 7
Health Informatics ..... pg 8
SHSU Polytechnical College Dual Credit for Health Informatics ..... pg 9-10
Diagnostic & Therapeutic Services..... pg 11
Culinary ..... pg 12
Carpentry ..... pg 13
Law Enforcement ..... pg 14

TRINITY ISD CTE

"A COMMUNITY WORKING TOGETHER TO GRADUATE STUDENTS PREPARED FOR SUCCESS IN A GLOBAL ECONOMY"

THS CTE Department Contact Information:

CTE Director: Misty Coleman-mcoleman@trinityisd.net
Counselor: Anna DeBorde-adeborde@trinityisd.net

Health Science- Misty Coleman- mcoleman@trinityisd.net

Anatomy & Physiology, Plant & Soil Science & Law Enforcement - Colton Campbell- cccampbell@trinityisd.net

Carpentry- Kevin Ward- kward@trinityisd.net

Agricultural Technology & Mechanical Systems- Steve Cronin- scronin@trinityisd.net

Animal Science & Floral Design- Kara Gobert – kgobert@trinityisd.net

Culinary Arts- Kaitlyn Allen- kallen@trinityisd.net

Business Management- Reece Robinette – rrobinette@trinityisd.net

CTE- Student Organizations

The State of Texas and the Texas Education Code also recognizes the value of career and technical student organizations by emphasizing the importance of "participation by students and teachers in activities of career and technical student organizations supported by the agency and the State Board of Education (Sec. 29.182)."

Texas FBLA
Future Business Leaders of America- Business Management

Family, Career and Community Leaders of America FCCLA®
Culinary Arts

FFA
Animal Science, Plant Science, & Agricultural Technology & Mechanical Systems

hosa future health professionals TEXAS
Health Occupations Students of America- Health Science

Credits Required

The foundation graduation program requires completion of the following credits:

Course Area	Number of Credits: Foundation Graduation Program	Number of Credits: Foundation Graduation Program with an Endorsement
English/Language	4	4
Arts	3	3
Mathematics	3	4
Science	3	4
Social Studies	3	3
Physical Education	1	1
Languages other than English	2	2
Fine Arts	1	1
Health	0.5	0.5
Leadership	0.5	0.5
Electives	5	7
Total	22 Credits	26 Credits

Additional considerations apply in some course areas, including:

- **Mathematics**: To obtain the distinguished level of achievement under the foundation graduation program, a student must complete an endorsement and take Algebra II as one of the 4 mathematics credits. A student's completion of the distinguished level of achievement is a requirement to be considered for automatic admission to a Texas four-year college or university and will be included on a student's transcript.
- **Physical education:** A student who is unable to participate in physical activity due to a disability or illness may be able to substitute a course in English language arts, mathematics, science, social studies, or another locally determined credit-bearing course for the required credit of physical education. This determination will be made by the student's ARD committee, Section 504 committee, or other campus committee, as applicable.
- **Languages other than English:** Students are required to earn 2 credits in the same language other than English to graduate.
    - o A student may substitute computer programming languages for these credits.
    - o A student may satisfy one of the 2 required credits by successfully completing in elementary school a dual language immersion program or a course in American Sign Language.
    - o In limited circumstances, a student may be able to substitute this requirement with other courses, as determined by a district committee authorized by law to make these decisions for the student.

Available Endorsements

A student must specify which endorsement to pursue upon entering grade 9.

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: Business Management

The Business Management program of study focuses on occupational and educational opportunities associated with planning, directing, and coordinating the administrative services and operations of an organization. It includes formulating policies, managing daily operations, and allocating the use of materials and human resources. This program of study also introduces students to mathematical modeling tools and organizational evaluation methods.

Secondary Courses for High School Credit

Level 1	• Business Information Management I
Level 2	• Entrepreneurship I
Level 3	• Business Management
Level 4	• Practicum in Entrepreneurship

Aligned Advanced Academic Courses

AP or IB	AP Microeconomics AP Statistics IB Economics SL IB Economics HL
Dual Credit	Dual credit offerings will vary by local education agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Intern at local business in the HR department • Shadow the COO of a local business or chamber of commerce
Expanded Learning Opportunities	• Participate in BPA,DECA, FBLA, or related UIL events • Explore student membership in related professional organizations

Aligned Industry-Based Certifications

- Project Management Institute (PMI) Project Management Ready



Example Postsecondary Opportunities

Associate Degrees
- Business Administration and Management
- Human Resources Management

Bachelor's Degrees
- Business Analytics
- Accounting and Business

Master's, Doctoral, and Professional Degrees
- Business Administration and Management
- Organizational Leadership

Additional Stackable IBCs/License
- Professional Certificate in Team Leadership
- Property Tax Professionals

Example Aligned Occupations

First-Line Supervisors of Administrative Support Workers
Median Wage: $59,585
Annual Openings: 13,885
10-Year Growth: 9%

Human Resources Specialists
Median Wage: $61,278
Annual Openings: 6,239
10-Year Growth: 23%

General and Operations Managers
Median Wage: $83,220
Annual Openings: 25,450
10-Year Growth: 23%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Business Management

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Further nondiscrimination information can be found at Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Business Management program of study will fulfill requirements of the Business and Industry endorsement.

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	• Principles of Agriculture, Food, and Natural Resources
Level 2	• Small Animal Management • Equine Science
Level 3	• Livestock Production
Level 4	• Advanced Animal Science

Aligned Advanced Academic Courses

AP or IB	AP Biology IB Biology SL IB Biology HL
Dual Credit	Dual credit offerings will vary by local education agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Shadow an animal scientist in a biology lab to learn about applying science to understand animals and wildlife • Intern in a veterinary clinic, caring for animals and wildlife being treated in the clinic
Expanded Learning Opportunities	• Participate in an FFA career, leadership, and speaking contest like an agriscience fair • Attend an agricultural industry seminar

Aligned Industry-Based Certifications

- Elanco Fundamentals of Animal Science Certification
- Elanco Veterinary Medical Applications Certification

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Further nondiscrimination information can be found at Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement.



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: $29,906
Annual Openings: 1,348
10-Year Growth: 24%

Veterinary Technologists and Technicians
Median Wage: $33,679
Annual Openings: 1,217
10-Year Growth: 24%

Veterinarian
Median Wage: $103,160
Annual Openings: 347
10-Year Growth: 26%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Animal Science

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: Plant Science

The Plant Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of plants and other living organisms. This program of study includes the application of biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.

Secondary Courses for High School Credit

Level 1	• Principles of Agriculture, Food, and Natural Resources
Level 3	• Floral Design
Level 4	• Advanced Plant and Soil Science • Advanced Floral Design

Aligned Advanced Academic Courses

AP or IB	AP Biology AP Environmental Science IB Biology SL IB Biology HL	AP Chemistry IB Chemistry SL IB Chemistry HL
Dual Credit	Dual credit offerings will vary by local education agency.	

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Work in a part-time job at a landscaping company to learn about production and management of plants. • Intern at an agricultural research company, working alongside a biological technician to learn about application of biology to plant production
Expanded Learning Opportunities	• Participate in an FFA career, leadership, and speaking contest like an agriscience fair • Participate in an industry-related competition like an agriscience fair

Aligned Industry-Based Certifications

- BASF Plant Science Certification
- Principles of Floral Design Certification
- Texas State Florists' Association Knowledge Based Floral Certification
- Texas State Florists' Association Level I Floral Certification

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net
Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Further nondiscrimination information can be found at
Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Plant Science program of study will fulfill requirements of the Business and Industry endorsement.



Example Postsecondary Opportunities

Apprenticeships
- Horticulturist

Associate Degrees
- Biology/Biological Sciences
- Biological and Physical Sciences

Bachelor's Degrees
- Horticulture
- Plant Pathology/Phytopathology

Master's, Doctoral, and Professional Degrees
- Plant Breeding
- Botany/Plant Biology

Additionall Stackable IBCs/License
- Nursery Floral License
- Horticulturist Certification

Example Aligned Occupations

Pesticide Handlers, Sprayers, and Applicators, Vegetation
Median Wage: $46,153
Annual Openings: 205
10-Year Growth: 17%

Biological Technicians
Median Wage: $45,787
Annual Openings: 879
10-Year Growth: 14%

Farmers, Ranchers, and Other Agricultural Managers
Median Wage: $65,490
Annual Openings: 28,020
10-Year Growth: 4%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Plant Science

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	• Principles of Agriculture, Food, and Natural Resources
Level 2	• Agricultural Mechanics and Metal Technologies • Agricultural Mechanics and Metal Technologies + Agricultural Laboratory and Field Experience
Level 3	• Agricultural Structures Design and Fabrication
Level 4	• Agricultural Equipment Design and Fabrication + Agricultural Laboratory and Field Experience

Aligned Advanced Academic Courses

Dual Credit	Dual credit offerings will vary by local education agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Participate in a farm mechanic apprenticeship at an equipment production company • Intern at an equipment manufacturing facility working with agricultural engineers
Expanded Learning Opportunities	• Participate in an FFA career, leadership, and speaking contest like an agriscience fair • Participate in an agriculture robotics event

Aligned Industry-Based Certifications

- AWS D1.1 Structural Steel
- AWS D9.1 Sheet Metal Welding

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862
jkaufman@trinityisd.net
Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862
jkaufman@trinityisd.net

Further nondiscrimination information can be found at
Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Agricultural Technology and Mechanical Systems program of study will fulfill requirements of the Business and Industry endorsement.



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: $46,582
Annual Openings: 326
10-Year Growth: 23%

Mobile Heavy Equipment Mechanics
Median Wage: $57,943
Annual Openings: 2,637
10-Year Growth: 31%

Farmers, Ranchers, and Other Agricultural Managers
Median Wage: $65,490
Annual Openings: 28,020
10-Year Growth: 4%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Agricultural Technology and Mechanical Systems

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: Health Informatics

The Health Informatics program of study focuses on occupational and educational opportunities associated with the management and use of patient information in the healthcare field. This program of study includes exploration of computerized healthcare systems and the process of creating and maintaining hospital and patient records in accordance with regulatory requirements of the healthcare system. Students will also practice writing and interpreting medical reports.

Secondary Courses for High School Credit

Level 1	• Principles of Health Science • Business Information Management I
Level 2	• Medical Terminology
Level 3	• Health Informatics • Health Science Theory • **Anatomy & Physiology**

Aligned Advanced Academic Courses

AP or IB	AP Statistics
Dual Credit	Dual credit offerings will vary by local education agency.

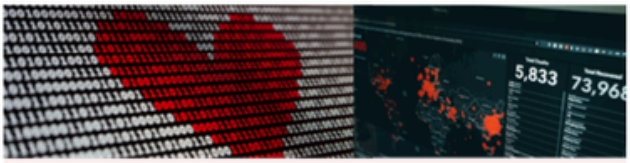
Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Intern with a medical records specialist or health services manager • Job shadow a medical services manager to understand how services and facilities are managed
Expanded Learning Opportunities	• Participate in HOSA, DECA, SkillsUSA, or BPA

Aligned Industry-Based Certifications

- Insurance and Coding Specialist
- Level 1 Certificate In Medical Records
  *SHSU Polytechnic Dual Credit Program



Example Postsecondary Opportunities

Apprenticeships
- Medical Coder

Associate Degrees
- Health Information/Medical Records Technology
- Medical Assisting

Bachelor's Degrees
- Nursing Administration
- Medical Insurance Coding

Master's, Doctoral, and Professional Degrees
- Nursing Administration
- Hospital and Health Care Facilities Administration

Additional Stackable IBCs/License
- Consumer Health Information Specialization – Level I

Example Aligned Occupations

Medical Secretaries/ Administrative Assistants
Median Wage: $36,994
Annual Openings: 10,505
10-Year Growth: 21%

Medical Records Specialists
Median Wage: $39,408
Annual Openings: 2,763
10-Year Growth: 18%

Medical and Health Services Managers
Median Wage: $102,937
Annual Openings: 4,787
10-Year Growth: 43%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Health Informatics

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net
Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Further nondiscrimination information can be found at Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Health Informatics program of study will fulfill requirements of the Public Services endorsement.

SamPoly



HEALTH INFORMATION TECHNOLOGY (HIT)

9th Grade				
ISD	Service ID	CR	SamPoly	SCH
English I		1		
W. Geography		1		
Algebra I		1		
IPC		1		
Foreign Language I		1		
Fine Arts Credit		1		
P.E. Credit		1		
Principles of Health Informatics	N1302108	1	HPRS 1201 (F), HITT 1211 (S)	4
TOTAL CREDITS		8		4

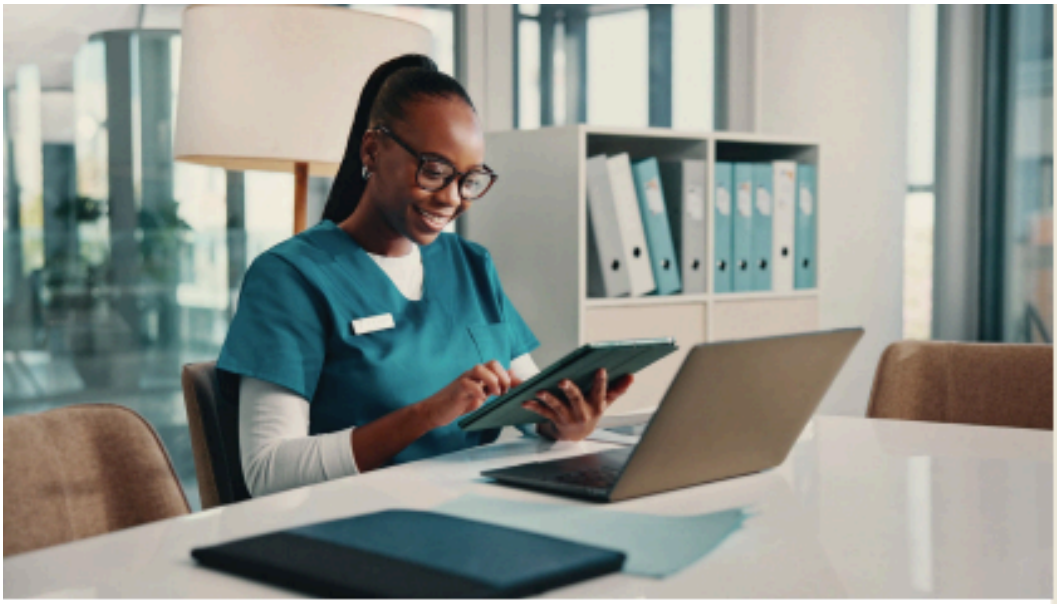
11th Grade				
ISD	Service ID	CR	SamPoly	SCH
English III		1		
World History		1		
Algebra II		1		
Physics		1		
Elective		1		
Anatomy & Physiology	13020600	1	SCIT 1307	3
Elective		1		
TOTAL CREDITS		7		3

(F) = Fall, (S) = Spring

10th Grade				
ISD	Service ID	CR	SamPoly	SCH
English II		1		
US History		1		
Geometry		1		
Biology		1		
Foreign Language II		1		
Speech		0.5		
Elective		1		
Medical Terminology	13020300	1	HITT 1305 (F), HITT 1253 (S)	5
TOTAL Credits		7.5		5

12th Grade				
ISD	Service ID	CR	SamPoly	SCH
English IV		1		
Economics		0.5		
US Government		0.5		
Pre-Cal/ 4th Math		1		
4th Science		1		
Elective		1		
Health Informatics	13020960	1	HITT 1301 (F), ITSC 1309 (S)	6
TOTAL CREDITS		7		6

Total Credits	29.5	SamPoly TOTAL Semester Credit Hours	18



READY, SET, CAREER.

The Health Information Technology (HIT) Program is designed to equip students with the technical knowledge and practical skills required to manage and protect healthcare data in a rapidly evolving medical environment. The curriculum aligns with national certification standards and emphasizes medical records management, diagnostic and procedural coding, data integrity and healthcare data analytics.

Through a combination of coursework and structured clinical experiences, students gain hands-on training in real-world healthcare settings.
The program integrates strong partnerships with regional healthcare providers to ensure students develop applied skills in electronic health record systems, compliance standards and regulatory requirements.

Upon completion of the program, students are well-prepared to pursue national certification and enter the growing field of health information management with the credentials and experience employers seek.

SKILLS YOU'LL GAIN

- → Technical skills to analyze and protect healthcare data.
- → Professional management of medical records, diagnostic and procedural coding, and healthcare data analytics.
- → Develop applied skills in electronic health record systems, compliance standards and regulatory requirements.

STATEWIDE INDUSTRY STATS*

- → **Current Workforce**: 39,631
- → **Median Salary:** $50,500
- → **Open Positions**: 4,030

**Data provided by Lightcast, 2025.*

PROGRAM OVERVIEW

PROGRAM LENGTH
LEVEL I MEDICAL RECORDS CERTIFICATE
15 HOURS

LEVEL II MEDICAL CODING CERTIFICATE
18 HOURS

ASSOCIATE OF APPLIED SCIENCE IN HEALTH INFORMATION TECHNOLOGY
60 HOURS

CAMPUS
ONLINE

For more Information contact:
Misty Coleman-
mcoleman@trinityisd.net or
Anna DeBorde-
adeborde@trinityisd.net

SECURE YOUR SPOT

Your future is waiting.
Enroll now to get started.

Scan the QR code below, or visit ***shsu.edu/sampoly*** to enroll today!

Sam Houston State University
Polytechnic College
MEMBER THE TEXAS STATE UNIVERSITY SYSTEM

Box 2418
Huntsville, TX 77341-2418

shsu.edu/sampoly

THE MEASURE OF A LIFE IS ITS SERVICE

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: Diagnostic and Therapeutic Services

The Diagnostic and Therapeutic Services program of study focuses on occupational and educational opportunities associated with diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

Secondary Courses for High School Credit

Level 1	• Principles of Health Science
Level 2	• Medical Terminology
Level 3	• Anatomy and Physiology • Health Science Theory

Aligned Advanced Academic Courses

AP or IB	AP Biology IB Biology SL IB Biology HL	AP Chemistry IB Chemistry SL IB Chemistry HL
Dual Credit	Dual credit offerings will vary by local education agency.	

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Intern with a medical assistant at a community clinic, hospital, assisted living, or long-term care facility • Participate in job shadowing experiences such as Emergency Medical Services (EMS) ride along or hospital/clinical job
Expanded Learning Opportunities	• Participate in Health Occupation Students of America (HOSA) or SkillsUSA • Participate in Advanced Medical Ambulance Bus (AMBUS) event or Community Emergency Response Team (CERT) event

Aligned Industry-Based Certifications

- Certified EKG Technician
- Patient Care Technician
- Phlebotomy Technician

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862
jkaufman@trinityisd.net
Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862
jkaufman@trinityisd.net

Further nondiscrimination information can be found at
Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Diagnostic and Therapeutic Services program of study will fulfill requirements of the Public Services endorsement or the STEM endorsement if the math and science requirements are met.



Example Postsecondary Opportunities

Apprenticeships
- Medical Assistant

Associate Degrees
- Emergency Medical Technology
- Radiologic Technology/Science

Bachelor's Degrees
- Emergency Medical Technology
- Medical Insurance Coding

Master's, Doctoral, and Professional Degrees
- Medicine
- Occupational Therapy

Additional Stackable IBCs/License
- Registered Diagnostic Medical Sonographer

Example Aligned Occupations

Medical Assistants
Median Wage: $36,834
Annual Openings: 11,638
10-Year Growth: 29%

Dental Hygienists
Median Wage: $79,663
Annual Openings: 1,352
10-Year Growth: 32%

Physician Assistants
Median Wage: $127,332
Annual Openings: 974
10-Year Growth: 41%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Diagnostic and Therapeutic Services

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	• Introduction to Culinary Arts
Level 2	• Culinary Arts • Foundations of Restaurant Management
Level 3	• Advanced Culinary Arts
Level 4	• Food Science

Aligned Advanced Academic Courses

AP or IB	AP Chemistry IB Chemistry SL
Dual Credit	Dual credit offerings will vary by local educational agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Shadow a director of a non-profit that produces and delivers food for communities in need • Intern at a catering company and learn about food production for large-scale events • Work part-time in a restaurant as a line cook or chef
Expanded Learning Opportunities	• Participate in FCCLA • Participate in SkillsUSA • Participate in American Culinary Association or the Texas Restaurant Association

Aligned Industry-Based Certifications

- Culinary Meat Selection and Cookery Certification
- ServSafe Manager



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

Bakers
Median Wage: $29,466
Annual Openings: 2,942
10-Year Growth: 26%

Chefs and Head Cooks
Median Wage: $44,761
Annual Openings: 950
10-Year Growth: 37%

General and Operations Managers
Median Wage: $83,220
Annual Openings: 25,450
10-Year Growth: 23%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862
jkaufman@trinityisd.net
Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862
jkaufman@trinityisd.net

Further nondiscrimination information can be found at
Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Culinary Arts program of study will fulfill requirements of the Business and Industry endorsement.

Architecture and Construction Career Cluster

The Architecture and Construction career cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber, and heating, air conditioning, and refrigeration technician.

Statewide Program of Study: Carpentry

The Carpentry program of study focuses on occupational and educational opportunities related to constructing, installing, and repairing structures and fixtures made of wood (including frameworks, partitions, joists, studding, rafters, and stairways). The program of study includes installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Secondary Courses for High School Credit

Level 1	• Principles of Construction
Level 2	• Construction Technology I
Level 3	• Construction Technology II • Mill and Cabinetmaking Technology

Aligned Advanced Academic Courses

Dual Credit	Dual credit offerings will vary by local education agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Intern with a carpenter to practice skills such as measuring materials and assembling structures • Participate in a pre-apprenticeship that includes activities like installing cabinets, drywall, and siding
Expanded Learning Opportunities	• Shadow a construction manager to learn more about how construction teams work together to complete projects • Participate in SkillsUSA

Aligned Industry-Based Certifications

- NCCER Core



Example Postsecondary Opportunities

Apprenticeships
- Carpenter

Associate Degrees
- Construction Management
- Construction Engineering Technology
- Building Construction Technology

Bachelor's Degrees
- Construction Engineering
- Construction Science
- Construction Site Management

Master's, Doctoral, and Professional Degrees
- Construction Engineering Technology
- Construction Engineering
- Construction Management
- Project Management

Example Aligned Occupations

Drywall and Ceiling Tile Installers
Median Wage: $44,699
Annual Openings: 758
10-Year Growth: 14%

Carpenters
Median Wage: $46,272
Annual Openings: 5,623
10-Year Growth: 15%

Construction Managers
Median Wage: $95,072
Annual Openings: 6,325
10-Year Growth: 24%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Carpentry

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Further nondiscrimination information can be found at Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Carpentry program of study will fulfill requirements of the Business and Industry endorsement.

Law and Public Service Career Cluster

The Law and Public Service career cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. This career cluster includes occupations ranging from all aspects of the military, police officer and firefighter to political scientist and lawyer.

Statewide Program of Study: Law Enforcement

The Law Enforcement program of study focuses on occupational and educational opportunities associated with the development and enforcement of laws by various branches of law enforcement. This program of study includes the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Secondary Courses for High School Credit

Level 1	• Principles of Law, Public Safety, Corrections, and Security
Level 2	• Criminal Investigation
Level 3	• Correctional Services
Level 4	• Forensic Science



Example Postsecondary Opportunities

Apprenticeships
- Security Specialist

Associate Degrees
- Criminal Justice
- Law Enforcement

Bachelor's Degrees
- Forensic Science
- Criminal Justice

Master's, Doctoral, and Professional Degrees
- Criminal Justice
- Criminology and Criminal Justice

Additional Stackable IBCs/Licensures
- Jailer – Basic County Corrections
- Basic Telecommunicator

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Shadow a detective to learn about investigations and the role of detectives in law enforcement • Intern in dispatch at a local law enforcement agency to learn about first responder roles and processes
Expanded Learning Opportunities	• Visit a police department • Participate in TSA or SkillsUSA, or TPSA

Example Aligned Occupations

Police and Sheriff's Patrol Officers
Median Wage: $74,014
Annual Openings: 5,461
10-Year Growth: 13%

Detectives and Criminal Investigators
Median Wage: $89,394
Annual Openings: 1,555
10-Year Growth: 8%

First-Line Supervisors of Police and Detectives
Median Wage: $105,836
Annual Openings: 526
10-Year Growth: 12%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit: https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/lps-law-enforcement-extendedpptx.pdf

Aligned Industry-Based Certifications

- Certified Protection Officer (CPO)
- County Jailer
- Forensic Technician
- IAED Emergency Telecommunicator
- Mental Health Technician Certification (MHTC)
- Non-Commissioned Security Officer Level II License
- Private Security - Commissioned Security Officer
- Telecommunicator License

Trinity ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Trinity ISD no discriminapormotivos de raza, color, origennacional, sexo, o discapacidadensusprogramas o actividades y brindaigualdad de acceso a los Boy Scouts y otrosgrupos juveniles designados. La siguiente persona ha sidodesignada para manejarconsultassobre las políticas de no discriminación: Dr. John Kaufman, 101 West Jefferson Trinity, Tx. 75862 jkaufman@trinityisd.net

Further nondiscrimination information can be found at Notification of Nondiscrimination in Career and Technical Education Programs.

Successful completion of the Law and Public Service program of study will fulfill requirements of the Public Services endorsement.

Law Enforcement