

EMS ISD CTE Programs of Study 2025-2026

9/30/2024

Agriculture, Food and Natural Resources

Veterinary Science			Plant Science		
Grade	Course	Cr	Grade	Course	Cr
9th-10th	Prin of Agricult [#]	1	9th-10th	Prin of Agricult [#]	1
10th-11th	Sm Animal & Equine [#]	.5	9th-10th	Floral Design ^R	1
	OR Livestock [#]	1	11th-12th	Greenhouse Oper (TCC Dual Cr) ^{***}	2
11th-12th	Vet Med Appl /Adv Animal Sci*	2	12th	Horticulture Sci / Adv Plant/Soil (TCC Dual Cr) ^{***}	2
12th	Pract in Ag*	2			

Elanco Vet Med Applications; CVA

Texas State Floral Knowledge Based

Hospitality and Tourism

Culinary Arts		
Grade	Course	Cr
9th-10th	Intro to Culinary [#]	1
10th-11th	Culinary Arts*	2
11th-12th	Adv Culinary*	2
12th	Pract in Culinary*	2

Serv Safe Food Handler & Manager

Manufacturing

Welding		
Grade	Course	Cr
9th-10th	Intro to Welding [#]	1
11th	Welding 1*	2
12th	Welding 2*	2

AWS - API 1104, SMAW, GMAW, D1.1

Education and Training

Education		
Grade	Course	Cr
9th	Prin of Education [#]	1
10th	Child Dev ^R	1
10th-11th	Instruct Practices ^{#*}	2
11th-12th	Practicum in Ed 1 and 2*	2

Educational Aide 1

Arts, A/V, and Communications

Construction & Electrical Tech

Business, Marketing and Finance

Finance: SIE			Entrepreneurship		
Grade	Course	Cr	Grade	Course	Cr
8th-10th	Bus Info Mgmt 1 OR Prin of BMF [#] OR Money Matters [#]	1	8th-9th	Bus Info Mgmt	1
			9th-10th	Prin of BMF [#]	1
11th	Accounting 1 [#]	1	11th	Entrepreneurship	1
12th	Secu/Inves & Financial Analysis*	2	12th	Entrepreneurship 2	1

Accounting Basics

Entrepreneurship and Small Business

Audio/Video Production

Grade	Course	Cr
9th-10th	Prin A/V [#]	1
10th -11th	Audio/Video Prod 1*	2
11th-12th	Audio/Video Prod 2* OR Digital Audio Tech*	2

Adobe Premiere Pro

Animation and Video Game Design

Grade	Course	Cr
9th-10th	Digital Media [#]	1
10th-11th	Animation and Video Game Design*	2
11th-12th	Advanced Animation OR Advanced Vid Gam Design*	2

Adobe Photoshop

Construction/Electrical

Grade	Course	Cr
9th-10th	Prin of Construct [#]	1
11th -12th	Architecture and Electrical 1 ^{#*}	2
12th	Electrical 2*	2

Electrical Apprentice Level 1

Law, Public Safety, Corrections and Security

Advertising and Marketing NEW*		
Grade	Course	Cr
9th	Prin of BMF [#]	1
10th	Marketing [#]	1
11th	Sprts Ent 1/ Sprts Ent 2 [#]	0.5 0.5
12th	Social Media Marketing /Advertising	0.5 0.5

Entrepreneurship and Small Business

Law Enforcement

Grade	Course	Cr
9th-10th	Prin of Law [#]	1
11th	Law Enforce 1	1
12th	Law Enfor 2* / Federal Law Enf*	2
11-12th	Forensic Sci ^{*R}	1

911 Telecommunicator

Legal Studies

Grade	Course	Cr
9th-10th	Prin of Law [#]	1
10th -11th	Crts 1:Cts Sys & Prac/Bus Law*	2
11th-12th	Crts 2; Legal Res & Wri/Adv Cr ^t *	2
11th-12th	Forensic Sci ^{*R}	1

Emergency Services

Grade	Course	Cr
9th-10th	Prin of Law [#]	1
11th	Fire Fighter 1 (TCC Dual Cr) ^{***}	2
11th	Anat/Phys	1
12th	EMR	2

Emergency Medical Responder, Phlebotomy

R Course is recommended

Course is prerequisite to advanced courses

* Course is at HCTC and may include additional costs

** Course is at TCC Alliance

*** Course is at TCC NW

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Science, Technology, Engineering, Mathematics, and Information Technology

Engineering			Networking and Cybersecurity		
Grade	Course	Cr	Grade	Course	Cr
8th-9th	Prin of Appl Engin [#]	1	9th-10th	Prin of Info Tech [#]	1
10th	Intro to Robotics ^R	1	10th-11th	Networking Security/Lab*	2
10th-12th	MET 1/MET 2*	2	11th-12th	Foundations of Cybersecurity Capstone*	2
11-12th	Aerospace Eng 1* OR Drone Eng*	2			
12th	Aviation Ground School: Prac STEM*	2			

Fusion 360, Certified Solidworks Associate

CISCO RS-Tech, CCNA

Transportation, Distribution and Logistics

Aircraft Maintenance			Automotive		
Grade	Course	Cr	Grade	Course	Cr
9th-10th	Intro to Transp [#]	.5	9th-10th	Intro to Transp [#]	.5
11th	Intro to Aircraft**	3	10th-11th	Auto Tech 1*	2
12th	Aircraft PwrPlnt**	3	11th-12th	Auto Tech 2*	2
			12th	Practicum in Auto*	2

ASE - Brakes, Steering and Suspension, Electrical, Engine Performance, and Maintenance and Light Repair

Learn more by scanning!



Health Science Technology

Biomedical Science			Health Science			Health Science: Diagnostic and Therapeutic Services		
Grade	Course	Cr	Grade	Course	Cr	Grade	Course	Cr
9th	Princ of Hlth Sci [#]	1	9th	Princ of Hlth Sci [#]	1	9th	Princ of Hlth Sci [#]	1
10th	Medical Term ^R	1	10th	Medical Term	1	10th	Medical Term ^R	1
11th - 12th	Anat/Phys OR Pathophysiology	1	11th-12th	Anatomy/Phys	1	11th - 12th	Anat/Phys OR Pathophysiology	1
11th -12th	Biomed Rsch*	2	11th-12th	Pathophysiology	1	12th	Hlth Sci Thry*: SM, PCT, EMR, PT	2

EKG Tech, Phlebotomy, Patient Care Technician

Emergency Medical Responder

Pharmacy Technician

EKG Tech, Phlebotomy, Patient Care Technician

Emergency Medical Responder

Pharmacy Technician

Human Services

Family and Community Services			Cosmetology		
Grade	Course	Cr	Grade	Course	Cr
8th-9th	Prin of Hum Svc	1	11th	Intro to Cosmo & Cosmetology 1*	3
10th	Dollars & Sense & Interpers Std OR Child Dev	.5 .5 1	12th	Cosmetology 2*	3
11th	Couns & Mnt Hlth	1			
12th	Fam&Comm Cpstn	1			

Community Health Worker

Cosmetology Operator, Barbering

CTE Department

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CAREER AND TECHNICAL EDUCATION

INTEGRATING
education and the workplace.

ENGAGING
students in their educational journey.

FOSTERING
a commitment to post-secondary education.

PREPARING
students to create their future in the 21st-century workforce.

We are dedicated to preparation for success in high-demand occupations in a competitive global economy.

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** Course is at TCC Alliance

*** Course is at TCC NW