

EMS ISD CTE Programs of Study 2026-2027

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 and Poultry [#]	.5	11th-12th	Greenhouse Oper (TCC Dual Cr)***	2
11th-12th	Vet Science/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 Ag 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

Business, Marketing and Finance

Finance & Investing			Entrepreneurship		
Grade	Course	Cr	Grade	Course	Cr
9th-10th	Prin of BMF [#]	1	9th - 10th	Prin of BMF [#]	1
10-11th	Money Matters [#]	1	9th - 10th	Digital Media	1
11th -12th	Stock Market Investing and Analysis*	2	11th	Entrepreneurship	1
11th -12th	Business Investing and Management*	2	12th	Social Media Marketing /Advertising	0.5

Accounting Basics, SIE

Entrepreneurship and Small Business

Advertising and Marketing

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

Entrepreneurship and Small Business

Audio/Video Production

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

Law Enforcement

Grade	Course	Cr
9th-10th	Prin of Law [#]	1
10th-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 Crt*	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	Phlebotomy / 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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Engineering

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

*Fusion 360, Certified Solidworks
Associate*

Information Technology

Networking and Cybersecurity		
Grade	Course	Cr
9th-10th	Prin of Info Tech [#]	1
10th-11th	Networking Security/Lab*	2
11th-12th	Foundations of Cybersecurity Capstone*	2

Cybersecurity Fundamentals; CCNA

Transportation, Distribution and Logistics

Aircraft Maintenance		
Grade	Course	Cr
9th-10th	Intro to Transp [#]	.5
11th	Intro to Aircraft**	3
12th	Aircraft Pwrplnt**	3

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

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

Health Science Technology

Biomedical Science		
Grade	Course	Cr
9th	Princ of Hlth Sci [#]	1
10th	Medical Term ^R	1
11th - 12th	Anat/Phys OR Pathophysiology	1
11th -12th	Biomed Rsch*	2

Health Science		
Grade	Course	Cr
9th	Princ of Hlth Sci [#]	1
10th	Medical Term	1
11th-12th	Anatomy/Phys	1
11th-12th	Pathophysiology	1

Health Science: Diagnostic and Therapeutic Services		
Grade	Course	Cr
9th	Princ of Hlth Sci [#]	1
10th	Medical Term ^R	1
11th	Hlth Sci Thry*: SM	2
12th	Practicum in HST*: PCT, Phl/EMR, PharmT	2

*EKG Tech, Phlebotomy, Patient Care
Technician*

Emergency Medical Responder

Pharmacy Technician

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

*EKG Tech, Phlebotomy, Patient Care
Technician*

Emergency Medical Responder

Pharmacy Technician

Human Services

Family and Community Services		
Grade	Course	Cr
8th-9th	Prin of Hum Svc	1
10th -11th	Dollars & Sense & Interpers Std OR	.5 .5
10th-11th	Child Dev	1
12th	Couns & Mnt Hlth	1

Cosmetology		
Grade	Course	Cr
11th	Intro to Cosmo & Cosmetology 1*	3
12th	Cosmetology 2*	3

Cosmetology Operator, Barbering

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CAREER AND TECHNICAL EDUCATION

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