



# **Galena Park ISD**

## **Career and Technical Education**

Galena Park Independent School District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs, activities, or employment and provides equal access to the Boy Scouts and other designated youth groups as required by Title IX, Title VI, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act. Questions, complaints, or requests for additional information regarding the ADA and Section 504 may be forwarded to the designated ADA and Section 504 compliance coordinator.

El Distrito Escolar Independiente de Galena Park no discrimina por motivos de raza, color, nacionalidad, sexo, discapacidad o edad en sus programas, actividades o empleo y brinda igualdad de acceso a los Boy Scouts y otros grupos juveniles designados según lo exige el Título IX, Título VI, Sección 504 de la Ley de Rehabilitación de 1973 y la Ley de Estadounidenses con Discapacidades. Las preguntas, quejas o solicitudes de información adicional sobre la ADA y la Sección 504 pueden enviarse al Coordinador de cumplimiento designado de la ADA y la Sección 504.

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# CTE Offerings and Details

ENDORS	PEIMS #	LOCAL COURSE #	CONTACT	PATHWAYS/COURSES	ABBREV	CREDITS	WEIGHTED GPA	ADVANCED CTE	PREREQUISITE	CAMPUS	GRADE
<b>AGRICULTURE, FOOD, AND NATURAL RESOURCES</b>											
B&I/STEM	13000200	0A0001/02	Jensen	Principles of Agriculture, Food, and Natural Resources	PRINAFNR	1				GPHS, NS9, NSSH	9-12
B&I/STEM	13000300	0A1001/02	Jensen	Livestock Production	LIVEPROD	1		Adv		GPHS, NSSH	10-12
B&I/STEM	13000400	0A1100	Jensen	Small Animal Management	SMANIMGT	.5				GPHS, NSSH	9-12
B&I/STEM	13000500	0A1200	Jensen	Equine Science	EQUINSCI	.5				GPHS, NSSH	9-12
B&I/STEM	13000610	0V1311/12	Jensen	Veterinary Medical Applications Lab	VETMEDLAB	2		Adv	SMALL AN, EQUI SCI or LIVE PROD	GPHS, NSSH	11-12
B&I/STEM	13000700	0A1401/02	Jensen	Advanced Animal Science	ADVANSKI	1		Adv	BIO; CHEM or IPC, SMALL AN, EQUI SCI or LIVE PROD	GPHS, NSSH	11-12
B&I/STEM	13001800	0A5301/02	Jensen	Floral Design	FLORAL	1 Art		Adv			10-12
B&I/STEM	13002500	0A9001	Jensen	Practicum in Agriculture, Food and Natural Resources	PRACAFNR1	2	Yes, 5.0	Adv	1 Ag Course	GPHS, NSSH	11-12

<b>ARCHITECTURE AND CONSTRUCTION</b>											
BUSINESS & INDUSTRY/STEM	13004210	0C1001/02	Louviere	Principles of Architecture	PRINARC	1				NS9	9-12
	13004600	0C3001/02	Louviere	Architectural Design 1	ARCHDSN1	1			ALG 1; ENG 1	NSSH	10-12
	13004700	0C3101/02	Louviere	Architectural Design 2	ARCHDSN2	2	Yes, 5.0	Adv	ARCHDSN1; GEOM	NSSH	11-12
	13004300	0C2001/02	Louviere	Interior Design 1	INTERDS1	1			ALG 1; ENG 1	NSSH	10-12
	13004400	0C2101/02	Louviere	Interior Design 2	INTERDS2	2	Yes, 5.0	Adv	ENG 2; GEOM; INTERDS1	NSSH	11-12
	13004800	0C2201/02	Louviere	Practicum in Interior Design	PRACIDS1	2	Yes, 5.0	Adv	INTERDS2	NSSH	12
	13004800	0C3201/02	Louviere	Practicum in Architectural Design	PRACADS1	2	Yes, 5.0	Adv	ARCHDSN2	NSSH	12

<b>ARTS, AUDIO/VIDEO TECHNOLOGY, AND COMMUNICATIONS</b>											
BUSINESS & INDUSTRY	13008200	0V0001/02	Louviere	Principles of Arts, Audio /Video Technology and Communications	PRINAAVTC	1				GPHS, NS9	9
	13008300	0V1001/02	Louviere	Animation 1	ANIMAT1	1				GPHS, NSSH	10-12
	13008400	0V1201/02	Louviere	Animation 2	ANIMAT2	1	Yes, 5.0	Adv	ANIMAT1	GPHS, NSSH	11-12
	13008500	0V2001/02	Louviere	Audio/Video Production 1	AVPROD1	1				GPHS, NSSH	9-12
	13008610	0V2111/12	Louviere	Audio/Video Production 2 & Lab	AVPLAB2	2	Yes, 5.0	Adv	AVPROD1	GPHS, NSSH	10-12
	13008800	0V3001/02	Louviere	Graphic Design and Illustration 1	GRAPHDI1	1				GPHS, NSSH	10-12
	13008200	0V3013/14	Louviere	AV Yearbook 1	PRINAAVTC	1				GPHS, NSSH	9-12
	13008800	0V3021/22	Louviere	GDI Yearbook 2	GRAPHDI1	1				GPHS, NSSH	10-12
	13008900	0V3031/32	Louviere	GDI Yearbook 3	GRAPHDI2	1	Yes, 5.0	Adv		GPHS, NSSH	11-12
	13008910	0V3041/42	Louviere	GDI Yearbook 4	GRDLAB2	2	Yes, 5.0	Adv		GPHS, NSSH	12
	13008900	0V3101/02	Louviere	Graphic Design and Illustration 2	GRAPHDI2	1	Yes, 5.0	Adv	GRAPHDI1	GPHS	11-12
	13008910	0V3111/12	Louviere	Graphic Design and Illustration 2 & Lab	GRDLAB2	2	Yes, 5.0	Adv	GRAPHDI1	NSSH	11-12
	13009100	0V4001/02	Louviere	Commercial Photography 1	CPHOTO1	1				GPHS, NSSH	10-12
	13009200	0V4101/02	Louviere	Commercial Photography 2	CPHOTO2	1	Yes, 5.0	Adv		GPHS	10-12
	13009210	0V4111/12	Louviere	Commercial Photography 2 & Lab	CPHLAB2	2	Yes, 5.0	Adv		NSSH	10-12
	13009300	0V5001/02	Louviere	Fashion Design 1	FASHDSN1	1				NSSH	10-12
	13009400	0V5101/02	Louviere	Fashion Design 2	FASHDSN2	1	Yes, 5.0	Adv	FASHDSN1	NSSH	10-12
	13009900	0V6400	Louviere	Professional Communication	PROFCOMM	0.5				NSSH	8-12
	13009950	0V6501/02	Louviere	Digital Audio Technology 1	DATECH1	1				NSSH	10-12
	13009960	0V6601/02	Louviere	Digital Audio Technology 2	DATECH2	1	Yes, 5.0	Adv	DATECH1	NSSH	10-12
	N1300995	0V6721/22	Louviere	Adv. Video Game Programming	ADVVIDEOGP	1	Yes, 5.0	Adv	VIDEOPR	NSSH	10-12
	N1300994	0V6731/32	Louviere	Video Game Programming	VIDEOPR	1				NS9	9-12
	13008450	0V1301/02	Louviere	Practicum in Animation	PRACANI1	2	Yes, 5.0	Adv	ANILAB2	NSSH	11-12
	13008700	0V2201/02	Louviere	Practicum in Audio/Video Production	PRACAVP1	2	Yes, 5.0	Adv	AVPLAB2	GPHS, NSSH	11-12
	13009000	0V3201/02	Louviere	Practicum in Graphic Design & Illustration	PRACGRD1	2	Yes, 5.0	Adv	GRDLAB2	NSSH	11-12
	13009250	0V4201/02	Louviere	Practicum in Commercial Photography	PRACCPH1	2	Yes, 5.0	Adv	CPHLAB1	GPHS, NSSH	11-12
	13009500	0V5201/02	Louviere	Practicum in Fashion Design	PRACFAS1	2	Yes, 5.0	Adv	FASLAB2	NSSH	11-12
	13008700	0V6611/12	Louviere	Practicum in Digital Audio	PRACAVP1	2	Yes, 5.0	Adv	DATECH2	NSSH	11-12
	N1303425	0V6801/02	Louviere	Practicum in Video Game	PRACENT	2	Yes, 5.0	Adv	ADVVIDEOGP	NSSH	11-12

ENDORS	PEIMS #	LOCAL COURSE #	CONTACT	PATHWAYS/COURSES	ABBREV	CREDITS	WEIGHTED GPA	ADVANCED CTE	PREREQUISITE	CAMPUS	GRADE
<b>BUSINESS, MARKETING, AND FINANCE</b>											
BUSINESS & INDUSTRY	13011200	OB0001/02	Jensen	Principles of Business, Marketing, and Finance	PRINBMF	1				GPHS, NS9, NS10	9-11
	13011400	OB1001/02	Jensen	Business Information Management 1	BUSIM1	1				GPHS, NS9, NS10	9-12
	13011400	OB1051/52	Jensen	Business Information Management 1	BUSIM1	1				NSSH	9-12
	13011500	OB1101/02	Jensen	Business Information Management 2	BUSIM2	1	Yes, 5.0		BUSIM1	GPHS, NSSH	10-12
	13011600	OB2001/02	Jensen	Business English	BUSENGL	1			ENG 3	NSSH	12
	13011600	OB2003/04	Jensen	Business English - Non-Remedial	BUSENGL	1			ENG 3	NSSH	12
	13011700	OB3001/02	Jensen	Business Law	BUSLAW	1				NSSH	11-12
	13011800	OB4000	Jensen	Global Business	GLOBBUS	.5		Adv		GPHS, NSSH	10-12
	13012000	OB6001	Jensen	Virtual Business	VIRTBUS	.5				GPHS, NSSH	10-12
	13016200	OF0001/02	Jensen	Money Matters	MONEYM	1				NSSH	9-12
	13016600	OF4001/02	Jensen	Accounting 1	ACCOUNT1	1				GPHS, NSSH	10-12
	13016700	OF4101/02	Jensen	Accounting 2	ACCOUNT2	1	Yes, 5.0	Adv	ACCOUNT1	GPHS, NSSH	11-12
	13018000	OF5101/02	Jensen	Financial Mathematics	FINMATH	1			ALG 1	GPHS, NSSH	10-12
	13034400	OK1001/02	Jensen	Entrepreneurship	ENTREP	1				NSSH	10-12
	13034600	OK2000	Jensen	Sports and Entertainment Marketing	SPORTSEM	.5				NS9, NSSH	9-12
	13034650	OK2100	Jensen	Social Media Marketing	SMEDMKTG	.5		Adv		NS9, NSSH	10-12
	13034200	OK0004	Jensen	Advertising	ADVERTIS	.5				NSSH	10-12
	84900XXX	OR2001/12	Jensen	Career Preparation Training	LC CR&TE	0				NSSH	9-12
	13012200	OB7101/02	Jensen	Practicum in Business Management 1	PRACBM	2	Yes, 5.0	Adv		GPHS, NSSH	11-12
	13012205	OB7111/12	Jensen	Ext. Practicum in Business Management 1	EXPRBM	3	Yes, 5.0	Adv		GPHS, NSSH	11-12
	N1303425	OK1101/02	Jensen	Practicum in Entrepreneurship	PRACENT	2	Yes, 5.0	Adv		GPHS, NSSH	11-12
	13034800	OK3101/02	Jensen	Practicum in Marketing 1	PRACMKT1	2	Yes, 5.0	Adv		NSSH	11-12
	13034805	OK3111/12	Jensen	Ext. Practicum in Marketing 1	EXPRMKT1	3	Yes, 5.0	Adv		NSSH	11-12
	12701300	OR0001/02	Jensen	Career Preparation 1	CAREERP1	2		Adv		NSSH	11-12

<b>EDUCATION AND TRAINING</b>											
PUBLIC SERVICE	13014200	OD0001/02	Louviere	Principles of Education and Training	PRINEDTR	1				GPHS, NSSH	9-10
	13024200	OU0001/02	Louviere	Principles of Human Services	PRINHUSR	1				NS9	9
	13014300	OD1001/02	Louviere	Human Growth and Development	HUGRDEV	1				GPHS, NSSH	10-12
	13014400	OD2001/02	Louviere	Instructional Practices in Education and Training	INPRAC	2	Yes, 5.0	Adv	1 Edu Course	GPHS, NSSH	11-12
	13014500	OD2101/02	Louviere	Practicum in Education and Training	PRACEDT1	2	Yes, 5.0	Adv	INPRAC	GPHS, NSSH	12

<b>HEALTH SCIENCE</b>											
PUBLIC SERVICE/STEM	13020200	OH0001/02	Louviere	Principles of Health Science	PRINHLSC	1				GPHS, NS9	9-10
	13020300	OH1001/02	Louviere	Medical Terminology	MEDTERM	1				GPHS, NS10, NSSH	10-11
	13020400	OH2001/02	Louviere	Health Science Theory	HLTHSCI	1	Yes, 5.0	Adv	BIO	GPHS, NSSH	11-12
	13020600	OH4001/02	Louviere	Anatomy and Physiology	ANATPHYS	1 Sci		Adv	BIO; 2nd Science	GPHS, NSSH	11-12
	13020700	OH5001/02	Louviere	Medical Microbiology	MICRO	1 Sci		Adv	BIO; CHEM	GPHS, NSSH	10-12
	13020500	OH1031/32	Louviere	Practicum in Health Science - Medical Assisting	PRACHLS1	2	Yes, 5.0	Adv	HLTHSCI; BIO	GPHS, NSSH	12
	13020410	OH2121/22	Louviere	Health Science Theory/Clinical	HLSClin	2	Yes, 5.0	Adv	BIO	GPHS, NSSH	11-12
	13020500	OH3101/02	Louviere	Practicum in Health Science - Dental	PRACHLS1	2	Yes, 5.0	Adv	HLTHSCI; BIO	GPHS, NSSH	12
	13020505	OH3211/12	Louviere	Practicum in Health Science - Medical Cooperative	EXPRHLS1	3	Yes, 5.0	Adv	HLTHSCI; BIO	GPHS, NSSH	12
	13020500	OH9221/22	Louviere	Practicum in Health Science - Patient Care Technician	PRACHLS1	2	Yes, 5.0	Adv	HLTHSCI; BIO	NSSH	12
	13020500	OH9331/22	Louviere	Practicum in Health Science - Pharmacy Technician	PRACHLS1	2	Yes, 5.0	Adv	HLTHSCI; BIO	GPHS, NSSH	12
	13020200	OH9001/02	Louviere	Athletic Trainer 1	PRINHLSC	1				GPHS, NS9	9-10
	13020410	OH9021/22	Louviere	Athletic Trainer 2	HLSClin	2	Yes, 5.0	Adv	BIO	GPHS, NSSH	10-12
	13020500	OH9031/32	Louviere	Athletic Trainer 3	PRACHLS1	2	Yes, 5.0	Adv	HLTHSCI; BIO	GPHS, NSSH	11-12
	13020510	OH9041/42	Louviere	Athletic Trainer 4	PRACHLS2	2	Yes, 5.0	Adv	HLTHSCI; BIO	GPHS, NSSH	12

**\* Green Highlighted - Limited Seating**

ENDORS	PEIMS #	LOCAL COURSE #	CONTACT	PATHWAYS/COURSES	ABBREV	CREDITS	WEIGHTED GPA	ADVANCED CTE	PREREQUISITE	CAMPUS	GRADE
<b><i>HOSPITALITY AND TOURISM</i></b>											
BUSINESS & INDUSTRY	13022550	OP2001/02	Louviere	Introduction to Culinary Arts	INCULART	1				GPHS, NSSH	9-10
	13022600	OP2101/02	Louviere	Culinary Arts	CULARTS	2				GPHS, NSSH	10-12
	13022650	OP2201/02	Louviere	Advanced Culinary Arts	ADCULART	2	Yes, 5.0	Adv	CULARTS	GPHS, NSSH	11-12
	13022700	OP2301/02	Louviere	Practicum in Culinary Arts	PRACCUL1	2	Yes, 5.0	Adv	CULARTS	GPHS, NSSH	12

<b><i>HUMAN SERVICES</i></b>											
PUBLIC SERVICE	13024200	OU0001/02	Louviere	Principles of Human Services	PRINHUSR	1				NS9	9
	13024400	OU2000	Louviere	Interpersonal Studies	INTERSTU	.5				NSSH	10-12
	13024500	OU3000	Louviere	Lifetime Nutrition and Wellness	LNURTWEL	.5				NSSH	10-12
	13014300	OD1001/02	Louviere	Human Growth and Development	HUGRDEV	1				NSSH	10-12
	N1302541	OU3101/02	Louviere	Applied Nutrition	APPNUTR	1				NSSH	10-12
	13025000	OU6001/02	Louviere	Practicum in Human Services 1	PRACHUS1	2	Yes, 5.0	Adv		NSSH	11-12

<b><i>INFORMATION TECHNOLOGY</i></b>											
B&I/STEM	13027200	ON0001/02	Jensen	Principles of Information Technology	PRINIT	1				NSSH	9-10
	3580200	683551/2	Jensen	Computer Science 1	TACS1	1			ALG 1	NSSH	9-12
	13027300	ON1001/02	Jensen	Computer Maintenance	COMPMTN	1				NSSH	10-12
	A3580300	ON1021/22	Jensen	AP Computer Science, Principles	APCSPRIN	1	Yes, 5.0	Adv		NSSH	10-12
	13028000	ON4101/02	Jensen	Practicum in Information Technology	PRACIT1	2	Yes, 5.0	Adv	2 IT courses	NONE	12

<b><i>LAW AND PUBLIC SERVICE</i></b>											
PUBLIC SERVICE	13029200	OL0001/02	Jensen	Principles of Law, Public Safety, Corrections, and Security	PRINLPCS	1				GPHS, NS9	9-12
	13029300	OL1001/02	Jensen	Law Enforcement 1	LAWENF1	1				GPHS, NS10	10-12
	13029400	OL1101/02	Jensen	Law Enforcement 2	LAWENF2	1	Yes, 5.0	Adv		GPHS, NSSH	10-12
	13029550	OL2101/02	Jensen	Criminal Investigation	CRINVEST	1				NSSH	10-12
	13029700	OL3101/02	Jensen	Correctional Services	CORRSRVS	1		Adv		GPHS, NSSH	10-12
	13029500	OL2001/02	Jensen	Forensic Science	FORENSCI	1 Sci		Adv	BIO; CHEM	GPHS, NSSH	11-12
	13011700	OB3001/02	Jensen	Business Law	BUSLAW	1				NSSH	11-12
	13030100	OL5001/02	Jensen	Practicum in Law, Public Safety, Corrections, and Security	PRACLPS1	2	Yes, 5.0	Adv		NSSH	11-12
	13030100	OL5501/02	Jensen	Law Academy 1 - Year 1	PRACLPS1	1	Yes, 5.0	Adv		NSSH	11
	13030100	OL5511/12	Jensen	Law Academy 2 - Year 2	PRACLPS1	1	Yes, 5.0	Adv		NSSH	12

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ENDORS	PEIMS #	LOCAL COURSE #	CONTACT	PATHWAYS/COURSES	ABBREV	CREDITS	WEIGHTED GPA	ADVANCED CTE	PREREQUISITE	CAMPUS	GRADE
<b>MANUFACTURING</b>											
B&I/STEM	13037000	055101/02	Jensen	Robotics 1	ROBOTIC1	1				GPHS, NSSH	9-10
B&I/STEM	13037050	055201/02	Jensen	Robotics 2	ROBOTIC2	1	Yes, 5.0	Adv	ROBOTIC1	GPHS, NSSH	10-12
B&I	13032250	0M1001/02	Jensen	Introduction To Welding	INTRWELD	1				GPHS, NS9, NSSH	9-10
B&I	13032300	0M1101/02	Jensen	Welding 1	WELD1	2				GPHS, NSSH	10-12
B&I	13032400	0M1201/02	Jensen	Welding 2	WELD2	2	Yes, 5.0	Adv	WELD1	GPHS, NSSH	11-12
B&I/STEM	13033000	055401/02	Jensen	Practicum in Robotics	PRACMAN1	2	Yes, 5.0	Adv		GPHS, NSSH	12
B&I	13033000	0M1301/02	Jensen	Practicum in Manufacturing	PRACMAN1	2	Yes, 5.0	Adv		GPHS, NSSH	12

<b>SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS</b>											
B&I/STEM	13036200	0S0001/02	Jensen	Principles of Applied Engineering	PRAPPENG	1				GPHS, NS9	9-10
	13036500	0S2101/02	Jensen	Engineering Design and Presentation 1	ENGDSRP1	1		Adv	ALG 1	GPHS, NSSH	10-12
	13036600	0S2201/02	Jensen	Engineering Design and Presentation 2	ENGDSRP2	2	Yes, 5.0	Adv	ALG 1; GEOM	GPHS, NSSH	11-12
	13032900	0S2401/02	Jensen	Introduction to Aerospace	MANENGT1	1			ALG 1	NSSH	10-12
	13037200	0S2301/02	Jensen	Aerospace 1	SCIRD	1	Yes, 5.0	Adv		NSSH	11
	13037300	0S2311/12	Jensen	Aerospace 2	ENGDP RS	1	Yes, 5.0	Adv	AEROSPACE 1	NSSH	12
	13037400	0S7101/02	Jensen	Practicum in STEM (Engineering)	PRCSTEM1	2	Yes, 5.0	Adv	ALG 1; GEOM	NSSH	11-12

<b>TRANSPORTATION, DISTRIBUTION, AND LOGISTICS</b>											
BUSINESS & INDUSTRY	13039550	0T3001/02	Louviere	Automotive Basics	AUTOBASC	1				GPHS, NSSH	9-12
	13039600	0T3101/02	Louviere	Automotive Technology 1: Maintenance and Light Repair	AUTOTEC1	2		Adv		GPHS, NSSH	9-12
	13039700	0T3201/02	Louviere	Automotive Technology 2: Automotive Service	AUTOTEC2	2	Yes, 5.0	Adv	AUTOTEC1	GPHS, NSSH	11-12
	N1303800	0T4201/02	Louviere	Concepts of Distribution and Logistics Technology	DISTLOG	1				NSSH	10-12
	13040450	0T9101/02	Louviere	Practicum in Transportation Systems 1	PRACTRS1	2	Yes, 5.0	Adv		GPHS	12
	13040455	0T9111/12	Louviere	Ext. Practicum in Transportation Systems 1	EXPRTSR1	3	Yes, 5.0	Adv		GPHS, NSSH	11-12

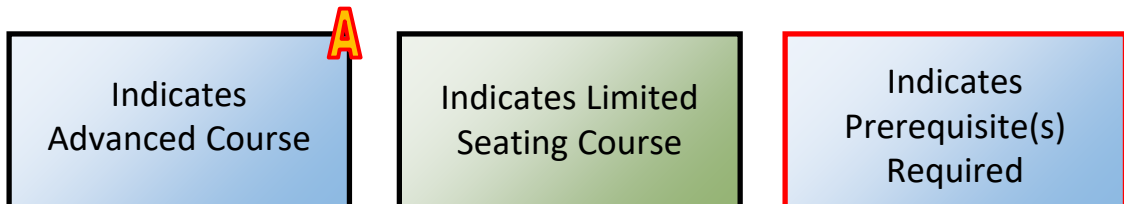
<b>MIDDLE SCHOOL COURSES</b>											
ENDORS	PEIMS #	LOCAL COURSE #	CONTACT	COURSE NAME	ABBREV	CREDITS		ADVANCED	PREREQ	CAMPUS	GRADE
B&I	13008200	HS001/02	Louviere	Principles of Arts, Audio /Video Technology and Communications	PRINAAVTC	1				WAMS	7-8
STEM	13032200	HS0M01/02	Jensen	Principles of Manufacturing	PRINMAN	1				CMS, GPMS	7-8
B&I	13009970	HS0V6A/B	Louviere	Video Game Design	VIDGD	1				ALL	7-8
MULTIPLE	13011300	HS1600 HS1601	Jensen	Touch System Data Entry	TSDATAE	.5				CMS, GPMS, NSMS	7-8
PUBLIC SER	13024200	HS4501/02	Louviere	Principles of Human Services	PRINHUSR	1				CMS, GPMS, NSMS	8
B&I	3580400	HS7501/02	Louviere	Digital Design and Media Production	TADGDMP	1				CMS, GPMS, NSMS	7-8
B&I	3580500	HS7601/02	Louviere	Digital Art and Animation	TADGAA	1		Adv	ART1	NSMS	8
B&I/PS	13009900	HS9151/52 HS9191/92	Louviere	CCR/Professional Communication	PROFCOMM	0.5				ALL	8
STEM	13036200	HSS001/02	Louviere	Principles of Applied Engineering	PRAPPENG	1				GPMS	8
NONE	82970TDS	MS0060	Jensen	Touch System Data Entry		Sem				GPMS, NSMS	7-8
NONE	12700110	MS7108	Jensen	Career and College Exploration (1st Time Taken)		Year				ALL	7-8
NONE	12700120	MS7109	Jensen	Career and College Exploration (2nd Time Taken)		Year				ALL	7-8
NONE	838000ROB	MS7218	Jensen	Info Tech		Sem				GPMS	7-8

**\* Green Highlighted - Limited Seating**

# CTE Programs of Study Frameworks & Flow Charts

- .Middle School Courses
- .Agriculture, Food, & Natural Resources
- .Architecture & Construction
- .Arts, Audio/Video, Technology & Communications
- .Business, Marketing, & Finance
- .Education & Training
- .Health Science
- .Hospitality & Tourism
- .Human Services
- .Information Technology
- .Law & Public Service
- .Manufacturing
- .Science, Technology, Engineering, & Math
- .Transportation, Distribution, & Logistics

## Key





# Middle School CTE Courses

## Options For High School Credit

Principles of Arts, A/V,  
Tech & Communications  
(1 Credit)  
8th

Digital Design & Media Production  
(1 Credit)  
8th

Principles of Manufacturing  
(1 Credit)  
8th

Digital Art & Animation  
(1 Credit)  
8th

Principles Of Applied Engineering  
(1 Credit)  
8th

Touch Systems Data Entry  
(0.5 Credit)  
8th

Video Game Design  
(1 Credit)  
8th

Principles of Human Services  
(1 Credit)  
8th

Professional Communications / CCR  
(0.5 Credit)  
8th

## Middle School Options

Career and College Exploration  
1st Time Taken  
(Year)  
7th-8th

Career and College Exploration  
2nd Time Taken  
(Year)  
7th-8th

Information Technology  
(One Semester)  
7th-8th

# 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 a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

## Animal Science Statewide Program of Study



The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches CTE learners how to apply 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 may also 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/Lab

#### Level 4

- Advanced Animal Science
- Veterinary Medical Applications/Lab
- Practicum in Agriculture, Food, and Natural Resources

### Postsecondary Opportunities

#### Associates Degrees

- Food Science and Technology
- Veterinary Studies
- Biotechnology Laboratory Technician
- Biology Technician

#### Bachelor's Degrees

- Animal Sciences
- Agriculture
- Biology
- Zoology/ Animal Biology

#### Master's, Doctoral, and Professional Degrees

- Genetics
- Veterinary Medicine
- Biological and Physical Sciences
- Biological and Biomedical Sciences

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>Participate in Texas FFA</li></ul>	<ul style="list-style-type: none"><li>Compete in an Agri-Science Fair 4H</li><li>Volunteer at a local farm or with a veterinarian</li><li>Participate in an FFA supervised agricultural experience</li></ul>

### GPISD Industry-Based Certifications

- Elanco Fundamentals of Animal Science Certification
- Elanco Veterinary Medical Applications Certification
- Equine Management & Evaluation Certification



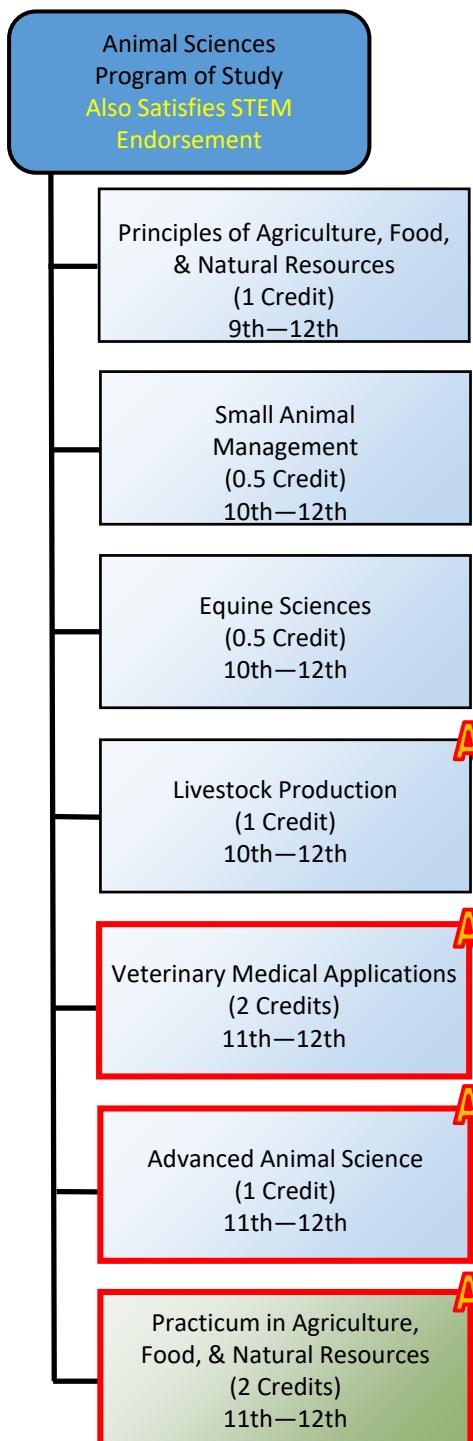
### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Animal Breeders	\$39,139	28	9%
Animal Scientists	\$57,533	22	12%
Medical Scientists	\$63,898	435	27%
Veterinarians	\$93,496	294	24%
Zoologists and Wildlife Biologists	\$67,309	45	32%

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

# Agriculture, Food, & Natural Resources Cluster

## *Business and Industry Endorsement*



Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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 a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

## Plant Science Statewide Program of Study



The Plant Science program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply 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

- Practicum in Agriculture, Food, and Natural Resources

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>Participate in Texas FFA</li> </ul>	<ul style="list-style-type: none"> <li>Work at a florist or landscaper business</li> <li>Participate in an FFA supervised agricultural experience</li> </ul>

### GPISD Industry-Based Certifications

- Principles of Floral Design Certification

### Postsecondary Opportunities

#### Associates Degrees

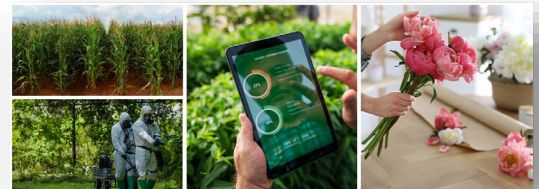
- Applied Horticulture/ Horticulture Operations, General
- Ornamental Horticulture
- Agricultural Business and Management, General
- Turf and Turfgrass Management

#### Bachelor's Degrees

- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- Agricultural Business and Management, General
- Turf and Turfgrass Management

#### Master's, Doctoral, and Professional Degrees

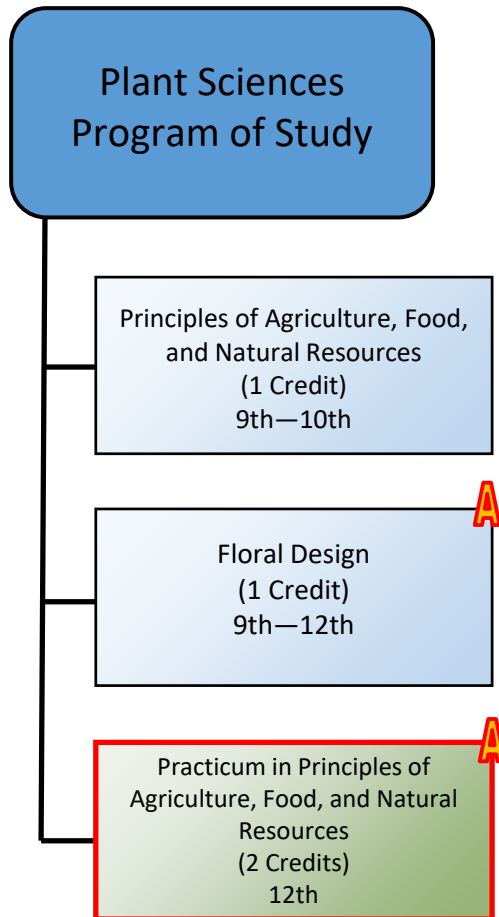
- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- Agricultural Business and Management, General
- Farm/Farm and Ranch Management



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Soil and Plant Scientists	\$54,662	116	21%
Tree Trimmers and Pruners	\$32,240	589	14%
Pesticide Handlers, Sprayers, and Applicators	\$36,733	196	22%
Landscaping Supervisors	\$44,408	807	19%
Biological Technicians	\$42,931	452	17%

**Agriculture, Food, & Natural  
Resources Cluster**  
*Business and Industry Endorsement*



Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# Architecture and Construction Career Cluster

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.

## Architectural Design Statewide Program of Study



The Architectural Design program of study explores the occupations and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study may also include exploration into collecting and interpreting geographic information, researching and preparing maps, and interior design.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Architecture

#### Level 2

- Architectural Design I
- Interior Design I

#### Level 3

- Architectural Design II
- Interior Design II

#### Level 4

- Practicum in Architectural Design
- Practicum in Interior Design

### Postsecondary Opportunities

#### Associates Degrees

- Architecture
- Interior Design
- Civil Engineering, General
- Geographic Information Science and Cartography

#### Bachelor's Degrees

- Architecture
- Interior Design
- Civil Engineering, General
- Geographic Information Science and Cartography

#### Master's, Doctoral, and Professional Degrees

- Architecture
- Interior Architecture
- Civil Engineering, General
- Geographic Information Science and Cartography

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>Shadow an architect, interior designer or civil engineer</li><li>Participate in SkillsUSA</li></ul>	<ul style="list-style-type: none"><li>Intern at an architectural firm</li></ul>

### GPISD Industry-Based Certifications

- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) Revit Architecture
- Autodesk Associate (Certified User) Revit for Electrical
- Autodesk Certified Professional in AutoCAD for Design and Drafting
- Autodesk Certified Professional in Revit for Architectural Design

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Architects	\$77,043	808	16%
Geographic Information Analysts and Surveyors	\$58,926	162	27%
Architectural/ Civil Drafters	\$50,170	1,068	9%
Construction Managers	\$87,402	2,401	14%

Successful completion of the Architectural Design program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

# Architecture & Construction Cluster

*Business and Industry Endorsement*

*Also Satisfies STEM Endorsement*

## Architectural Design Program of Study

Principles of  
Architecture  
(1 Credit)  
9th—12th

### Interior Design Sequence

Interior Design 1  
(1 Credit)  
10th—12th

Interior Design 2  
(2 Credits)  
11th—12th

Practicum in  
Interior Design  
(2 Credits)  
12th

### Architectural Design Sequence

Architectural Design 1  
(1 Credit)  
10th—12th

Architectural Design 2  
(2 Credits)  
11th—12th

Practicum in  
Architectural Design  
(2 Credits)  
12th

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)



# Arts, Audio/Video Technology, and Communications Career Cluster

The Arts, A/V Technology and Communications (AAVTC) Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

## Digital Communications Statewide Program of Study



The Digital Communications program of study explores the occupations and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. This program of study may also include exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Arts, Audio/Video Technology, and Communications

#### Level 2

- Audio/Video Production I/Lab
- Digital Audio Technology I

#### Level 3

- Audio/Video Production II/Lab
- Digital Audio Technology II

#### Level 4

- Practicum of Audio/Video Production
- Practicum in Digital Audio Technology
- Practicum in Entrepreneurship

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Shadow a production team</li><li>• Participate in SkillsUSA or TSA</li></ul>	<ul style="list-style-type: none"><li>• Intern at a local television station or video production company</li><li>• Work with a local company on a project</li></ul>

### GPISD Industry-Based Certifications

- Adobe Certified Professional in Visual Design Using Adobe Photoshop

### Postsecondary Opportunities

#### Associates Degrees

- Recording Arts Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television Broadcasting Technology/Technician
- Music Technology

#### Bachelor's Degrees

- Recording Arts Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television
- Agricultural Communication/Journalism

#### Master's, Doctoral, and Professional Degrees

- Communications Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television
- Agricultural Communication/Journalism

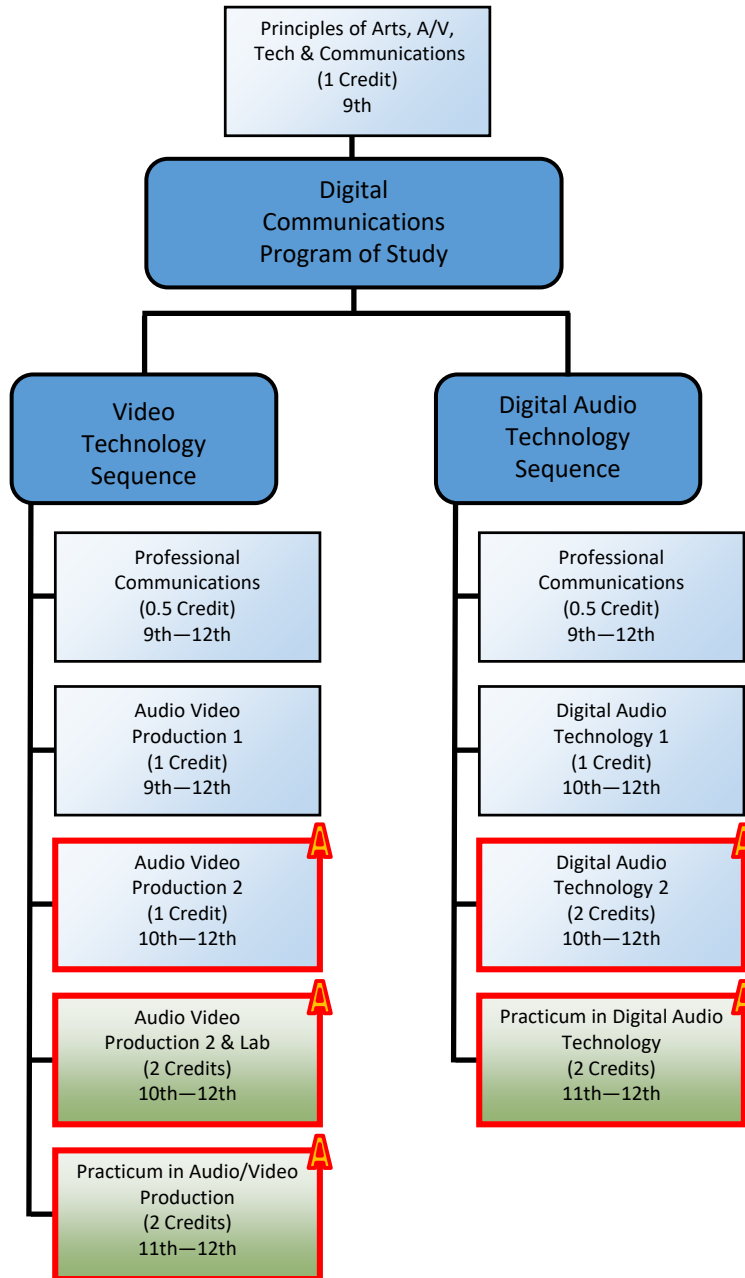


### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Sound Engineering Technicians	\$39,562	79	27%
Camera Operators, Television, Video, and Motion Picture	\$50,024	129	9%
Audio and Video Equipment Technicians	\$40,581	757	29%
Film and Video Editors	\$47,382	118	23%



**Arts, Audio/Video Technology, &  
Communications Cluster**  
*Business and Industry Endorsement*



Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# Arts, Audio/Video Technology, and Communications Career Cluster

The Arts, A/V Technology and Communications (AAVTC) Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

## Graphic Design & Multimedia Arts Statewide Program of Study



The Graphic Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into 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

- Principles of Arts, A/V Technology, and Communications
- Video Game Design
- Digital Media

#### Level 2

- Graphic Design and Illustration I/Lab
- Animation I/Lab
- Video Game Programming
- Commercial Photography I/Lab
- Fashion Design I
- Digital Design and Media Productions
- Game Programming and Design

#### Level 3

- Graphic Design and Illustration II/Lab
- Animation II/Lab
- Advanced Video Game Programming
- Commercial Photography II/Lab
- Fashion Design II
- Digital Arts and Animation

#### Level 4

- Practicum in Graphic Design and Illustration
- Practicum in Animation
- Practicum in Commercial Photography
- Practicum in Entrepreneurship

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Join a website development or coding club</li><li>• Participate in SkillsUSA or TSA</li></ul>	<ul style="list-style-type: none"><li>• Intern with a multimedia or animation studio</li><li>• Obtain a certificate or certification in graphic design</li></ul>

### GPISD Industry-Based Certifications

- Adobe Certified Professional in Digital Video Using Adobe Premiere Pro
- Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator
- Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign
- Adobe Certified Professional in Visual Design
- Adobe Certified Professional in Visual Design Using Adobe Photoshop
- Adobe Certified Professional In Visual Effects and Motion Graphics Using Adobe After Effects

### Postsecondary Opportunities

#### Associates Degrees

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

#### Bachelor's Degrees

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

#### Master's, Doctoral, and Professional Degrees

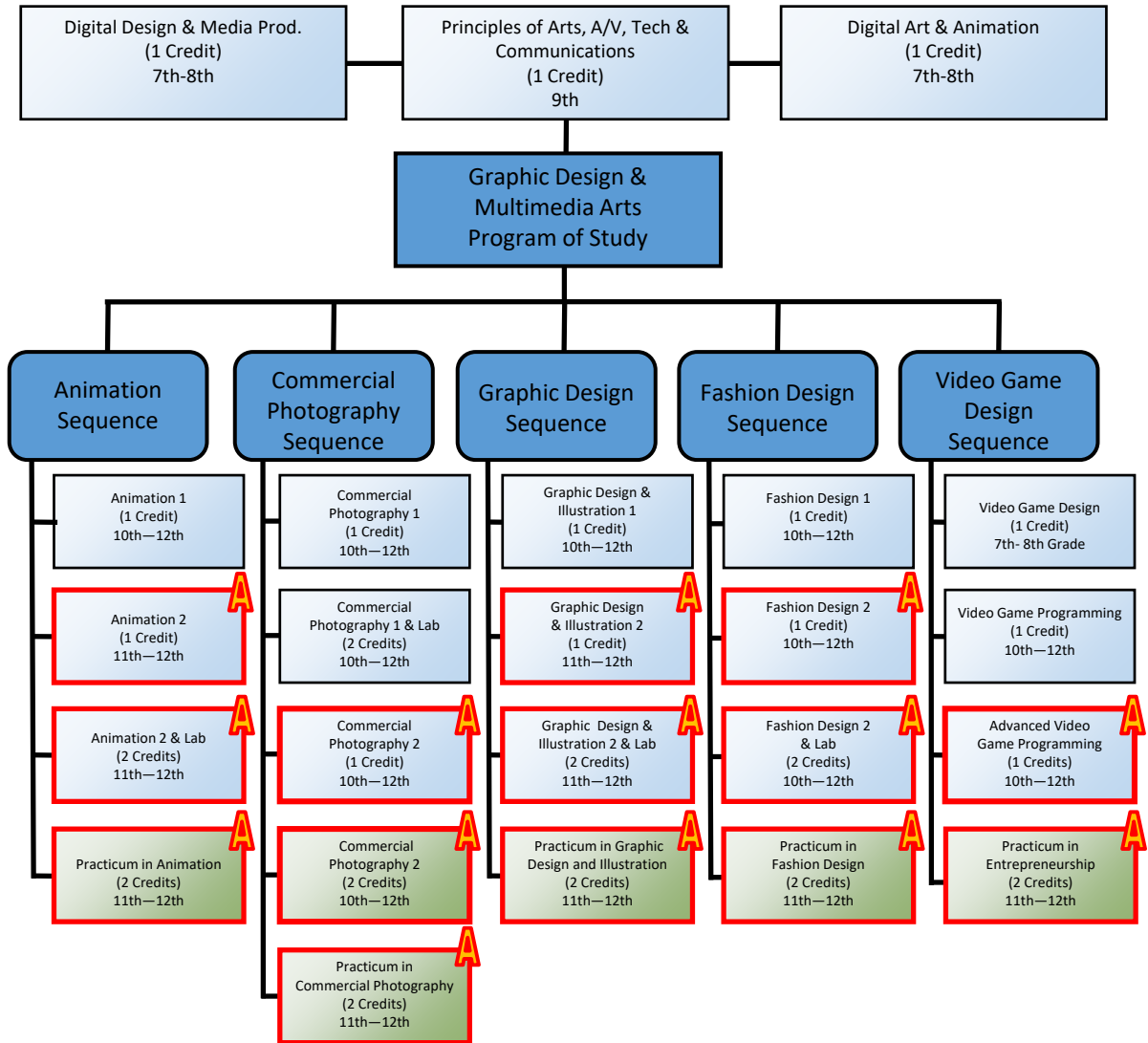
- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Intermedia/Multimedia

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Graphic Designers	\$44,824	1,433	15%
Multimedia Artists and Animators	\$67,392	186	21%

# Arts, Audio/Video Technology, & Communications Cluster

## *Business and Industry Endorsement*



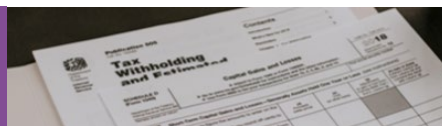
Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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.

## Accounting and Financial Services Statewide Program of Study



The Accounting and Financial Services program of study teaches CTE learners how to examine, analyze, and interpret financial records. Through this program of study, students will learn the skills necessary to perform financial services, prepare financial statements, interpret accounting records, give advice, or audit and evaluate statements prepared by others. This program of study will also introduce students to mathematical modeling tools.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Business, Marketing, and Finance
- Money Matters
- Business Information Management I/Lab

#### Level 2

- Accounting I
- Financial Mathematics

#### Level 3

- Accounting II

#### Level 4

- Practicum in Business Management
- Practicum in Entrepreneurship
- Career Preparation I

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Participate in Business Professionals of America, Future Business Leaders of America, or DECA</li></ul>	<ul style="list-style-type: none"><li>• Intern with a local accounting firm</li><li>• Earn Microsoft Office certifications</li></ul>

### GPISD Industry-Based Certifications

- Accounting- Basic
- Microsoft Office Specialist: Microsoft Access Expert (Access and Access 2019)
- Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)

### Postsecondary Opportunities

#### Associates Degrees

- Real Estate
- Financial, General
- Financial Planning and Services
- Certified Income Specialist

#### Bachelor's Degrees

- Accounting
- Financial, General
- Financial Planning and Services
- Certified Income Specialist

#### Master's, Doctoral, and Professional Degrees

- Financial Accounting
- Business Administration
- Financial Planning

- Microsoft Office Specialist-Excel\*

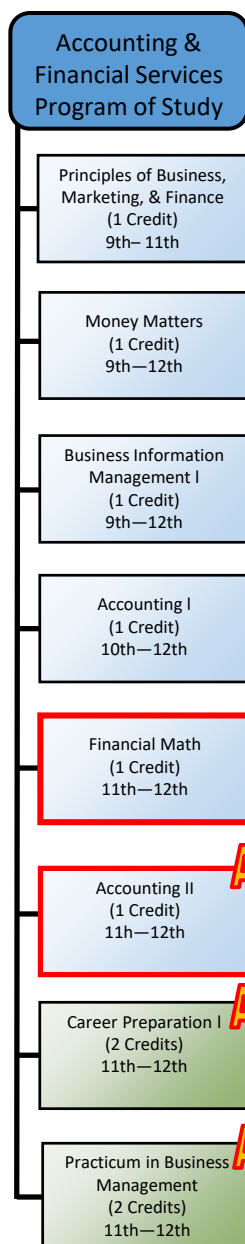
\*IBC sunsetting 8/31/24

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Accountants and Auditors	\$71,469	14,436	22%
Loan Officers	\$68,598	2,419	19%
Personal Financial Advisors	\$86,965	1,861	52%
Administrative service Managers	\$96,138	2,277	21%
Insurance Underwriters	\$66,206	594	14%

## Business, Marketing, & Finance Cluster

### *Business and Industry Endorsement*



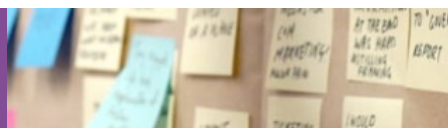
Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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.

## Business Management Statewide Program of Study



The Business Management program of study teaches CTE learners how to plan, direct, and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use of materials and human resources. This program of study will also introduce students to mathematical modeling tools and organizational evaluation methods.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Business, Marketing, and Finance
- Business Information Management I

#### Level 2

- Business Information Management II
- Virtual Business

#### Level 3

- Global Business

#### Level 4

- Practicum in Business Management
- Practicum in Entrepreneurship
- Career Preparation I

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Participate in Business Professional of America, Future Business Leaders of America, or DECA</li></ul>	<ul style="list-style-type: none"><li>• Intern with a local business or chamber of commerce</li></ul>

### GPISD Industry-Based Certifications

- Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)
- Microsoft Office Specialist: Microsoft Word Expert (Word and Word 2019)

- Microsoft Office Specialist-Excel\*
- Microsoft Office Specialist-Word\*

\*IBC sunseting 8/31/24

### Postsecondary Opportunities

#### Associates Degrees

- Business Administration
- Business/Commerce
- Public Administration
- Business Management

#### Bachelor's Degrees

- Business Administration
- Business/Commerce
- Public Administration
- Management Science

#### Master's, Doctoral, and Professional Degrees

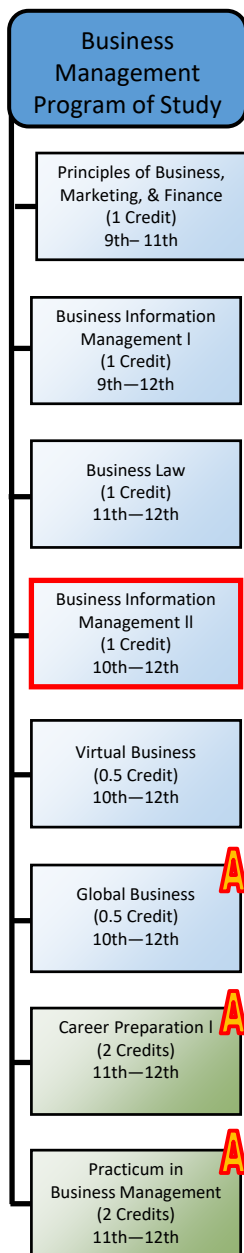
- Business Administration
- Business Management
- Public Administration
- Management Science

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Administrative Service Managers	\$96,138	2,277	21%
Management Analysts	\$87,651	4,706	32%
General and Operations Managers	\$107,640	18,679	20%
Supervisors of Administrative Support Works	\$57,616	14,982	20%

## Business, Marketing, & Finance Cluster

### *Business and Industry Endorsement*



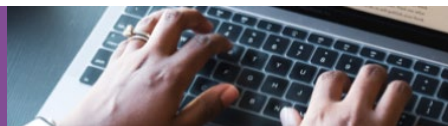
Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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.

## Entrepreneurship Statewide Program of Study



The Entrepreneurship program of study teaches CTE learners how to plan, direct, and coordinate the management and operations of public or private sector organizations. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, analyze management structures, and plan for the use of materials and human resources.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Business, Marketing, and Finance
- Business Information Management I

#### Level 2

- Entrepreneurship

#### Level 4

- Practicum in Business Management
- Practicum in Marketing
- Practicum in Entrepreneurship

### Postsecondary Opportunities

#### Associates Degrees

- Business Administration and Management
- Business/Commerce
- Public Administration
- Business Management

#### Bachelor's Degrees

- Business Administration and Management
- Business/Commerce
- Public Administration
- Management Science

#### Master's, Doctoral, and Professional Degrees

- Business Administration and Management
- Business/Commerce
- Public Administration
- Management Science

### Work-Based Learning and Expanded-Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Participate in Business Professionals of America, Future Leaders of America, or DECA</li></ul>	<ul style="list-style-type: none"><li>• Intern with a local management consulting firm</li></ul>

### GPISD Industry-Based Certifications

- Entrepreneurship and Small Business



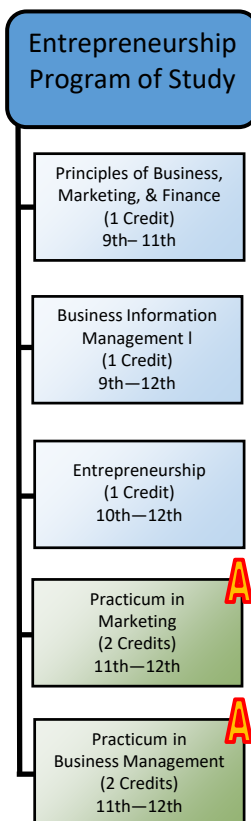
### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
General and Operations Managers	\$107,640	18,679	20%
Management Analysts	\$87,651	4,706	32%
Managers, All Others	\$113,110	1,794	26%



## Business, Marketing, & Finance Cluster

### *Business and Industry Endorsement*



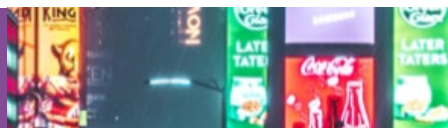
Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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.

## Marketing & Sales Statewide Program of Study



The Marketing and Sales program of study teaches CTE learners how to collect information to determine potential sales of a product or service and/or create a marketing campaign to market or distribute goods and services. Through this program of study, students will learn the skills necessary to understand and apply data on customer demographics, preferences, needs, and buying habits.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Business, Marketing, and Finance

#### Level 2

- Sports and Entertainment Marketing
- Virtual Business

#### Level 3

- Social Media Marketing
- Advertising

#### Level 4

- Practicum in Marketing
- Practicum in Entrepreneurship
- Career Preparation I

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>Participate in Business Professionals of America, Future Business Leaders of America, or DECA</li></ul>	<ul style="list-style-type: none"><li>Intern with a local marketing firm</li><li>Shadow a real estate agent</li><li>Operate a school store on campus</li></ul>

### GPISD Industry-Based Certifications

- Student Social Media Marketing Certification

### Postsecondary Opportunities

#### Associates Degrees

- Marketing/ Marketing Management, General
- Consumer Merchandising/ Retailing Management
- International Marketing
- Business

#### Bachelor's Degrees

- Marketing/ Marketing Management, General
- Business Administration
- Applied Economics
- Marketing Research

#### Master's, Doctoral, and Professional Degrees

- Marketing
- Business Administration
- Applied Economics
- Advertising



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Marketing Research Analysts and Marketing Specialists	\$70,346	4,664	40%
Insurance Sales Agent	\$43,181	5,886	30%
First-Line Supervisors of Retail Sales Workers	\$72,550	2,826	15%
Wholesale and Retail Buyers	\$51,106	1,229	19%

## Business, Marketing, & Finance Cluster

### *Business and Industry Endorsement*

#### Marketing & Sales Program of Study

Principles of Business,  
Marketing, & Finance  
(1 Credit)  
9th–11th

Sports & Entertainment  
Marketing  
(0.5 Credit)  
9th—12th

Virtual Business  
(0.5 Credit)  
10th—12th

Social Media  
Marketing  
(0.5 Credit)  
9th—12th

Advertising  
(0.5 Credit)  
10th—12th

Practicum in  
Marketing  
(2 Credits)  
11th—12th

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Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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.

## Teaching and Training Statewide Program of Study



The Teaching and Training program of study prepares CTE learners for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE learners to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Education and Training
- Principles of Human Service

#### Level 2

- Human Growth and Development

#### Level 3

- Instructional Practices

#### Level 4

- Practicum in Education and Training

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Participate in the Texas Association of Future Educators or Family, Career, and Community Leaders of America</li></ul>	<ul style="list-style-type: none"><li>• Teach a community education class</li><li>• Intern as a teaching assistant or tutor</li><li>• Serve as a camp counselor</li></ul>

### GPISD Industry-Based Certifications

- Educational Aide I



### Postsecondary Opportunities

#### Associates Degrees

- Teacher Education
- Education, General (or specific subject area)
- Special Education
- Health and Physical Education/Fitness

#### Bachelor's Degrees

- Bilingual and Multilingual Education
- Education, General (or specific subject area)
- Special Education
- Health and Physical Education/Fitness

#### Master's, Doctoral, and Professional Degrees

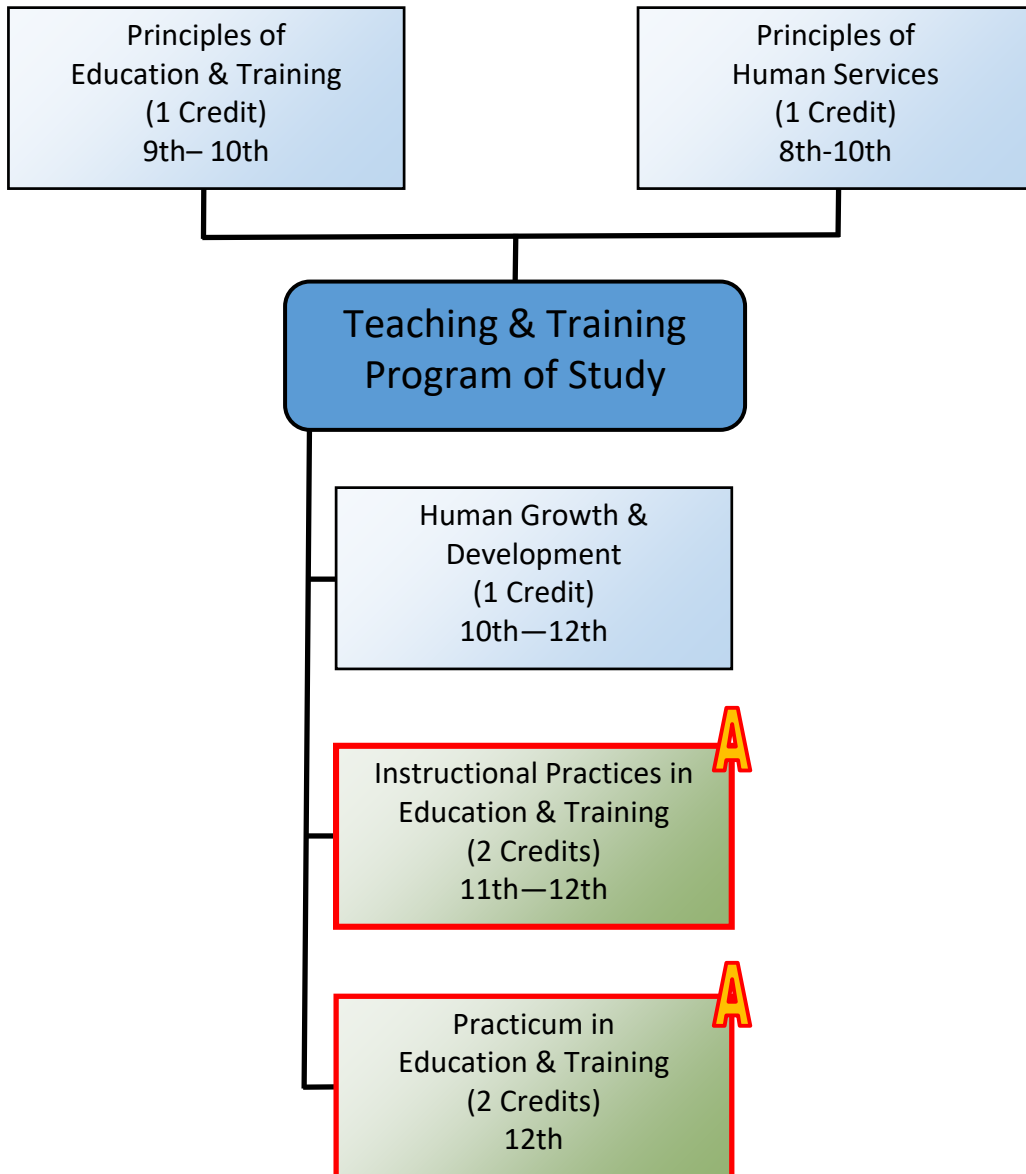
- Instruction and Learning
- Educational Leadership and Administration, General
- Special Education
- Social and Philosophical Foundations of Education

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Adult Basic and Secondary Education and Literacy Teachers and Instructors	\$48,069	862	17%
Middle School Teachers, Except Special and Career/Technical Education	\$54,510	6,407	15%
Career and Technical Education Teachers, Secondary School	\$56,360	719	9%
Special Education Teachers, Secondary School	\$56,720	980	18%

## Education & Training Cluster

### *Public Service Endorsement*



Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

## Healthcare Therapeutic Statewide Program of Study



The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as 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/Health Science Clinical
- Medical Microbiology

#### Level 4

- Practicum in Health Science
  - Dental Assisting
  - Pharmacy Technician
  - Medical Assisting
  - Patent Care Tech
  - Medical Co-op

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Participate in SkillsUSA or Health Occupation Students of America

#### Work-Based Learning Activities

- Volunteer at a community wellness center, hospital, assisted living, or nursing home

### GPISD Industry-Based Certifications

- Certified Clinical Medical Assistant
- Certified Dental Assistant
- Certified EKG Technician
- Certified Patient Care Technician (CPCT)
- Pharmacy Technician

### Postsecondary Opportunities

#### Associates Degrees

- Dental Hygienist
- Medical/Clinical Assistant

#### Bachelor's Degrees

- Dental Hygienist

#### Master's, Doctoral, and Professional Degrees

- Dentist
- Physician Assistant
- Family and General Practitioners
- Pharmacist



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Medical Assistants	\$29,598	8,862	30%
Surgical Technologists	\$45,032	1,150	20%
Dental Hygienists	\$73,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%

Successful completion of the Healthcare Therapeutic program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

**Health Science Cluster**  
*Public Service Endorsement*  
*Also Satisfies STEM Endorsement*

**Healthcare Therapeutic  
Program of Study**

Principles of Health  
Science  
(1 Credit)  
9th–10th

Medical Terminology  
(1 Credit)  
10th–12th

Health Science Theory  
(1 Credit)  
11th–12th

Medical Microbiology  
(1 Science Credit)  
10th–12th

Anatomy & Physiology  
(1 Science Credit)  
11th–12th

Practicum of Health  
Science  
(2 Science Credit)  
12th

**Athletic Trainer  
Sequence**

Athletic Trainer 1  
(1 Credit)  
9th–10th

Athletic Trainer 2  
(2 Credits)  
10th–12th

Athletic Trainer 3  
(2 Credits)  
11th–12th

Athletic Trainer 4  
(2 Credits)  
12th

Dental Assisting

Pharmacy  
Technician

Medical  
Cooperative

Medical  
Assisting

Patient Care  
Technician

Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)



# Hospitality and Tourism Career Cluster

The Hospitality and Tourism Career Cluster focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.

## Culinary Arts Statewide Program of Study



The Culinary Arts program of study introduces CTE learners to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.

### Secondary Courses for High School Credit

#### Level 1

- Introduction to Culinary Arts

#### Level 2

- Culinary Arts

#### Level 3

- Advanced Culinary Arts

#### Level 4

- Practicum in Culinary Arts
- Practicum in Entrepreneurship

### Postsecondary Opportunities

#### Associates Degrees

- Hotel and Restaurant Management
- Restaurant Culinary and Catering Management
- Hospitality Administration/ Management, General
- Culinary Arts/ Chef Training

#### Bachelor's Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Culinary Science and Food Service Management

#### Master's, Doctoral, and Professional Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Business Administration Management, General

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Participate in Family, Career, and Community Leaders of America, SkillsUSA, American Culinary Federation, or the Texas Restaurant Association

#### Work-Based Learning Activities

- Plan a catering event or work for a catering company
- Participate in a cooking course
- Work in a restaurant

### GPISD Industry-Based Certifications

- ServSafe Manager



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Food and Beverage Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicians	\$34,382	236	11%



## Hospitality & Tourism Cluster

### *Business and Industry Endorsement*

#### Culinary Arts Program of Study

Introduction to Culinary Arts  
(1 Credit)  
9th—10th

Culinary Arts  
(2 Credits)  
10th—12th

Advanced Culinary Arts  
(2 Credits)  
11th—12th

Practicum in Culinary Arts  
(2 Credits)  
12th

Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# Human Services Career Cluster

The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

## Health and Wellness Statewide Program of Study



The Health and Wellness program of study introduces students to knowledge and skills related to promoting physical, emotional, social, and mental health and wellness. Students who choose this program of study may learn how to assist patients in planning for their health and wellness, respond to crises, and advise, provide education or counseling, or make referrals. CTE learners may also focus on addressing barriers to access health and wellness services.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Human Services

#### Level 2

- Lifetime Nutrition and Wellness
- Human Growth and Development
- Interpersonal Studies

#### Level 3

- Applied Nutrition and Dietetics

#### Level 4

- Practicum in Human Services
- Practicum in Entrepreneurship

### Postsecondary Opportunities

#### Associates Degrees

- Nutrition Sciences
- Community Health Services/Liaison/Counseling
- Health and Wellness, General
- Public Health

#### Bachelor's Degrees

- Nutrition Sciences
- Mental Health Counseling/Counselor
- Nutrition
- Human Nutrition and Foods

#### Master's, Doctoral, and Professional Degrees

- Nutrition Sciences
- Community Health and Preventative Medicine
- Nutrition
- Exercise and Sports Nutrition

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>Participate in American Association of Family and Consumer Sciences or the Family Career and Community Leaders of America</li> </ul>	<ul style="list-style-type: none"> <li>Job shadow a dietitian or nutritionist</li> <li>Work part-time at a counseling services center, health department or hospital</li> </ul>

### GPISD Industry-Based Certifications

- Community Health Workers



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Community Health Workers	\$38,064	592	25%
Rehabilitation Counselors	\$43,930	586	23%
Mental Health Counselors	\$41,558	812	38%
Health Care Social Workers	\$55,515	1,583	35%

# Human Services Cluster

*Public Services Endorsement*

## Health & Wellness Program of Study

Principles of  
Human Services  
(1 Credit)  
9th—12th

Interpersonal Studies  
(0.5 Credit)  
10th—12th

Lifetime Nutrition  
& Wellness  
(0.5 Credit)  
10th—12th

Human Growth &  
Development  
(1 Credit)  
10th—12th

Applied Nutrition &  
Dietetics  
(1 Credit)  
10th—12th

Practicum in  
Human Services  
(2 Credits)  
11th-12th

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# Information Technology Career Cluster

The Information Technology (IT) Career Cluster focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

## Networking Systems Statewide Program of Study



The Networking Systems program of study explores the occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study may also include exploration into analyzing science, engineering, and other data processing problems to implement and improve computer systems.

### Secondary Courses for High School Credit

#### Level 1

- Computer Science I
- Principles of Information Technology

#### Level 2

- Computer Maintenance/Lab
- AP Computer Science Principles

#### Level 4

- Practicum in Information Technology
- Practicum in Entrepreneurship

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Join TSA</li><li>• Job shadow a computer network architect or support specialist</li></ul>	<ul style="list-style-type: none"><li>• Earn an IT certification</li></ul>

### GPISD Industry-Based Certifications

- TBD

### Postsecondary Opportunities

#### Associates Degrees

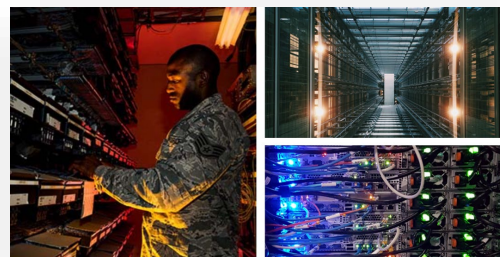
- Computer and Information Sciences, General
- Computer Systems Networking And Telecommunications
- Information Technology
- Network and System Administration/ Administrator

#### Bachelor's Degrees

- Computer and Information Sciences, General
- Computer Systems Networking And Telecommunications
- Computer and Information Systems Security/ Information Assurance
- Computer Engineering, General

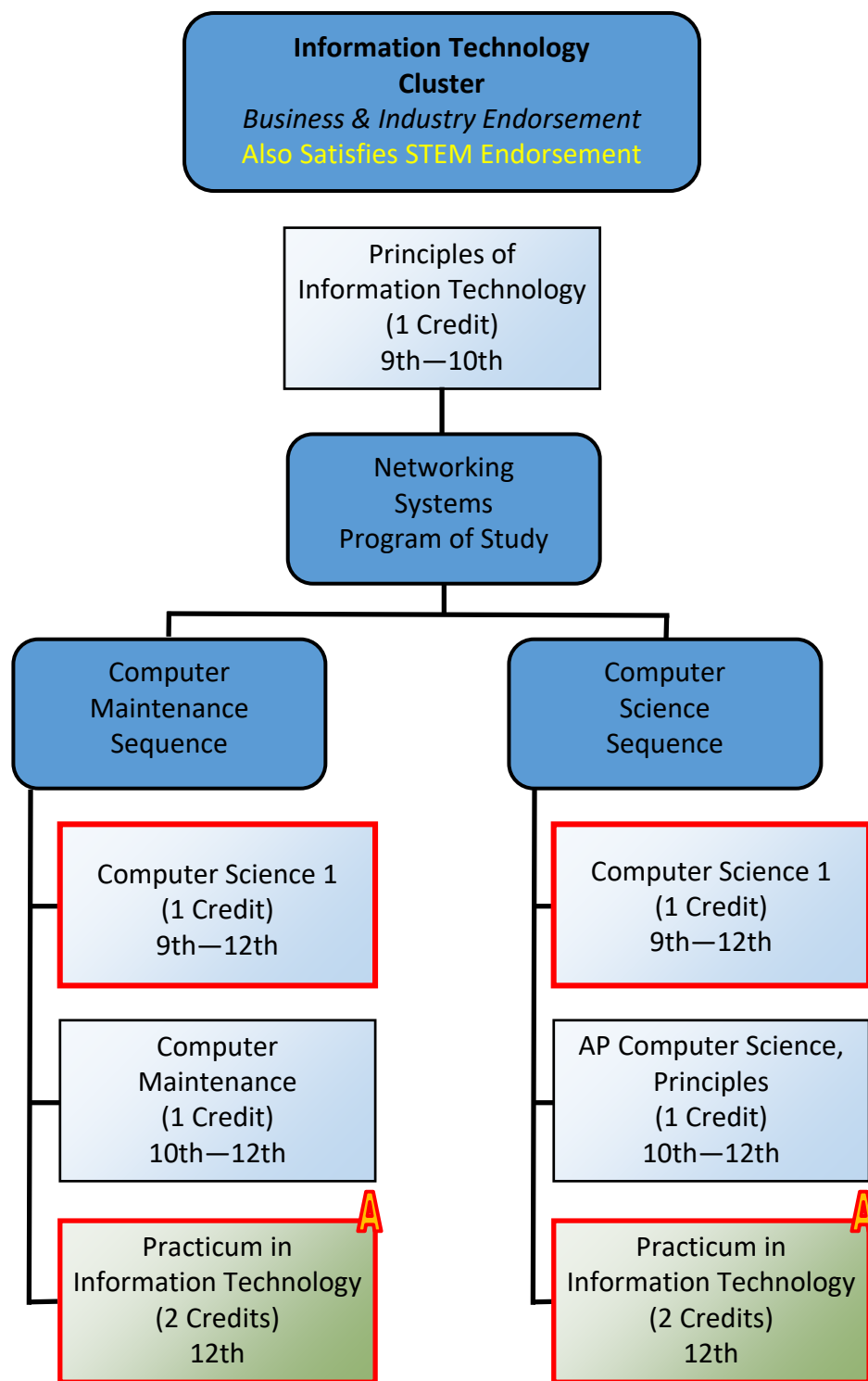
#### Master's, Doctoral, and Professional Degrees

- Computer and Information Sciences, General
- Information Technology
- Computer and Information Systems Security/ Information Assurance
- Computer Engineering, General



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Computer Network Architects	\$111,633	1,082	23%
Computer Systems Analysts	\$87,568	5,937	29%
Computer Network Support Specialists	\$68,037	1,824	19%



Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

## Law Enforcement Statewide Program of Study



The Law Enforcement program of study teaches CTE learners about the development of, adherence to, and protection of various branches of law. Students will learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Law, Public Safety, Corrections, and Security

#### Level 2

- Criminal Investigation
- Law Enforcement I

#### Level 3

- Correctional Services
- Forensic Psychology
- Law Enforcement II

#### Level 4

- Counseling and Mental Health
- Forensic Science
- Practicum in Law, Public Safety Corrections, and Security

### Postsecondary Opportunities

#### Associates Degrees

- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Criminal Justice/Police Science
- Corrections
- Criminalistics and Criminal Science

#### Bachelor's Degrees

- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Criminal Justice/Police Science
- Juvenile Corrections
- Cyber/Computer Forensics and Counterterrorism

#### Master's, Doctoral, and Professional Degrees

- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Natural Resources
- Law Enforcement and Protective Services

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Join the Texas Public Service Association or local criminal justice clubs

#### Work-Based Learning Activities

- Attend court hearings and other legal procedures

### GPISD Industry-Based Certifications

- Non-Commissioned Security Officer Level II
- IAED Emergency Telecommunicator



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Police and Sheriff's Patrol Officers	\$60,112	5,241	13%
Probation Officers and Correctional Treatment Officers	\$44,054	793	9%
Correctional Officers and Jailers	\$40,186	4,683	9%
Immigration and Customs Inspectors	\$78,104	1,236	9%
First-Line Supervisors of Police and Detectives	\$91,312	253	25%

**Law & Public Service Cluster**  
*Public Service Endorsement*

**Law Enforcement  
Program of Study**

Principles of Law, Public Safety,  
Corrections, & Security  
(1 Credit)  
9th—12th

Criminal Investigation  
(1 Credit)  
10th—12th

Law Enforcement 1  
(1 Credit)  
10th—12th

Law Enforcement 2  
(1 Credit)  
10th-12th

Correctional Services  
(1 Credit)  
10th—12th

Forensic Science  
(1 Credit)  
10th—12th

Practicum in Law,  
Public Safety,  
Corrections & Security  
(2 Credits)  
11th-12th

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Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)



# 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 manufacturing/process engineering.

## Advanced Manufacturing and Machinery Mechanics Statewide Program of Study



The Advanced Manufacturing and Machinery Mechanics program of study focuses on the assembly, operation, maintenance, and repair of electromechanical equipment or devices. CTE learners may work in a variety of mechanical fields, gaining knowledge and experience in robotics, refinery and pipeline systems, deep ocean exploration, or hazardous waste removal. CTE concentrators may work in a variety of fields of engineering.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Manufacturing
- Principles of Applied Engineering

#### Level 2

- Robotics I

#### Level 3

- Engineering Design and Presentation I
- Robotics II

#### Level 4

- Practicum of Robotics
- Practicum in Entrepreneurship

### Postsecondary Opportunities

#### Associates Degrees

- Electromechanical Engineering/Technology
- Certified Quality Technician
- Industrial Mechanics and Maintenance Technology

#### Bachelor's Degrees

- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering

#### Master's, Doctoral, and Professional Degrees

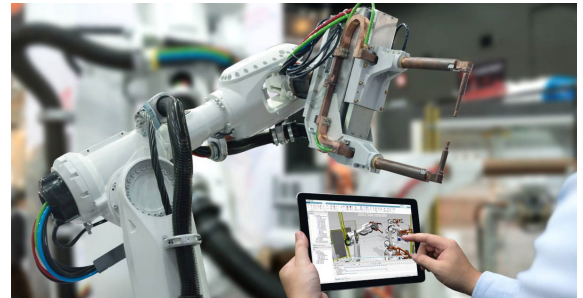
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Participate in SkillsUSA and local STEM events</li></ul>	<ul style="list-style-type: none"><li>• Work at a local business or industry apprenticeship</li><li>• Join the American Welding Society</li></ul>

### GPISD Industry-Based Certifications

- TBD



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Electro-Mechanical Assemblers	\$30,160	951	9%
Electro-Mechanical Technicians	\$56,555	127	9%
Industrial Machinery Mechanics	\$49,816	3,788	27%

Successful completion of the Advanced Manufacturing and Machinery Mechanics program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met.  
Revised – August 2022



**Manufacturing  
Cluster**  
*Business & Industry  
Endorsement*

Advanced  
Manufacturing &  
Machinery Mechanics (Robotics)  
Program of Study  
*Also Satisfies STEM Endorsement*

Principles of Manufacturing  
(1 Credit)  
7th-8th

Principles of Applied  
Engineering  
(1 Credit)  
9th-12th

Robotics 1  
(1 Credit)  
9th—10th

Robotics 2  
(1 Credit)  
10th—12th

Engineering Design &  
Presentation 1  
(1 Credit)  
10th—12th

Practicum in Robotics  
(2 Credits)  
11th-12th

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# 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 manufacturing/process engineering.

## Welding Statewide Program of Study



The Welding program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.

### Secondary Courses for High School Credit

#### Level 1

- Introduction to Welding

#### Level 2

- Welding I

#### Level 3

- Welding II/Lab

#### Level 4

- Practicum in Manufacturing
- Practicum in Entrepreneurship

### Postsecondary Opportunities

#### Associates Degrees

- Certified Welder or Welder Inspector
- Machine Shop Technology/Assistant
- Operations Management and Supervision
- Occupational Safety and Health Technology/Technician

#### Bachelor's Degrees

- Welding Engineering Technology/Technician
- Biomedical Technology/Technician
- Operations Management and Supervision
- Environmental Health

#### Master's, Doctoral, and Professional Degrees

- Welding Engineering Technology/Technician
- Occupational Health and Industrial Hygiene
- Operations Management and Supervision
- Environmental Health

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Participate and compete in SkillsUSA</li><li>• Job shadow a machinist</li></ul>	<ul style="list-style-type: none"><li>• Work in a local business or industry apprenticeship</li><li>• Join the American Welding Society</li></ul>

### GPISD Industry-Based Certifications

- AWS D1.1 Structural Steel
- AWS D9.1 Sheet Metal Welding
- NCCER Core
- NCCER Welding Level I

- OSHA 30 Hour General\*  
\*IBC sunseting 8/31/24

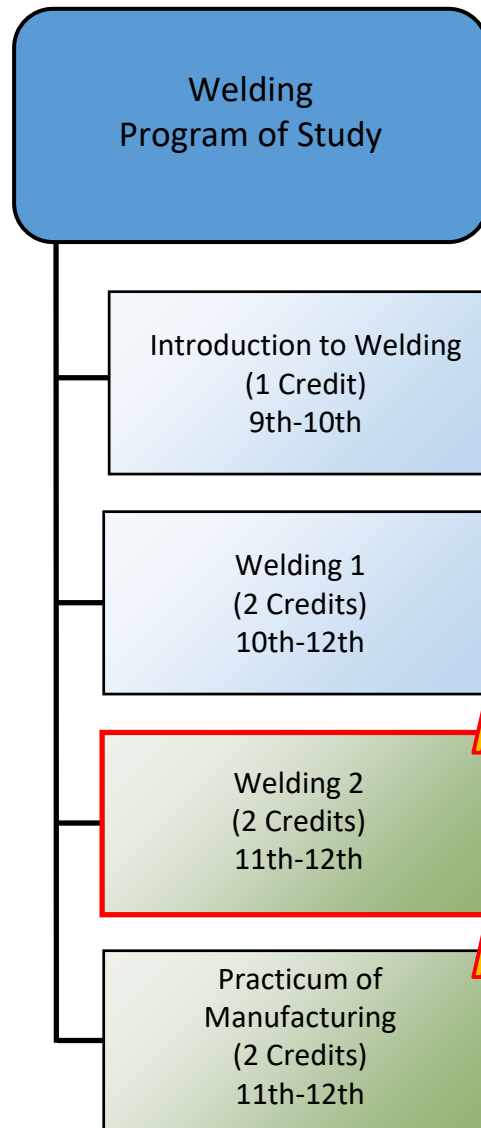


### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Welders, Cutters, Solderers, and Brazers	\$41,350	6,171	9%
Welding Soldering and Brazing Machine Setters, Operators and Tenders	\$40,040	280	9%

Successful completion of the Welding program of study will fulfill requirements of the Business and Industry endorsement. Revised – August 2022

**Manufacturing  
Cluster**  
*Business & Industry Endorsement*



Students may earn the Business & Industry or Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# Science, Technology, Engineering, and Mathematics Career Cluster

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

## Engineering Statewide Program of Study



The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. CTE learners will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Applied Engineering

#### Level 2

- Introduction to Aerospace

#### Level 3

- Engineering Design and Presentation I

#### Level 4

- Engineering Design and Presentation II
- Aerospace 1
- Aerospace 2
- Practicum in STEM

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>Participate in Skills USA competitions</li></ul>	<ul style="list-style-type: none"><li>Intern at an engineering firm</li><li>Shadow a machinist</li></ul>

### GPISD Industry-Based Certifications

- TBD

### Postsecondary Opportunities

#### Associates Degrees

- Electrical and Electronics Engineering
- Drafting and Design Technology/ Technician, General
- Engineering Technology

#### Bachelor's Degrees

- Electrical and Electronics Engineering
- CAD/CADD Drafting and/or Design Technology/ Technician
- Bioengineering and Biomedical Engineering
- Construction Engineering Technology/ Technician

#### Master's, Doctoral, and Professional Degrees

- Electrical and Electronics Engineering
- Mechanical Engineering
- Bioengineering and Biomedical Engineering



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Aerospace Engineers	\$110,843	481	9%
Industrial Engineers	\$97,074	1,263	10%
Mechanical Engineers	\$91,107	1,535	11%
Chemical Engineers	\$112,819	474	9%
Electrical Engineers	\$98,405	1,137	105

Successful completion of the Engineering program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised – August 2022

# Science, Technology, Engineering, & Mathematics Cluster

*STEM Endorsement*  
*Also Satisfies B&I Endorsement*

## Engineering Program of Study

Principles of Applied Engineering  
(1 Credit)  
9th-10th

### Engineering Sequence

Engineering Design & Presentation 1  
(1 Credit)  
10th-12th

Engineering Design & Presentation 2  
(2 Credits)  
11th-12th

Practicum in STEM  
(2 Credits)  
11th-12th

### Aerospace Sequence

Introduction to Aerospace  
(1 Credit)  
10th

Aerospace 1  
(1 Credit)  
11th-12th

Aerospace 2  
(1 Credit)  
12th

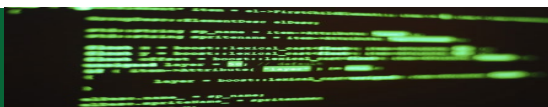
Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# Science, Technology, Engineering, and Mathematics Career Cluster

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

## Programming and Software Development Statewide Program of Study



The Programming and Software Development program of study explores the occupations and education opportunities associated with researching, designing, developing, and testing operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This program of study may also include exploration into creating, modifying, and testing the codes, forms, and script that allow computer applications to run.

### Secondary Courses for High School Credit

#### Level 2

- AP Computer Science Principles
- Computer Science I
- Game Programming and Design

#### Level 4

- Practicum in STEM
- Practicum in Entrepreneurship

### Postsecondary Opportunities

#### Associates Degrees

- Computer Programming/Programmer General
- Computer Software Engineer
- Computer Science
- Certified Software Analyst

#### Bachelor's Degrees

- Management Information Systems, General
- Computer Software Engineer
- Computer Science
- Information Science/ Studies

#### Master's, Doctoral, and Professional Degrees

- Computer Software Engineer
- Computer Science
- Information Science/ Studies

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>• Join TSA</li><li>• Participate in a coding club at school</li></ul>	<ul style="list-style-type: none"><li>• Obtain a programming IBC</li></ul>

### GPISD Industry-Based Certifications

- TBD



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Software Developer, Systems Software	\$103,334	2,985	25%
Software Developers, Application	\$104,499	6,311	30%
Computer Programmers	\$79,893	1,454	9%

## Science, Technology, Engineering, & Mathematics Cluster

*STEM Endorsement*

*Also Satisfies B&I Endorsement*

### Programming & Software Development Program of Study

Computer Science 1  
(1 Credit)  
9th—12th

AP Computer Science, Principles  
(1 Credit)  
10th—12th

Game Programming and Design  
(1 Credit)  
10th—12th

Practicum in  
Information Technology  
(2 Credits)  
11th-12th

**A**

Practicum of STEM  
(2 Credits)  
11th-12th

**A**

Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)



# Transportation, Distribution, and Logistics Career Cluster

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.

## Automotive Statewide Program of Study



The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.

### Secondary Courses for High School Credit

#### Level 2

- Automotive Basics

#### Level 3

- Automotive Technology I

#### Level 4

- Automotive Technology II
- Practicum in Transportation Systems
- Practicum in Entrepreneurship

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>Join SkillsUSA or the Automotive Service Association</li></ul>	<ul style="list-style-type: none"><li>Work at a local automotive repair or body shop</li></ul>

### GPISD Industry-Based Certifications

- ASE Refrigerant Recovery and Recycling

### Postsecondary Opportunities

#### Associates Degrees

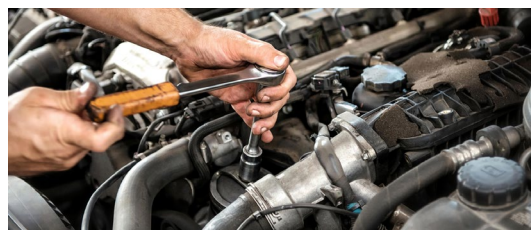
- Autobody/ Collision and Repair Technology/ Technician
- Medium/Heavy Vehicle and Truck Technology/ Technician
- Mechanical Engineering/ Mechanical Technology/ Technician

#### Bachelor's Degrees

- Mechanical Engineering/ Mechanical Technology/ Technician

#### Master's, Doctoral, and Professional Degrees

- Mechanical Engineering

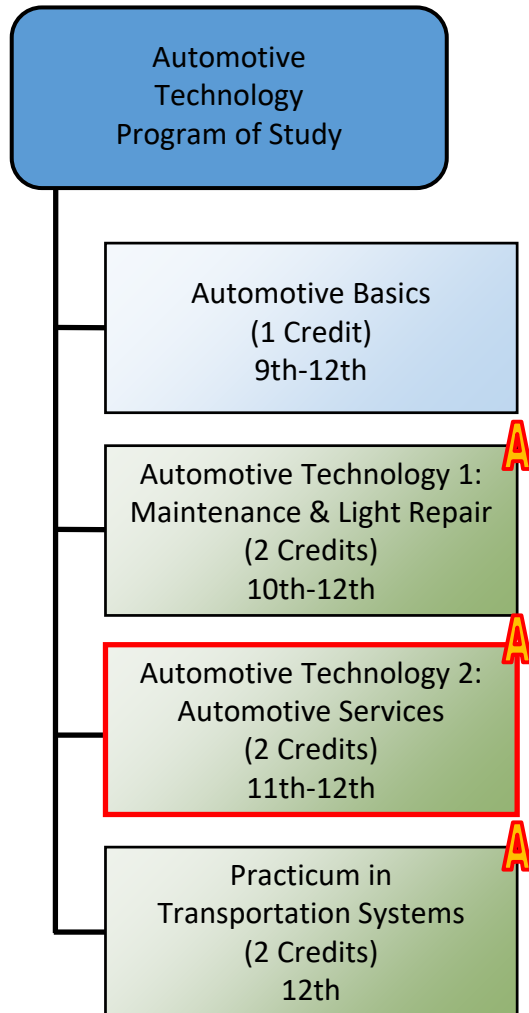


### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Automotive Body and Related Repairers	\$40,144	1,456	25%
48 Automotive Service Technician and Mechanics	\$38,459	5,557	18%



**Transportation, Distribution, &  
Logistics Cluster**  
*Business & Industry Endorsement*



Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# Transportation, Distribution, and Logistics Career Cluster

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.

## Drone (Unmanned Flight) Regional Program of Study



The Drone-Unmanned Flight regional program of study introduces CTE learners to the occupations and education opportunities related to operating or designing an unmanned aircraft using a ground-based controller and the systems of communications between the controller and the aircraft.

### Secondary Courses for High School Credit

#### Level 2

- Robotics I

#### Level 3

- Robotics II

#### Level 4

- Practicum of Robotics
- Scientific Research and Design

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>Participate in SkillsUSA</li><li>Explore virtual aviation websites</li></ul>	<ul style="list-style-type: none"><li>Work part-time at an aviation services agency, drone company, or airline company</li></ul>

### GPISD Industry-Based Certifications

- FAA Part 107 Remote Drone Pilot

### Postsecondary Opportunities

#### Associates Degrees

- Airline Pilots, Copilots, and Flight Engineers



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Aerospace Engineering and Operations Technicians	\$60,757	114	9%
Avionics Technicians	\$59,114	170	9%
Airline Pilots, Copilots, and Flight Engineers	\$165,130	1,150	9%
Commercial Pilots	\$86,310	548	9%

Successful completion of the Drone (Unmanned Flight) regional program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised – August 2022

## Transportation, Distribution, & Logistics Cluster

*Business & Industry Endorsement*

Drone ( Unmanned Flight)  
Program of Study  
Also Satisfies STEM Endorsement

Robotics 1  
(1 Credit)  
9th—10th

Robotics 2  
(1 Credit)  
10th—12th

Practicum in Robotics  
(2 Credits)  
11th-12th

A

A

Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# Transportation, Distribution, and Logistics Career Cluster

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.

## Maritime Regional Program of Study



The Maritime regional program of study introduces CTE learners to the occupations and education opportunities related to operating water vessels, maintenance procedures, maritime navigational aids, maritime traffic controls, and communications equipment to ensure conformance with federal safety regulations.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Maritime Science

#### Level 2

- Maritime Science I
- Introduction to Shipboard Engineering

#### Level 3

- Maritime Science II
- Advanced Shipboard Engineering

#### Level 4

- Practicum in Transportation Systems

### Postsecondary Opportunities

#### Associates Degrees

- Captains, Mates, and Pilots

#### Bachelor's Degrees

- Marine Transportation
- Transportation, Storage, and Distribution Management

#### Master's, Doctoral, and Professional Degrees

- Maritime Resources Management
- Maritime Administration and Logistics

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>Participate in SkillsUSA</li></ul>	<ul style="list-style-type: none"><li>Participate in a maritime apprenticeship or internship</li><li>Work part-time at a shipping company</li></ul>

### Industry-Based Certifications

- TBD



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Sailors and Marine Oilers	\$41,018	387	9%
Captains, Mates, and Pilots of Water Vessels	\$117,686	413	16%
Motorboat Operators	\$44,970	22	16%
Ship Engineers	\$76,752	87	15%

**Transportation, Distribution, &  
Logistics Cluster**  
*Business & Industry Endorsement*

**Maritime  
Program of Study**

Principles of Maritime  
(1 Credit)  
9th-12th

Maritime Science 1  
(1 Credit)  
9th-12th

Introduction to  
Shipboard Engineering  
(1 Credit)  
10th-12th

Maritime Science 2  
(1 Credit)  
10th-12th

Practicum in Distribution  
& Logistics  
(2 Credits)  
11th-12th

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management I (1 credit)
- Professional Communication (0.5 credit)

# TECHNICAL DUAL CREDIT PROGRAMS

ELECTRICAL TECHNICIAN

DIESEL TRUCK TECHNICIAN

HVAC TECHNICIAN

WELDING OPERATOR

COSMETOLOGY OPERATOR

MEDICAL ASSISTANT

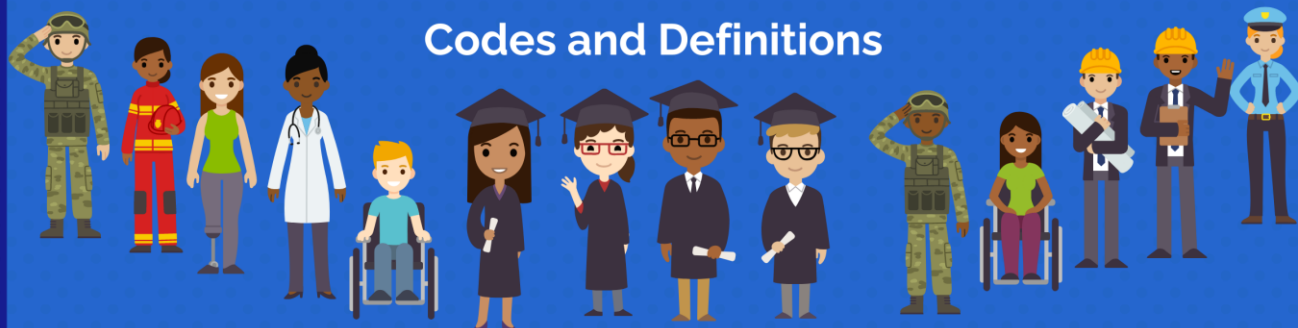
PHARMACY TECHNICIAN

EMT

PIPEFITTING

# Texas CTE Indicator Autocoding

## Codes and Definitions



Not CTE

**Code 4 (Not CTE):** A student who never enrolled or who did not complete any high-school CTE course as defined by 19 TAC Chapter 126 (C), 127 (B) or 130.



CTE Participants

**Code 5 (CTE Participant):** A student completing EITHER: Only one CTE course for any number of credits; OR More than one course for less than two credits where a CTE course is defined by 19 TAC 126 (C), Chapter 127 (B) or 130 (the student does not have to pass or receive credit).



CTE Explorers

**Code E (CTE Explorer):** 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).



CTE Explorers\*

**\*Code E (CTE Explorer):** A student completing enough program of study courses in a regional program of study to be coded a 6 or 7, but completes the school year in a district and geographic region where the regional program is not approved. The code 6 or 7 is changed to a code E.



CTE Concentrators

**Code 6 (CTE Concentrator):** A student completing and passing 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.



CTE Completers

**Code 7 (CTE Completer):** 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.

\*Regional programs of study are approved in ESC geographic regions where there is specialized regional labor market demand for specific occupations. Students concentrating (code 6) and/or completing (code 7) a program of study outside of approved geographic ESC regions are assigned a code E (Explorer).

# CTE Master Contact List

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<b>CMS</b>	Tynecia	Daniel	tdaniel@galenaparkisd.com	CCR	B206	4470
<b>CMS</b>	Staci	Hubbard	shubbard@galenaparkisd.com	CCR Resource	D237	4470
<b>CMS</b>	Adriana	Jackson	ajackson@galenaparkisd.com	CCR Encounters	D230	4470
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