



STUDENT HANDBOOK

2022 - 2023

*Discover your potential,
graduate college, career, and/or
military ready!*

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LAST
UPDATED:

ROMA, TEXAS, 78584

AUGUST 24, 2022

Public Notification of Nondiscrimination in Career and Technical Education Programs

The Roma Independent School District offers Career and Technical Education programs in Agriculture, Foods & Natural Resources; Architecture & Construction; Arts, A/V Technology & Communications, Business Marketing & Finance; Education & Training; Energy; Hospitality & Tourism; Human Services; Information Technology; Law & Public Safety; Manufacturing; Science, Technology, Engineering & Mathematics (STEM); and Transportation, Distribution & Logistics.

It is the policy of Roma Independent School District not to discriminate on the basis of sex, handicap, race, color, and national origin in its educational and career and technical education programs, activities, or employment as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973.

The Roma Independent School District will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in all educational and career and technical education programs.

For information about your rights and grievance procedures, contact the Title IX Coordinator, Luis E. Garza, at 608 North Garcia St., Roma Texas (956) 849-1377, and/or the Section 504 Coordinator, Edgar Garza, at 608 North Garcia ST., Roma Texas (956) 849-1377.

El distrito escolar de Roma ofrece programas de carreras tecnico en Ciencia y Tecnología de Agricultura; Arquitectura y Construcción; Tecnología del Arte, Comunicaciones y Medios de Difusion; Dirección de Negocios y Finanzas; Educación y Instrucción; Energía; Ciencia de Hospitalidad y Turismo; Servicios Humanos; Tecnología de Información; Manufactureros; Ley y Seguridad Publica; Tecnología de Ciencia, Ingeniería y Matematicas (STEM); y Transporte, Distribución y Logística.

Es la póliza de el Distrito Educativo Independiente de Roma no discriminar por motivos de raza, color, origen nacional, sexo, o impedimento en sus programas, servicios or actividades vocacionales, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973.

El Distrito Educativo Independiente de Roma tomará las medidas necesarias para asegurar que la falta de habilidad en el uso de lengua inglés no sea un obstáculo para admisión y participación en todos los programas educativos y vocacionales.

Para información sobre sus derechos o procedimientos para quejas, comuníquese con la Coordinadora del Título IX, Luis E. Garza, en 608 North Garcia St., Roma Texas, (956) 849-1377, y/o la Especialista del Sección 504, Edgar Garza, en 608 North Garcia St., Roma Texas (956) 849-1377.

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Roma I.S.D. Vision, Mission & Goals

District Vision:

Roma ISD will become a system of world-class, where students develop the knowledge, skills, and learning habits that prepare them for college and career success in the 21st century.

District Mission:

Roma ISD will provide educational excellence for all students, cultivating college, career and workforce readiness, while providing students with choices for a meaningful and successful life.

District Goals:

1. We will create a transformed school district that ensures high quality instruction and individualized learning, resulting in maximum achievement for all students.
2. We will attract, develop, and retain highly effective educators and provide the tools they need to maximize all students' success.
3. We will improve the learning experience by using data that measures all students' weaknesses and strengths in order to address their curricular needs.
4. We will develop an individualized learning plan for all students that will assess results at specific intervals to ensure post-secondary and career readiness is achieved.
5. We will increase the efficiency of communication between teachers, parents, and students to achieve the district's goal of meeting all students' educational needs.

Career and Technical Education Mission

CTE Department Mission Statement:

The primary and essential mission of the Roma I.S.D. Career and Technical Education Department is to both empower and to provide opportunities to students with the knowledge and essential skills necessary for college and career readiness in a global society.

Starting in elementary school, students are introduced to future college and career options. With the transition into middle school, students are exposed to more specific opportunities of careers which interest them. They begin to develop a plan that will help them take the necessary relevant and rigorous courses in high school as they prepare for post-secondary careers and higher education. Our High School CTE courses offer many types of opportunities and career pathways which assist in preparing our students for their future.

Student success in Career and Technical Education is achieved by following nine Career and Technical Education Departmental guidelines:

6. Inclusion – CTE provides all students with full access to high-quality offerings in career technical education.
7. Economy – CTE serves the career preparation needs and interests of students, industry, labor, and communities while promoting workforce and economic development.
8. Preparation – CTE prepares students to master the necessary technical, academic, employability, decision-making, and interpersonal skills to make the transition to meaningful postsecondary education

and employment.

9. Career Planning – CTE provides students with opportunities to develop and apply the skills needed for planning and managing their careers.

10. Integration - CTE incorporates instructional strategies to improve teaching and learning through rigorous academic content standards applied in real-world situations.

11. Programs of Study - CTE provides sequenced curricular pathways that include career-related and academic content standards to prepare students for success in postsecondary education, careers, and lifelong learning.

12. Innovation - CTE fosters innovation and continuous improvement of instructional content and delivery.

13. Perspective - CTE demonstrates a forward-looking vision that meets the contemporary and emerging needs of individuals, communities, and the economy.

14. Collaboration - CTE partners with business, industry, labor, postsecondary education, and the community to provide classroom and work-based learning opportunities that prepares all students for success.

CTE Objectives

1. Assist students to gain entry-level employment in an in-demand, high-skill, high-wage job and/or to continue their education with a goal of student self-sufficiency.
2. Link CTE from elementary levels to postsecondary levels.
3. Collaborate with the CTE advisory committee that provides support to Roma's CTE programs that are aligned to 21st century targeted occupations.
4. Provide support for local education and business partnerships, including work-related and job shadowing experiences that are related to CTE programs.
5. Recognize CTE students and staff achievements and CTE community partners and advisory committee members.

Endorsements, Career Clusters, and Programs of Study

Per Texas Education Agency, a student must specify in writing an endorsement(s) the student intends to earn prior to entering Grade 9. Endorsements can be changed by submitting an updated form with appropriate signatures. CTE offers three endorsements--- *Business & Industry*, *Public Service*, and *STEM*. Career Clusters and Programs of Study will support the completion of Endorsements.

Business & Industry

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, A/V Technology & Communication
- Business, Marketing & Finance
- Energy
- Information Technology

- Manufacturing
- Transportation, Distribution & Logistics

Public Service

- Education & Training
- Health Science
- Hospitality & Tourism
- Human Services
- Law & Public Service

Science, Technology, Engineering and Mathematics

- STEM

Effective 2021-2022 school year, Roma ISD is offering approved statewide and regional CTE Programs of Study within the following Career Clusters to give students an opportunity to enroll in a coherent sequence of courses that will prepare them for high-demand, high-skill, and high wage careers in Texas.

2022-2023 RHS ENDORSEMENTS & CAREER CLUSTERS

Business & Industry (8)



Arts, A/V Technology
& Communications



Agriculture, Food
& Natural Resources



Architecture
& Construction



Information
Technology



Business, Marketing
& Finance



*Energy



*Manufacturing



Transportation,
Distribution
& Logistics

Public Service (5)



Health Science



Human
Services



Education
& Training



Hospitality
& Tourism



Law, Public Safety,
Corrections
& Security

STEM (1)



Science,
Technology,
Engineering &
Mathematics

RHS Clusters= 12/14

***NOT CURRENTLY BEING OFFERED FOR 2022-2023**

Roma ISD 2022-2023

CTE Clusters, Programs of Study and Endorsements

Career Cluster	Program of Study	Endorsement
Agriculture, Food, and Natural Resources	<i>Applied Agricultural Engineering</i> <i>Agribusiness</i>	Business & Industry Business & Industry
Architecture and Construction	<i>Carpentry</i>	Business & Industry
Arts, Audio Visual Technology and Communication	<i>Design and Multimedia</i>	Business & Industry
	<i>Digital Communications</i>	Business & Industry
Business, Marketing & Finance	<i>Business Management</i>	Business & Industry
	<i>Entrepreneurship</i>	Business & Industry
Energy	<i>NONE for 2022-2023</i>	Business & Industry
Information Technology	<i>Information Technology Support and Services</i>	Business & Industry
	<i>Networking Systems</i>	Business & Industry
Manufacturing	<i>NONE for 2022-2023</i>	Business & Industry
Transportation, Distribution & Logistics	<i>Automotive</i>	Business & Industry
Education and Training	<i>Early Learning</i>	Public Service
	<i>Teaching and Training</i>	Public Service
Health Science	<i>Health Informatics</i>	Public Service
	<i>Healthcare Diagnostics</i>	Public Service
	<i>Healthcare Therapeutics</i>	Public Service
	<i>Medical Therapy</i>	Public Service
	<i>Nursing Science</i>	Public Service
Hospitality and Tourism	<i>Culinary Arts</i>	Public Service
Human Services	<i>Family and Community Services</i>	Public Service
Law and Public Service	<i>Emergency Services</i>	Public Service
	<i>Law Enforcement</i>	Public Service
Science, Technology, Engineering and Mathematics (STEM)	<i>Cybersecurity</i>	STEM
	<i>Engineering</i>	STEM

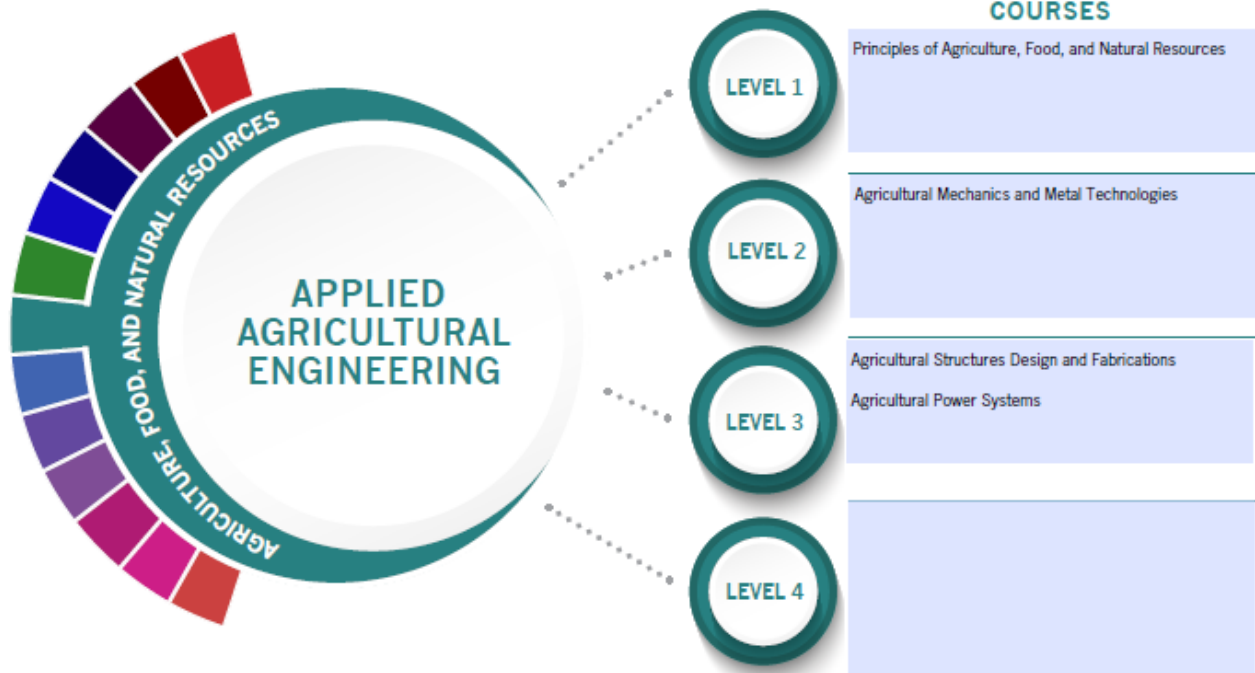
Business & Industry Endorsement



Local Implementation Considerations:

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
OSHA 30 Hour General Industry	Certified Professional Agronomist	Heavy Equipment Maintenance Technology/ Technician	Agricultural Engineering	
Feedyard Technician in Machinery, Operation, Repair and Maintenance	Certified Reliability Engineer	Agricultural Mechanization, General	Agricultural Mechanization, General	
AWS SENSE Welding Level 1	Certified Irrigation Designer	Small Engine Mechanics and Repair Technology/ Technician		
AWS D1.1 or D9.1 Certification	Fluid Power Mobile Hydraulic Mechanic	Welding Technology/ Welder		
Additional industry based certification information is available from the TEA CTE website.				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Outdoor Power Equipment and Other Small Engine Mechanics	\$32,406	366	16%
Welders	\$41,350	6,171	9%
Farm Equipment Mechanics and Service Technicians	\$39,915	304	17%
Mobile Heavy Equipment Mechanics	\$47,299	1,627	16%
Agricultural Engineers	\$64,792	9	13%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Tour a farm products or
machinery plant
Texas FFA

**Work Based Learning
Activities:**
Earn a welding certification;
intern at a farm products or
machinery plant

The Applied Agricultural Engineering program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing agricultural products. This program of study may also include exploration into diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.



Student Signature: _____ Date: _____
 Parent Signature: _____ Date: _____
 Counselor Signature: _____ Date: _____

Notice: It is the policy of Roma ISD not to discriminate on the basis of race, color, national origin, gender, or disability in its educational and Career and Technical Education programs, activities as required by Title VI or the Civil Rights Act of 1964.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	9-12
Agricultural Mechanics and Metal Technologies/Lab	13002200 (1 credit) 13002210 (2 credits)	None	10-12
Agricultural Structures Design and Fabrications/Lab	13002300 (1 credit) 13002310 (2 credits)	PREQ: Agricultural Mechanics and Metal Technologies	11-12
Agricultural Power Systems/Lab	13002400 (2 credits) 13002410 (3 credits)	None	10-12
Geographic Information Systems for Agriculture	TBD	TBD	TBD
Agricultural Equipment Design and Fabrication/Lab	13002350 (1 credit) 13002360 (2 credits)	None	11-12
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 13002505 (3 credits) 13002510 (2 credits) 13002515 (3 credits)	None	11-12
Project-Based Research	12701500 (1 credit)	None	11-12
Scientific Research and Design	13037200 (1 credit)	PREQ: Biology, Chemistry, Integrated Physics, and Chemistry (IPC), or Physics	11-12

FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER, PLEASE CONTACT:

Amanda Brantley | Amanda.Brantley@tea.texas.gov

<https://tea.texas.gov/cte>



Teacher(s):

Mr. Sixto Flores III
Mr. Jorge Gonzalez II
Mr. Joey Ramon



Example Occupations

Agriculture Mechanic
 Ranchers
 Production Supervisors
 Biochemist
 USDA Inspector
 Irrigation Specialists
 Landscapers
 Veterinarian
 Welder

ROMA HIGH SCHOOL

BUSINESS AND INDUSTRY ENDORSEMENT



**Agriculture,
 Food &
 Natural
 Resources**

This cluster focuses on the essential elements of life- water, air, food and land. If you love to be outdoors, enjoy caring for plants and animals, and want to help conserve our natural resources, then this might be the right cluster for you.

Program(s) of Study: Applied Agricultural Engineering and Agribusiness

Courses Offered: Principles of Agriculture, Food and Natural Resources, Agriculture Mechanics and Metal Fabrication, Agriculture Facilities Design and Fabrication, Agriculture Power Systems, Professional Standards in Agribusiness, Landscape Design and Management, and Welding.

Certificates Available: American Welding Society (AWS) D1.1 Structural Steel, American Welding Society (AWS) D9.1 Sheet Metal and OSHA 30-Hour General Industry

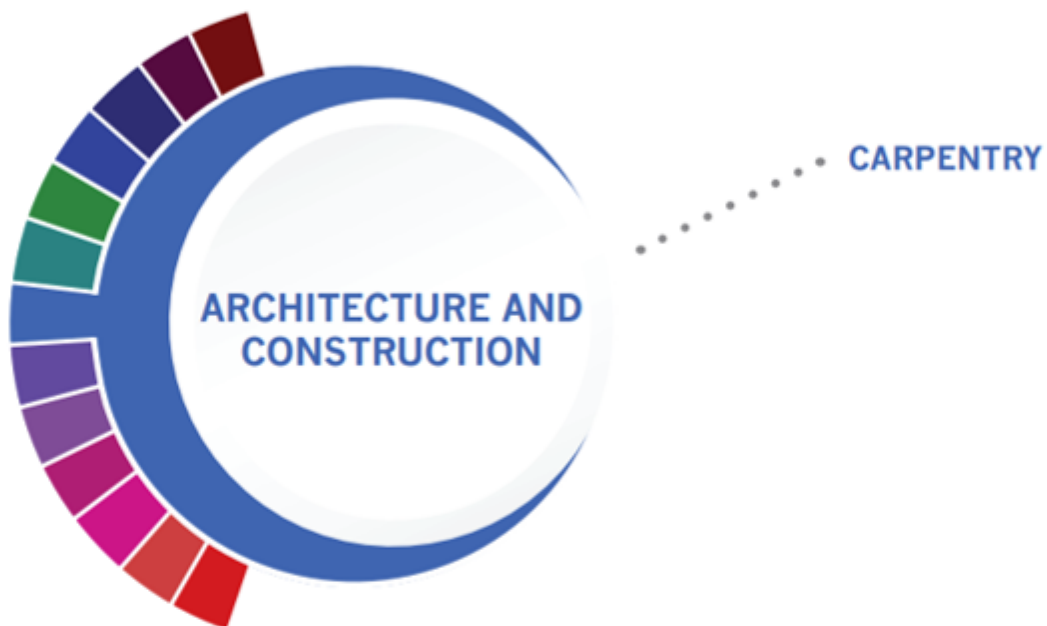
Clubs: Future Farmers of America (FFA)



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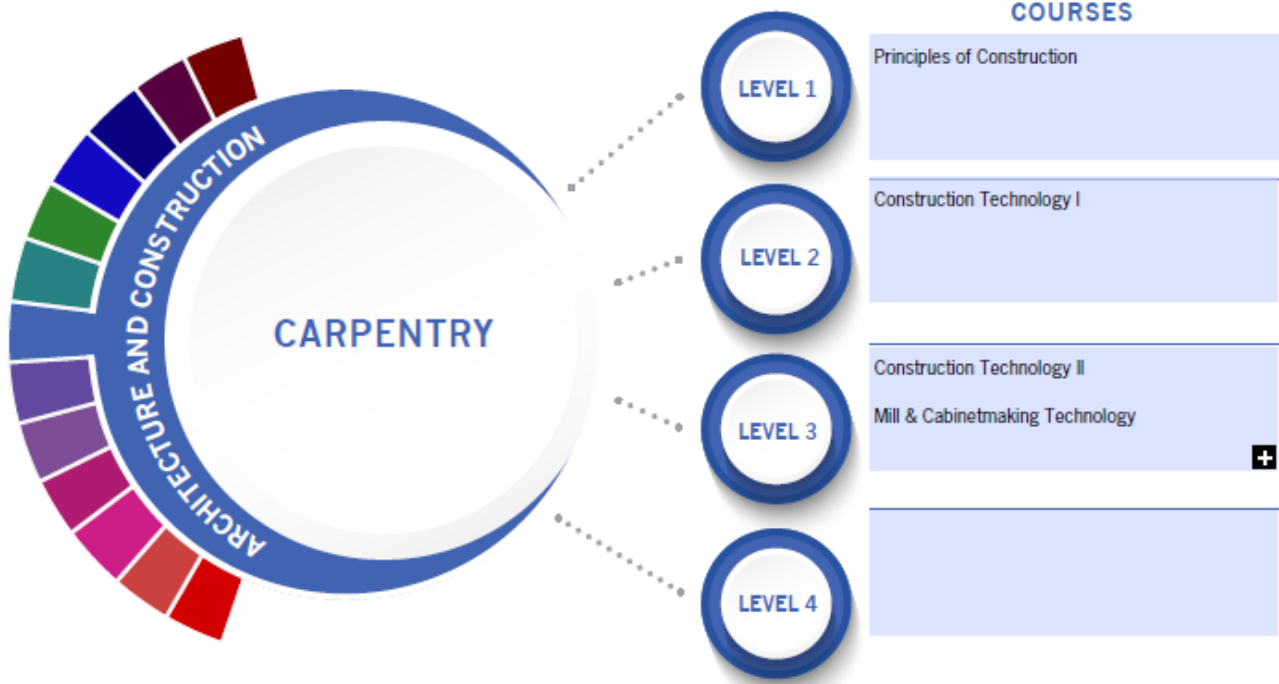
Updated: August 2022

Business & Industry Endorsement



Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATES DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Carpentry, Level 1 & 2	Certified Lead Carpenter	Carpentry/ Carpenter	Construction Science	Construction Management
NCCER Commercial Carpenter	Certified Installer	Industrial Mechanics and Maintenance Technology		
NCCER Core Curriculum	Certified Door Consultant			
NCCER Construction Technology	Fluid Power Connector and Conductor			

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit
TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Carpenters	\$35,922	5,031	26%
Cost Estimators	\$63,939	2,239	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Shadow a carpenter or
millwright.
SkillUSA

**Work Based Learning
Activities:**
Obtain an NCCER
certification in Millwright
Level 1 or Carpentry Level
1.

The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.



Student Signature: _____ Date: _____
Parent Signature: _____ Date: _____
Counselor Signature: _____ Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Construction	13004220 (1 credit)	None	9-12
Principles of Architecture	13004210 (1 credit)	None	9-12
Construction Technology I	13005100 (2 credits)	None	10-12
Construction Technology II	13005200 (2 credits)	PREQ: Construction Technology I	11-12
Mill & Cabinetmaking Technology	13005300 (2 credits)	None	10-12
Practicum in Construction Technology	13005250 (2 credits) 13005255 (3 credits) 13005260 (2 credits) 13005265 (3 credits)	PREQ: Construction Technology II, Building Maintenance Technology II, Electrical Technology II, Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II, Plumbing Technology I, or Mill and Cabinetmaking Technology	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT:

Les Hudson | Les.Hudson@tea.texas.gov

<https://tea.texas.gov/cte>



ROMA HIGH SCHOOL

BUSINESS AND INDUSTRY ENDORSEMENT



**Architecture &
Construction**



The Architecture & Construction Cluster provides a variety of career opportunities in the various fields of architecture, interior design, construction science, and construction technology.

Program(s) of Study: Carpentry

Courses Offered: Principles of Architecture & Construction, Mill & Cabinet Making Technology, Construction Technology I, and Construction Technology II.

Program Highlights: Students in the Building Trades Program Skills USA have been competing at the State-level competition for the past eleven years. In the process they have been successful by earning State Superior ratings on a yearly basis.

Certificates Available: S/P 2- Construction Industry, Interior Skills for Construction and Ethics, You in the Construction Industry, Employability Skills and Frontline Supervisor.

Clubs: Skills USA

Example Occupations

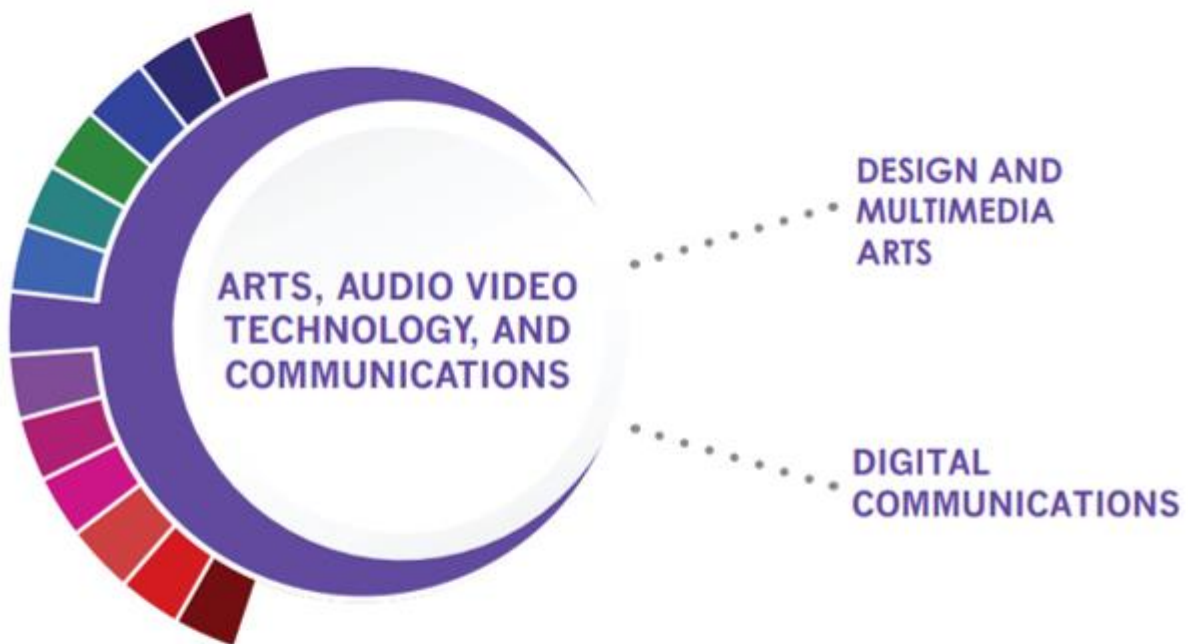
Residential/Commercial
Carpenter
Construction Worker
Electrical Design Engineer
Electrician
HVAC/HVACR Technician
Building Services
Technician
Architectural Engineer
Environmental Designer
Civil Drafter



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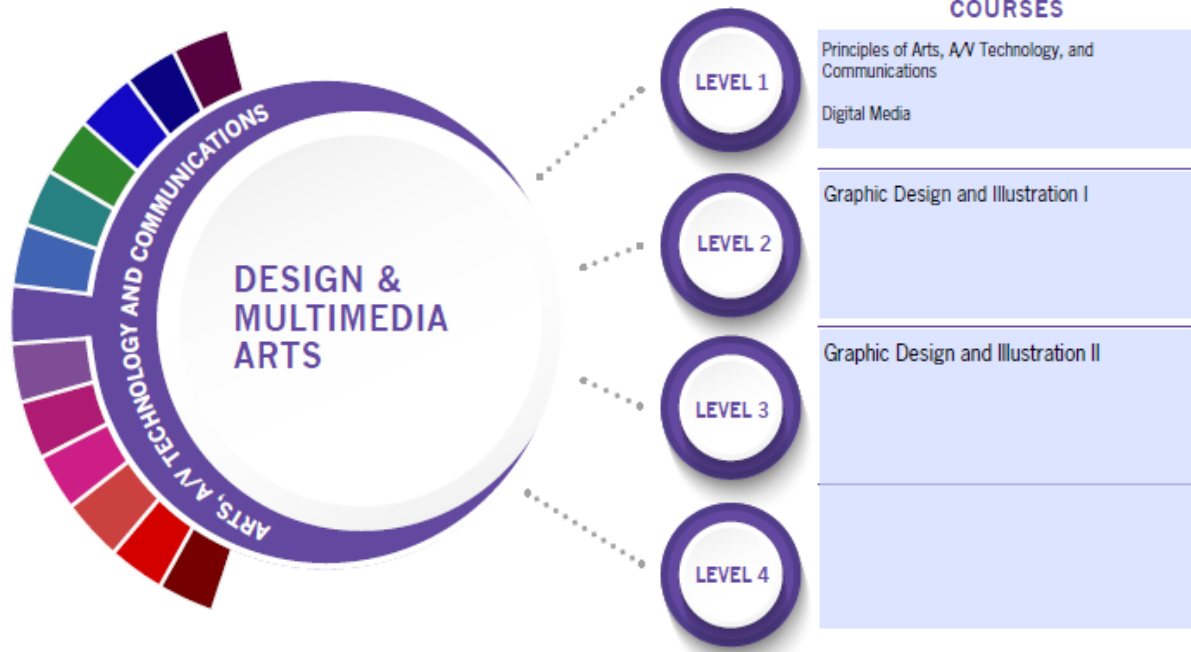
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HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Adobe Certified Associate Certifications	Certified Digital Designer	Animation, Interactive Technology, Video Graphics and Special Effects		
Adobe Certified Expert Certifications	WOW Certified Web Designer Apprentice	Graphic Design		
Apple Logic Pro X	Adobe Suite Certifications	Game and Interactive Media Design	Intermedia/ Multimedia	

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Graphic Designers	\$44,824	1,433	15%
Multimedia Artists and Animators	\$67,392	186	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Join a website development or coding club.
SkillsUSA, TSA

Work Based Learning Activities:
Intern with a multimedia or animation studio.
Obtain a certificate in graphic design.

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.



Student Signature: _____
Parent Signature: _____
Counselor Signature: _____

Date: _____
Date: _____
Date: _____

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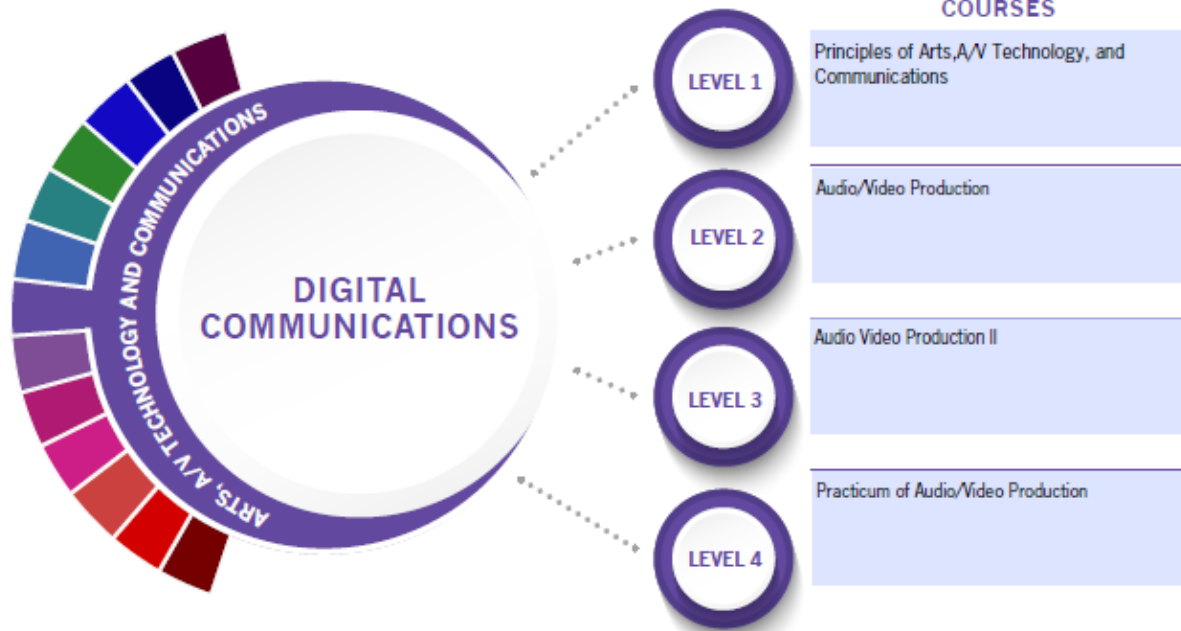
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Arts, A/V Technology, and Communications	13008200 (1 credit)	None	9
Video Game Design	13009970 (1 credit)	None	9-12
Digital Media	13027800 (1 credit)	None	9-12
Graphic Design and Illustration I /Lab	13008800 (1 credit) 13008810 (2 credits)	None	10-12
Animation I/Lab	13008300 (1 credit) 13008310 (2 credits)	None	10-12
Video Game Programming	N1300994 (1 credit)	None	10-12
Commercial Photography I/Lab	13009100 (1 credit) 13009110 (2 credits)	None	9-12
Fashion Design I/Lab	13009300 (1 credit) 13009310 (2 credits)	None	10-12
Digital Design and Media Production	03580400 (1 credit)	None	9-12
Game Programing and Design	03580380 (1 credit)	PREQ: Algebra I	9-12
Graphic Design and Illustration II /Lab	13008900 (1 credit) 13008910 (2 credits)	PREQ: Graphic Design and Illustration I	10-12
Animation II/Lab	13008400 (1 credit) 13008410 (2 credits)	PREQ: Animation I	11-12
Advanced Video Game Programming	N1300995 (1 credit)	None	10-12
Fashion Design II/Lab	13009400 (1 credit) 13009410 (2 credits)	PREQ: Fashion Design I	11-12
Digital Art and Animation	03580500 (1 credit)	None	9-12
3-D Modeling and Animation	03580510 (1 credit)	None	9-12
Commercial Photography II/Lab	13009200 (1 credit) 13009210 (2 credit)	None	10-12
Practicum in Graphic Design and Illustration	13009000 (2 credits) 13009005 (3 credits) 13009010 (2 credits) 13009015 (3 credits)	PREQ: Graphic Design and Illustration II and Graphic Design and Illustration II Lab	10-12
Practicum in Animation	13008450 (2 credits) 13008455 (3 credits) 13008460 (2 credits) 13008465 (3 credits)	PREQ: Animation II and Animation II Lab	11-12
Practicum in Commercial Photography	13009250 (2 credits) 13009255 (3 credits) 13009260 (2 credits) 13009265 (3 credits)	PREQ: Commercial Photography I and Commercial Photography I Lab.	10-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD

FOR ADDITIONAL INFORMATION ON THE ARTS, AUDIO/VISUAL TECHNOLOGY, AND COMMUNICATIONS CAREER CLUSTER, PLEASE CONTACT:

Les Hudson | Les.Hudson@tea.texas.gov

<https://tea.texas.gov/cte>



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Apple Final Cut Pro X	Certified Video Engineer	Recording Arts Technology/Technician		Communications Technology/ Technician	Sound Engineering Technicians	\$39,562	79	27%
					Camera Operators, Television, Video and Motion Picture	\$50,024	129	9%
Apple Logic Pro X	Commercial Audio Technician	Cinematography and Film/ Video Production			Audio and Video Equipment Technicians	\$40,581	757	29%
					Film and Video Editors	\$47,382	118	23%
Adobe Certified Associate Premiere Pro	Certified AM Directional Specialist	Radio and Television Broadcasting Technology/ Technician	Radio and Television					
Adobe Certified Associate Certifications	Certified Broadcast Radio Engineer	Music Technology	Agricultural Communication/ Journalism					
Additional industry based certification information is available from the TEA CTE website.								
For more information on postsecondary options for this program of study, visit TXCTE.org.								
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES								
Exploration Activities: Shadow a production team SkillsUSA, TSA						Work Based Learning Activities: Intern at a local television station or video production company		

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.



Student Signature: _____ Date: _____
 Parent Signature: _____ Date: _____
 Counselor Signature: _____ Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Arts, A/V Technology, and Communications	13008200 (1 credit)	None	9
Professional Communications	13009900 (.5 credits)	None	9-12
Web Communications	03580810 (.5 credits)	None	9
Digital Communications in the 21st Century	03580610 (1 credit)	None	9-12
Audio/Video Production I/Lab	13008500 (1 credit) 13008510 (2 credits)	None	10-12
Digital Audio Technology I	13009950 (1 credit)	None	9-12
Audio Video Production II/Lab	13008600 (1 credit) 13008610 (2 credits)	PREQ: Audio/Video Production I	10-12
Digital Audio Technology II	13009960 (1 credit)	PREQ: Digital Audio Technology I	10-12
Practicum of Audio/Video Production	13008700 (2 credits) 13008705 (3 credits) 13008710 (2 credits) 13008715 (3 credits)	PREQ: Audio/Video Production II/Lab	11-12
Practicum of Digital Audio Technology	TBD	TBD	TBD
Practicum of Entrepreneurship	TBD	TBD	TBD

**FOR ADDITIONAL INFORMATION ON THE ARTS, AUDIO/VISUAL TECHNOLOGY,
AND COMMUNICATIONS CAREER CLUSTER, PLEASE CONTACT:**

Les Hudson | les.hudson@tea.texas.gov

<https://tea.texas.gov/cte>



Teacher(s):

Mr. Jesus E. Vidal
Ms. Eunice Ortega
Mr. Ervey Alaniz



Example Occupations

Video or Web Producer
Film Maker
Graphic Designer
Radio/TV Production
Television Studio Producer
Radio/TV Broadcaster
Publisher
Interior Designer
Textile Designer

ROMA HIGH SCHOOL

BUSINESS AND INDUSTRY ENDORSEMENT



Arts, A/V Technology & Communications

Creative students who see themselves designing, producing, exhibiting, performing, writing, or publishing multi-media content will want to pursue courses in the Arts, A/V Technology & Communications cluster.

Program(s) of Study: Design & Multimedia Arts and Digital Communications

Courses Offered: Principles of Arts, A/V Technology & Communications, Audio/Video Production, Advanced Audio/Video Production, Practicum in Audio/Video Production, and Graphic Design & Illustration.

Program Highlights: Students in the Arts, A/V Technology & Communications cluster have had many accolades at the district, region, and state levels including; 1st place in Skills USA-Television Production, Multiple Skills USA State Finalists in Television Video Production, and 1st place in the Starr County Industrial Foundation Video contest.

Certificates Available: Apple Logic Pro X, Apple Final Cut Pro, Apple iWork, Television Operator (Precision Exams)

Clubs: Skills USA, Business Professionals of America (BPA)



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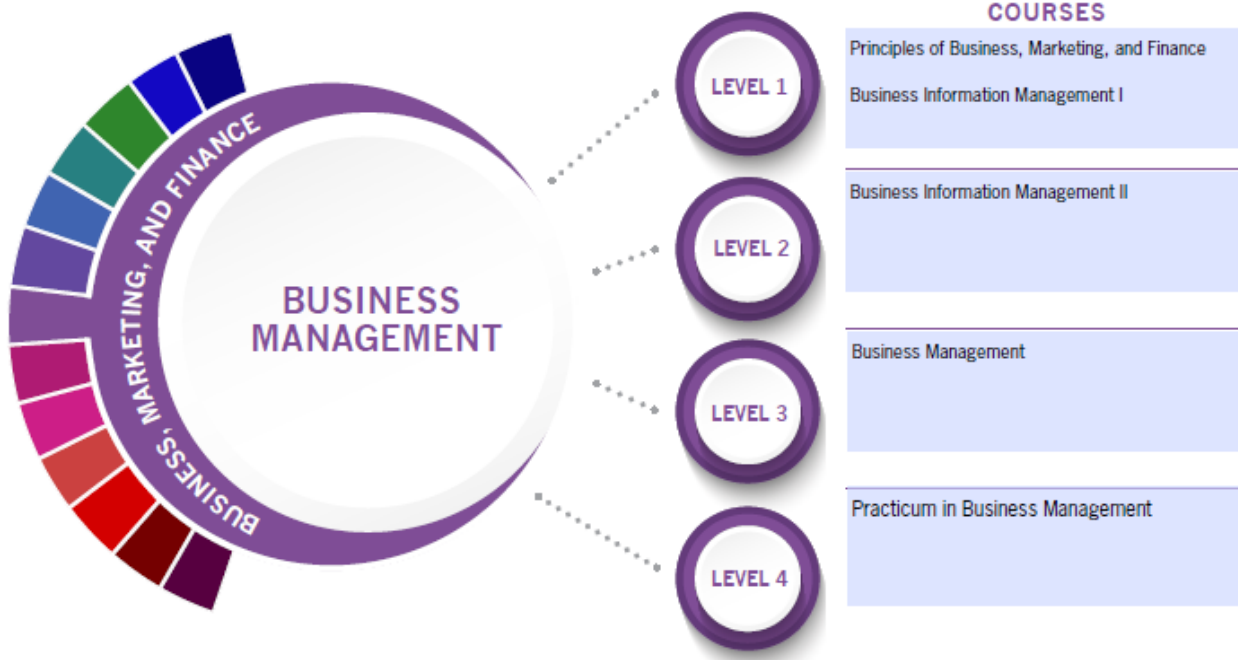
Updated: August 2022

Business & Industry Endorsement



Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist or Expert - Excel	Certified Records Manager	Business Administration		
Microsoft Office Specialist or Expert - Word	Certified Facility Manager	Business/ Commerce		Business Management
Google Cloud Certified Professional - G-Suite	Certified Commercial Contracts Manager	Public Administration		
Certified Associate in Project Management	Teradata 14 Basics/ Certified Technical Specialist	Business Management	Management Science	
Additional industry based certification information is available from the TEA CTE website.				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

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%
Operations Research Analysts	\$78,083	1,128	38%
Supervisors of Administrative Support Workers	\$57,616	14,982	20%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Business Professionals of America (BPA), Future Business Leaders of America (FBLA), and DECA

Work Based Learning Activities:
Internship with local business or chamber of commerce;

The Business Management program of study teaches CTE concentrators 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.



Student Signature: _____
Parent Signature: _____
Counselor Signature: _____

Date: _____
Date: _____
Date: _____



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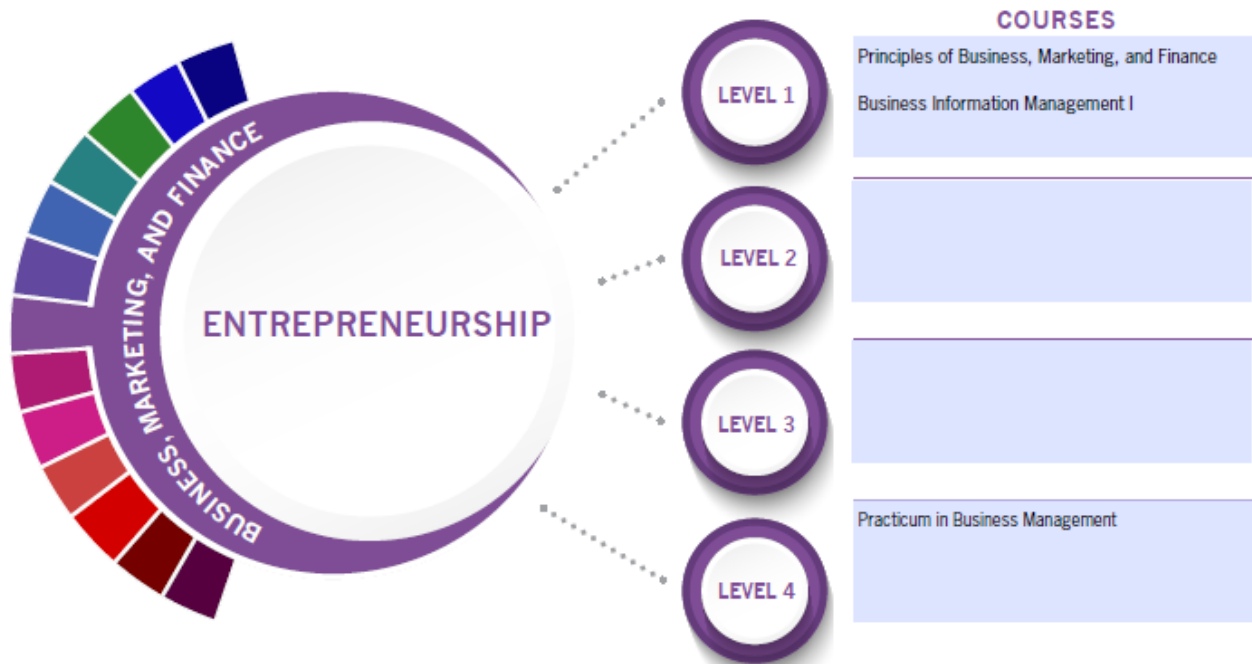
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	9-11
Business Information Management I/Lab	13011400 (1 credit) 13011410 (2 credits)	None	9-12
Business Law	13011700 (1 credit)	None	11-12
Virtual Business	13012000 (.5 credit)	None	10-12
Business Information Management II/Lab	13011500 (1 credit) 13011510 (2 credits)	PREQ: Business Information Management I	10-12
Business Management	13012100 (1 credit)	None	10-12
Global Business	13011800 (.5 credit)	None	10-12
Human Resource Management	13011900 (.5 credit)	None	11-12
Statistics and Business Decision Making	13016900 (1 credit)	PREQ: Algebra II	11-12
Practicum in Business Management	13012200 (2 credits) 13012205 (3 credits) 13012210 (2 credits) 13012215 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE BUSINESS, MARKETING,
AND FINANCE CAREER CLUSTER, PLEASE CONTACT:

Dale Fowler | Dale.Fowler@tea.texas.gov

<https://tea.texas.gov/cte>



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATES DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Microsoft Office Expert - Excel	Certified Facility Manager	Business Administration and Management			General and Operations Managers	\$107,640	18,679	20%
Microsoft Office Expert - Word	Certified Management Accountant	Business/ Commerce			Management Analysts	\$87,651	4,706	32%
Entrepreneurship and Small Business	Certified Project Consultant	Public Administration			Managers, All Others	\$113,110	1,794	26%
	Accredited Management Consultant	Business Management	Management Science		WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
Additional industry based certification information is available from the TEA CTE website.					Exploration Activities: Business Professionals of America (BPA), Future Business Leaders of America (FBLA), and DECA		Work Based Learning Activities: Internship with local management consulting firm	
For more information on postsecondary options for this program of study, visit TXCTE.org.								

The Entrepreneurship program of study teaches CTE concentrators 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.



Student Signature: _____

Parent Signature: _____

Counselor Signature: _____

Date: _____

Date: _____

Date: _____



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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	9-11
Business Information Management I/Lab	13011400 (1 credit) 13011410 (2 credits)	None	9-12
Entrepreneurship	13034400 (1 credit)	None	10-12
Mobile Application Development	03580390 (.5 -1 credit)	PREQ: Algebra 1	9-12
Entrepreneurship II (TBD)	TBD	TBD	TBD
Practicum in Business Management	13012200 (2 credits) 13012205 (3 credits) 13012210 (2 credits) 13012215 (3 credits)	None	11-12
Practicum in Marketing	13034800 (2 credits) 13034805 (3 credits) 13034810 (2 credits) 13034815 (3 credits)	None	11-12
Practicum in Entrepreneurship (TBD)	TBD	TBD	TBD
Project-Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

**FOR ADDITIONAL INFORMATION ON THE BUSINESS, MARKETING,
AND FINANCE CAREER CLUSTER, PLEASE CONTACT:**

Dale Fowler | dale.fowler@tea.texas.gov
<https://tea.texas.gov/cte>



Teacher(s):

Mrs. Gladys Eliserio
Mrs. Marlene Figueroa
Mr. Erasmo Gomez
Ms. Marissa Munoz
Ms. Nora Abigail Ortega



Example Occupations

Chief Executive Officer
 Entrepreneur
 Office Manager
 Research Analyst
 Financial Officer
 Human Resource Mgr.
 Business Executive
 Marketing Manager
 Retail Salesperson

ROMA HIGH SCHOOL

BUSINESS AND INDUSTRY ENDORSEMENT



Business, Marketing & Finance

This cluster focuses in the planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Students learn business skills essential to productive operations for any company.

Program(s) of Study: Business Management and Entrepreneurship

Courses Offered: Principles of Business, Marketing, and Finances, Business Information Management I, Business Information Management II, Accounting I, Business Management, and Practicum in Business Management.

Program Highlights: Many students have successfully participated in UIL Academics and BPA competition.

Certificates Available: Microsoft Office Specialist in Word, Excel, Power Point and Access. Advanced Technical Credit (ATC) is also available at RHS (BIM1/BIM2/PBMF)

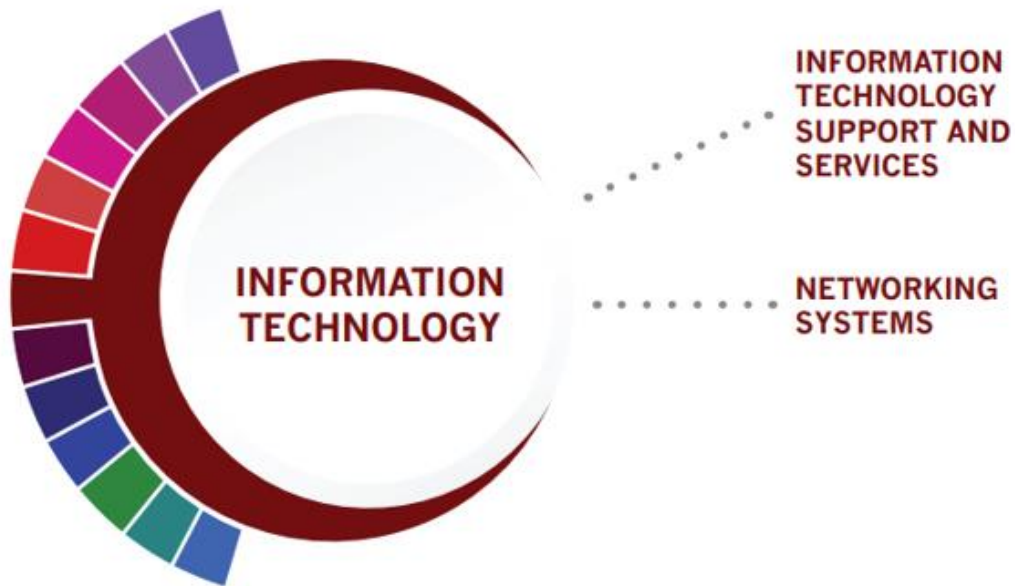
Clubs: Business Professionals of America (BPA), UIL, and Yearbook



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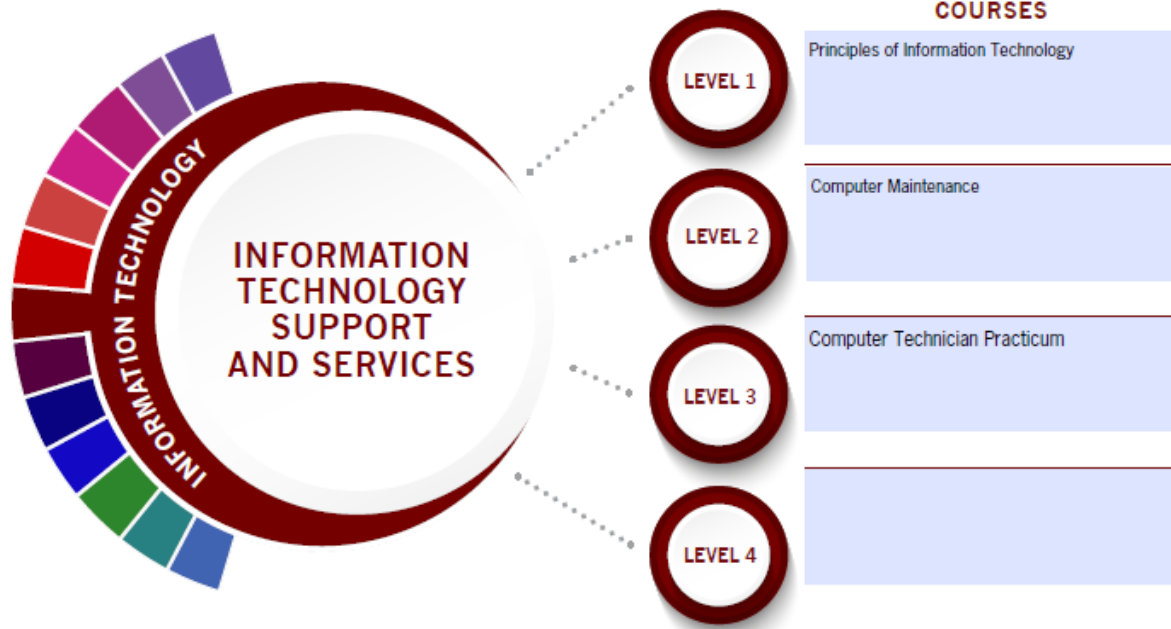
Updated: August 2022

Business & Industry Endorsement



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HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Technology Associate Windows Operating System Fundamentals	IBM Certified Specialist - InfoSphere Optim for Distributed Systems Fundamentals	Computer and Information Sciences, General		
ERSI ArcGIS Desktop Entry	IBM Certified Database Associate - DB2 11 Fundamentals for z/OS	Computer and Information Systems Security/Information Assurance		Computer Systems Analysis/ Analyst
CompTIA A+	HP ASE - ProLiant Server Solutions Integrator V2	Information Technology	Computer Engineering, General	
CompTIA IT Fundamentals +	Oracle Linux 6 Advanced System Administration	Computer Systems Networking and Telecommunications		Information Technology
Additional industry based certification information is available from the TEA CTE website				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Database Administrator	\$83,075	1,063	19%
Computer Hardware Engineer	\$111,738	343	24%
Computer System Analyst and Support	\$87,568	5,937	29%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities: Join TSA Job shadow a database administrator or computer hardware engineer	Worked Based Learning Activities: Obtain a Certification

The Information Technology Support and Services program of study explores the occupations and educational opportunities associated with administering, testing, and implementing computer databases and applying knowledge of database management systems. This program of study may also include analyzing user requirements and problems to automate or improve existing systems and review computer system capabilities. This program of study may also include exploration into the research, design, or testing of computer or computer-related equipment for commercial, industrial, military, or scientific use.



Student Signature: _____ Date: _____
 Parent Signature: _____ Date: _____
 Counselor Signature: _____ Date: _____



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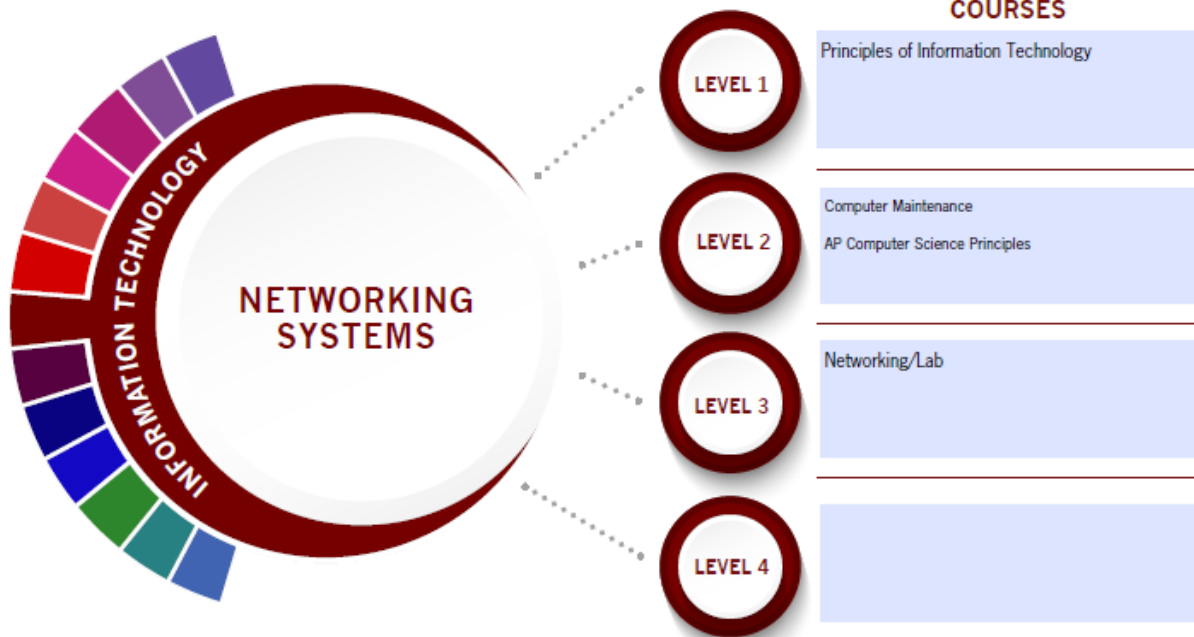
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITE (PREQ) COREQUISITE (CREQ)	GRADE
Principles of Information Technology	13027200 (1 credit)	None	9-10
Geographic Information Systems	N1302805 (1 credit)	None	10-12
Computer Maintenance/Lab	13027300 (1 credit) 13027310 (2 credits)	None	10-12
Raster Based GIS	N1302806 (1 credit)	None	10-12
Computer Technician Practicum	13027500 (2 credits) 13027505 (3 credits)	None	10-12
Spatial Technology and Remote Sensing	N1302807 (1 credit)	None	10-12
IT Troubleshooting	TBD	TBD	TBD
Computer Technician Practicum (2nd time)	13027510 (2 credits) 13027515 (3 credits)	PREQ: Computer Technician Practicum	12
Practicum in Information Technology	13028000 (2 credits) 13028005 (3 credits) 13028010 (2 credits) 13028015 (3 credits)	PREQ: A minimum of two high school information technology (IT) courses	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Project-Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE THE INFORMATION TECHNOLOGY CAREER CLUSTER, PLEASE CONTACT:

Laura Torres | laura.torres@tea.texas.gov

<https://tea.texas.gov/cte>



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Oracle Certified Associate Java SE 8	AEM 6 Business Practitioner	Computer and Information Sciences, General		
Oracle Certified Database Associate	Intelligence Planner Certification Program	Computer Systems Networking and Telecommunications		Information Technology
Cisco Certified Entry Networking Technician (CCENT)	Cisco Certified Entry Networking Technician	Information Technology	Computer and Information Systems Security/ Information Assurance	
Associate of (ISC)2	Microsoft Networking Fundamentals	Network and System Administration/Administrator	Computer Engineering, General	
*Includes Level 1 and Level II Certificates				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

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%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Join TSA
Job shadow a computer network architect or support specialist

Work Based Learning Activities:

Earn an industry-based certification.

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.



Student Signature: _____

Date: _____

Parent Signature: _____

Date: _____

Counselor Signature: _____

Date: _____



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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREQ: Prerequisite CREQ: Corequisite	GRADE
Computer Science I	03580200 (1 credit)	Algebra I	9-10
Principles of Information Technology	13027200 (1 credit)	None	9-10
Principles of Cloud Computing (TBD)	TBD	TBD	TBD
Internetworking Technologies I	N1302803 (1 credit)	None	10-12
Computer Maintenance/Lab	13027300 (1 credit) 13027310 (2 credits)	PREQ: Principles of Information Technology. CREQ: Computer Maintenance Lab	10-12
AP Computer Science Principles	A3580300 (1 credit)	Algebra I	9-12
Cloud Networking (TBD)	TBD	TBD	TBD
Internetworking Technologies II	N1302804 (1 credit)	PREQ: Internetworking Technologies I	10-12
Networking/Lab	13027400 (1 credit) 13027410 (2 credits)	RPREQ: Principles of Information Technology, Computer Maintenance, and Computer Maintenance Lab CREQ: Networking	10-12
Practicum in Information Technology	13028000 (2 credits) 13028005 (3 credits) 13028010 (2 credits) 13028015 (3 credits)	PREQ: Minimum of two high school information technology (IT) courses CREQ: Practicum in Information Technology	12
Practicum in Entrepreneurship (TBD)	TBD	TBD	TBD
Project Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE THE INFORMATION TECHNOLOGY
CAREER CLUSTER, PLEASE CONTACT:

Laura Torres | laura.torres@tea.texas.gov

<https://tea.texas.gov/cte>



Teacher(s):

Mr. Romeo Benitez
Mrs. Gladys Elisario
Mrs. Marlene Figueroa
Mr. Erasmo Gomez
Mr. Jose A. Guerra
Ms. Marissa Munoz
Ms. Nora Abigail Ortega



Example Occupations

- *Web Designer/Master
- *Network Administrator
- *Telecommunications Technician
- *Data Communications Analyst
- *Computer/Game Programmer
- *Graphic Artist

ROMA HIGH SCHOOL

BUSINESS AND INDUSTRY ENDORSEMENT



Information Technology

Information Technology careers are available in every sector of the economy. Careers in IT involve the design, development, support and management of hardware, software, multimedia and systems integration services. The IT industry is a dynamic and entrepreneurial field that continues to have a revolutionary impact on the economy and on the world.

Programs of Study: Information Technology Support & Services and Networking Systems

Courses Offered: Principles of Information Technology, Digital Media, Web Technologies, Computer Maintenance, Telecommunications & Networking, Networking Lab, and Computer Technician.

Certificates Available: Telecommunications Technology, Network Cabling Specialist-Copper, Leviton Certified Installer-Copper, and Network Cabling Specialist- Fiber Optic. Also available is a Networking/Networking Lab (1 hr. Credit)

Clubs: Skills USA, UIL, and Yearbook



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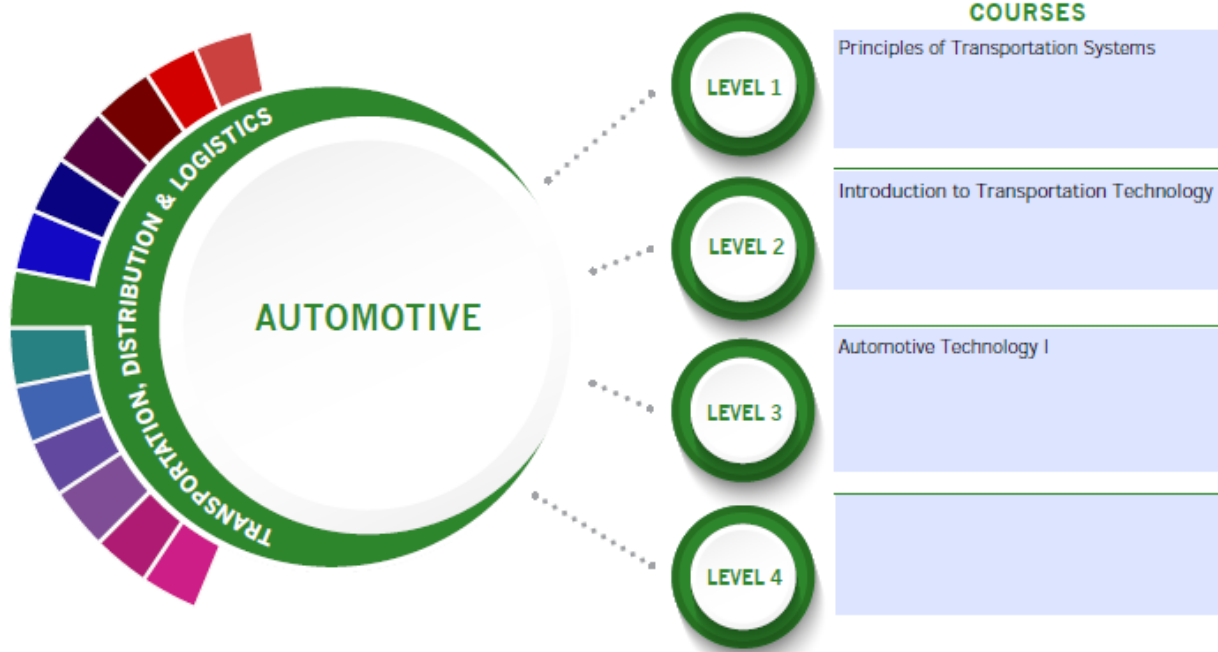
Updated: August 2022

Business & Industry Endorsement



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Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Automotive Service Excellence (ASE) Entry Level	Master Collision Repair and Refinishing Technician	Autobody/ Collision and Repair Technology/ Technician		Mechanical Engineering
Automotive Service Excellence (ASE) Professional Level	Automobile Technician: various systems and parts	Medium/Heavy Vehicle and Truck Technology/ Technician		
	Engine Machinist Technician	Mechanical Engineering/ Mechanical Technology/ Technician		
	Collision Repair and Refinish			

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Automotive Body and Related Repairers	\$40,144	1,456	25%
Automotive Service Technician and Mechanics	\$38,459	5,557	18%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
SkillsUSA competition
Automotive Service Association

Work Based Learning Activities:
Work at a local automotive repair or body shop.

The Automotive program of study teaches students how to repair and refinish automobiles and service various types of vehicles. Students 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.



Student Signature: _____
Parent Signature: _____
Counselor Signature: _____

Date: _____
Date: _____
Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Transportation Systems	13039250 (1 credit)	None	9-12
Small Engine Technology I	13040000 (1 credit)	None	9-12
Basic Collision Repair and Refinishing	13039750 (1 credit)	None	9-12
Automotive Basics	13039550 (1 credit)	None	9-12
Introduction to Transportation Technology	13039270 (.5 credit)	None	9-10
Small Engine Technology II	13040100 (2 credits)	PREQ: Small Engine Technology I	10-12
Collision Repair/Lab	13039800 (2 credits) 13039810 (3 credits)	None	10-12
Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	9-12
Automotive Technology I: Maintenance and Light Repair	13039600 (2 credits)	None	9-12
Energy and Power of Transportation Systems	13039300 (1 credit)	None	10-12
Paint and Refinishing/Lab	13039900 (2 credits) 13039910 (3 credits)	None	10-12
Automotive Technology II/Lab	13039700 (2 credits) 13039710 (3 credits)	PREQ: Automotive Technology I: Maintenance and Light Repair	11-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits) 13040460 (2 credits) 13040465 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

**FOR ADDITIONAL INFORMATION ON THE TRANSPORTATION, DISTRIBUTION,
AND LOGISTICS CAREER CLUSTER, PLEASE CONTACT:**

Kevin Johnson | Kevin.Johnson@tea.texas.gov

<https://tea.texas.gov/cte>



ROMA HIGH SCHOOL

BUSINESS & INDUSTRY ENDORSEMENT



Transportation, Distribution & Logistics

Teacher(s):

Mr. Matias Ochoa



The Transportation, Distribution & Logistics cluster prepares students to industry standards in the understanding of Electrical Principles, Engine Diagnostics theory, operation and repair of engines.

Program(s) of Study: Automotive

Courses Offered (Dual Enrollment with STC): Principles of Transportation Systems, Automotive Basics, Automotive Technology I: Maintenance and Light Repair, Automotive Technology II/Lab.

Certificates Available: Supervisor S/P2, Mechanical Safety S/P2, Mechanical Pollution Prevention S/P2, Automobile Engine Repair ASE, Automobile Electrical/Electronic Systems ASE, Automobile Maintenance and Light Repair ASE, Automobile Engine Performance ASE, Automobile Brakes ASE and Automobile Heating and Air Conditioning ASE.

Clubs: Skills USA

Example Occupations

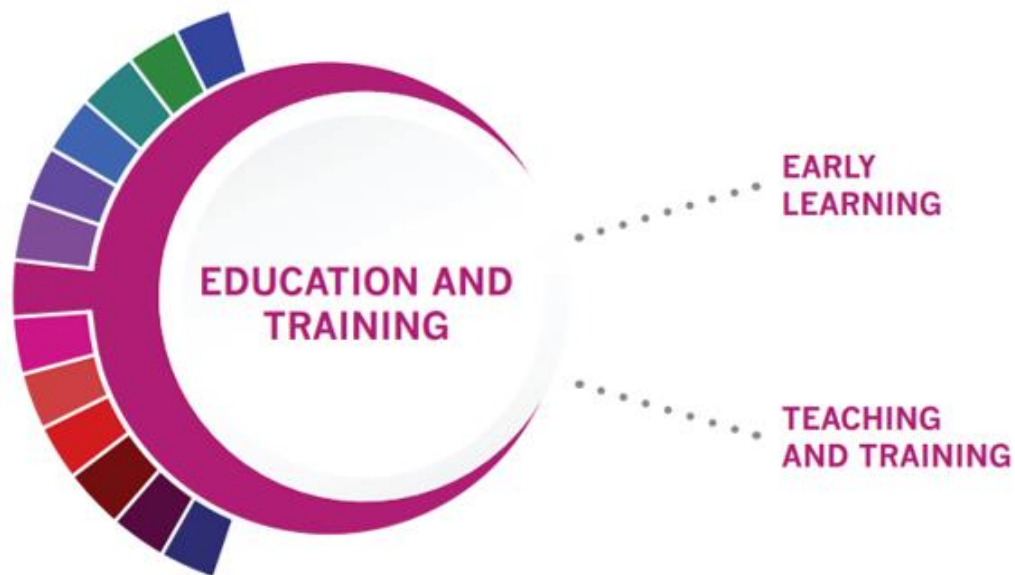
Transportation Manager
Fleet Manager
Auto Mechanic
Auto Body Mechanic
Auto Electrician
Vehicle/Systems Inspect
Railroad Safety Inspect.
Auto Parts Manager
Auto Shop Manager



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Updated: August 2022

Public Service Endorsement

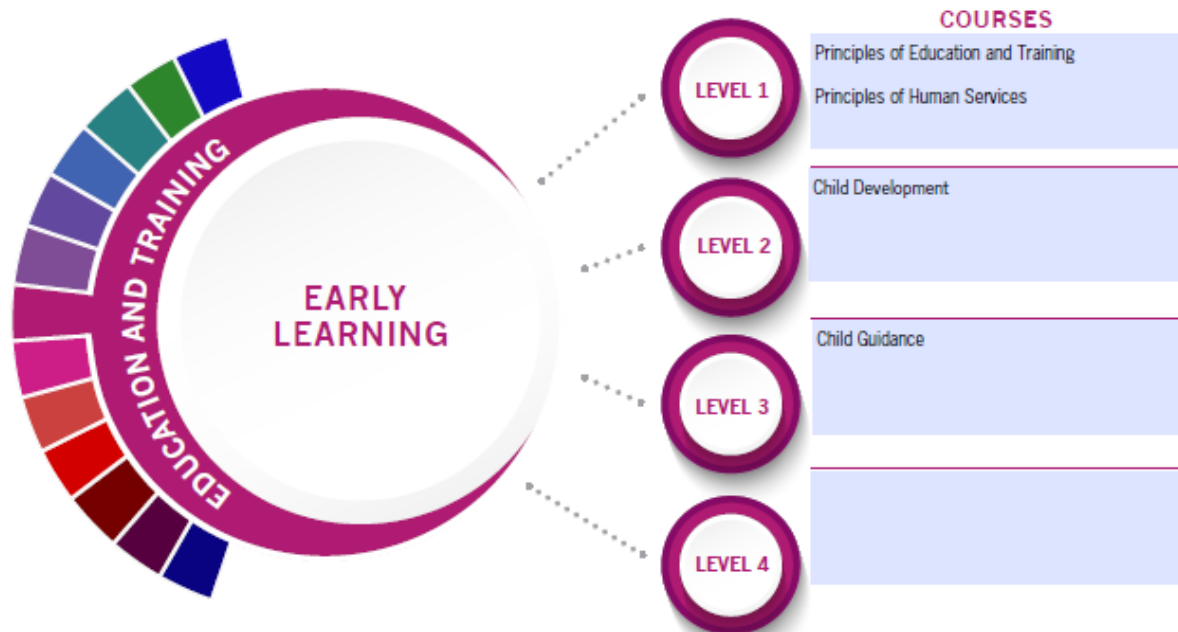
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Local Implementation Considerations:

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Child Development Associate		Early Childhood Education and Teaching			Kindergarten Teachers, except Special Education	\$53,310	1,848	17%
					Preschool Teachers	\$27,851	4,330	17%
Educational Aide I	Texas Educator Certification Program	Multicultural Early Childhood Development			Special Education Teachers, Preschool	\$55,670	148	27%
	County Librarian	Kindergarten/ Preschool Education and Training	Early Childhood	Educational, Instructional, and Curriculum Supervision	Elementary School Teachers	\$54,140	13,121	16%
	Professional Counselor	Psychology/Sociology		Educational Leadership and Administration	Education Administrators, Elementary and Secondary School	\$79,830	2,407	16%
					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
					Exploration Activities: Texas Association of Future Educators; Family, Career, & Community Leaders of America	Work Based Learning Activities: Teach a community education class; volunteer as a teaching assistant.		
Additional industry based certification information is available from the TEA CTE website.								
For more information on postsecondary options for this program of study, visit TXCTE.org								

The Early Learning program of study focuses on early childhood education, which consists of instructing and supporting preschool and early elementary school students in activities that promote social, physical and intellectual growth as well as in basic elements of science, art, music, and literature. This program of study introduces CTE concentrators to tasks necessary for planning, directing, and coordinating activities for young children.



Student Signature: _____ Date: _____
 Parent Signature: _____ Date: _____
 Counselor Signature: _____ Date: _____

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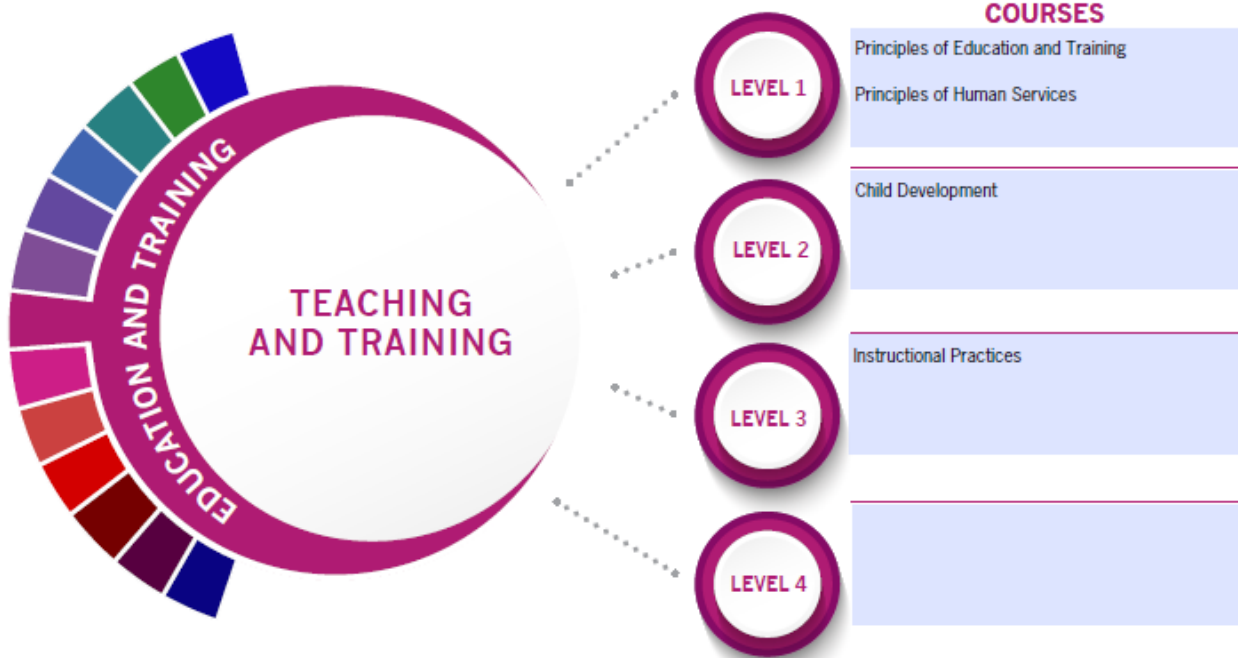
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Education and Training	13014200 (1 credit)	None	9-10
Principles of Human Services	13024200 (1 credit)	None	9-12
Child Development	13024700 (1 credit)	None	10-12
Child Development Associate Preparation Course	TBD	TBD	TBD
Child Guidance	13024800 (2 credits)	None	10-12
Practicum in Early Learning	TBD	TBD	TBD
Project Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE EDUCATION AND TRAINING CAREER CLUSTER, PLEASE CONTACT:

Debbie Wieland | Debbie.Wieland@tea.texas.gov

<https://tea.texas.gov/cte>



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Educational Aide I	Texas Educator Certification Program	Teacher Education	Bilingual and Multilingual Education	Instruction and Learning	Adult Basic and Secondary Education and Literacy Teachers and Instructors	\$48,069	862	17%
	Educational Instructional Technology	Education, General (or specific subject area)		Educational Leadership and Administration, General	Middle School Teachers, Except Special and Career/ Technical Education	\$54,510	6,407	15%
	Counselor, Professional	Special Education			Career and Technical Education Teachers, Secondary School	\$56,360	719	9%
	Athletic Trainer	Health and Physical Education/Fitness		Social and Philosophical Foundations of Education	Special Education Teachers, Secondary School	\$56,720	980	18%
Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
For more information on postsecondary options for this program of study, visit TXCTE.org.					Exploration Activities: Texas Association of Future Educators, or Family, Career and Community Leaders of America	Work Based Learning Activities: Teach a community education class; intern as a teaching assistant or tutor; serve as a camp counselor.		

The Teaching and Training program of study prepares students for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE concentrators 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.



Student Signature: _____ Date: _____
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 Counselor Signature: _____ Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Education and Training	13014200 (1 credit)	None	9-10
Principles of Human Services	13024200 (1 credit)	None	9-12
Human Growth and Development	13014300 (1 credit)	None	10-12
Child Development	13024700 (1 credit)	None	10-12
Communication and Technology in Education	TBD	TBD	TBD
Instructional Practices	13014400 (2 credits)	None	11-12
Special Populations	TBD	TBD	TBD
Practicum in Education and Training	13014500 (2 credits) 13014505 (3 credits) 13014510 (2 credits) 13014515 (3 credits)	PREQ: Instructional Practices	12
Project Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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ROMA HIGH SCHOOL

PUBLIC SERVICES ENDORSEMENT



**Education &
Training**

Teacher(s):

Ms. Renae C. Cervantes



Planning, managing, and providing education and training services, and related learning support services. Pathways include; Teaching / Training, Professional Support Services, and Administration & Administrative Support.

Program(s) of Study: Early Learning and Teaching & Training

Courses Offered: Principles of Education and Training, Child Development, Child Guidance, and Instructional Practices.

Program Highlights: Students conduct classroom observations, interact with students at all educational levels (Elementary, Middle School, and High School), create & conduct lessons, and dress professionally.

Certificates Available: Educational Aide I Certificate, Substitute Certificate (STC)

Clubs/Organizations: Texas Association of Future Educators (TAFE) and/or Family Career and Community Leaders of America (FCCLA)

Example Occupations

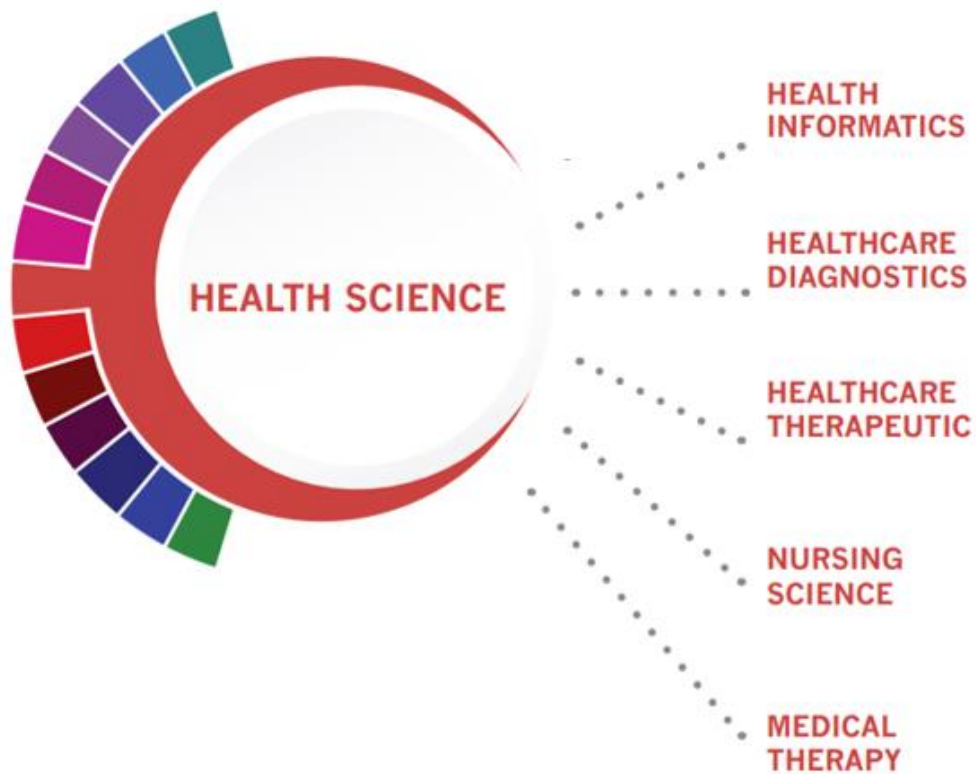
Superintendent
District Administrator
Principal
Teacher or Instructor
Pre-K/Kindergarten
Teacher
Social Worker
Counselor
Child Care Worker
Coach



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Updated: August 2022

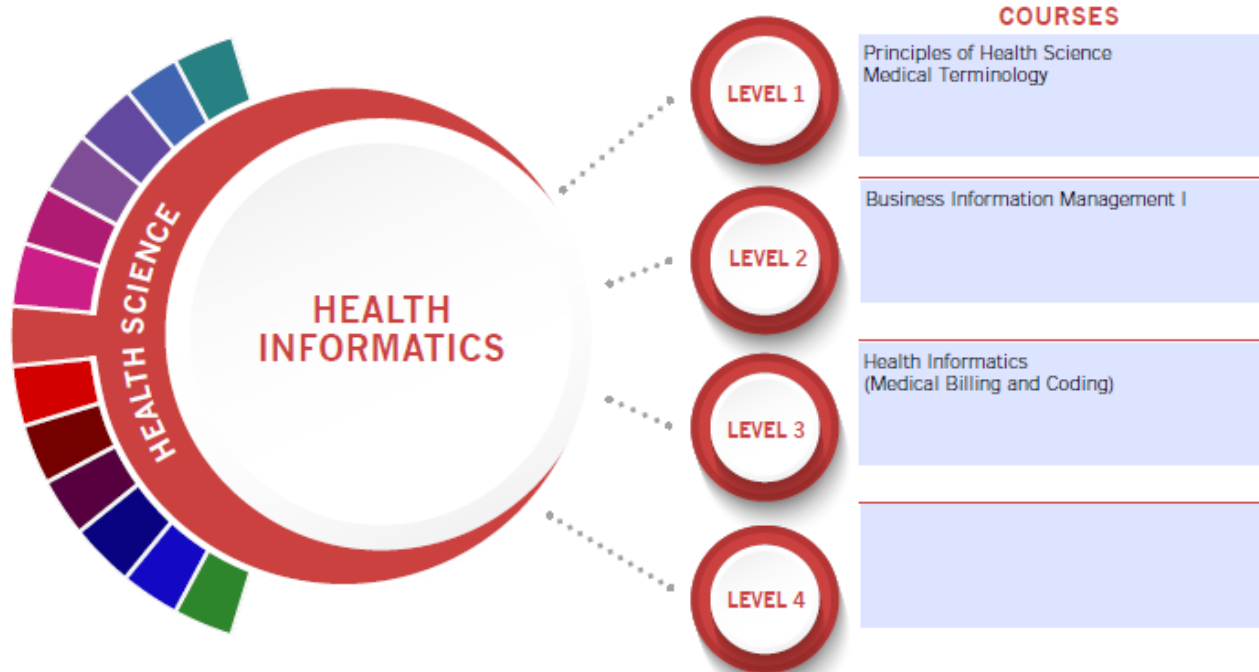
Public Service Endorsement



Local Implementation Considerations:

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Certified Coding Associate	Certified Professional in Informatics	Health Information/ Medical Records Technology/ Technician	Medical and Health Service Managers		Medical Records and Health Information Technicians	\$35,922	1,588	24%
Medical Coding and Billing Specialist	Medical Transcriptionist				Medical and Health Service Managers	\$93,995	2,562	29%
					Billing and Posting Clerks	\$35,485	5,775	25%
Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
For more information on postsecondary options for this program of study, visit TXCTE.org.					Exploration Activities: Health Occupations Students of America (HOSA)	Work Based Learning Activities: Volunteer at a community wellness center, hospital, assisted living center, or nursing home		

The Health Informatics program of study focuses on exposing students to the management and use of patient information in the healthcare field. Students may learn about and research recent modifications of computerized healthcare and the process of creating and maintaining hospital and patient records in accordance with regulatory requirements of the healthcare system. Students may also practice writing and interpreting medical reports.



Student Signature: _____
Parent Signature: _____
Counselor Signature: _____

Date: _____
Date: _____
Date: _____

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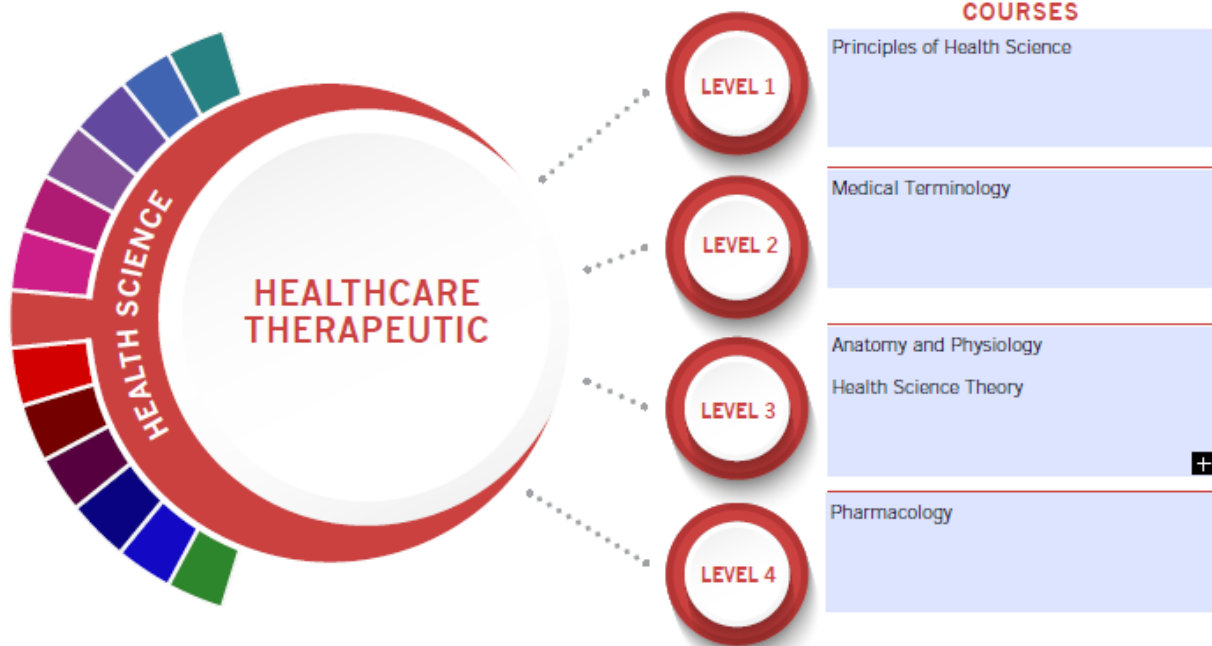
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Principles of Health Informatics	TBD	TBD	TBD
Business Information Management I/Lab	13011400 (1 credit) 13011410 (2 credits)	None	9-12
Medical Intervention and Evaluation	TBD	TBD	TBD
Health Informatics	13020960 (1 credit)	PREQ: Business Information Management I and Medical Terminology	11-12
Healthcare Information Systems and Management	TBD	TBD	TBD
Mathematics for Medical Professionals	13020970 (1 credit)	PREQ: Geometry and Algebra II	11-12
World Health Research	13020900 (1 credit)	PREQ: Biology and Chemistry	11-12
Project-Based Research	12701500 (1 credit)	None	11-12

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson | Kevin.Johnson@tea.texas.gov

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POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Registered Dental Assistant	Dental Assistant	Dental Hygienist		Dentist
Certified Patient Care Technician	Surgical Technologist			Physician Assistant
Certified Nurse Aide/Assistant	Medical Assistant	Medical/ Clinical Assistant		Family and General Practitioners
Pharmacy Technician	Pharmacy Aides			Pharmacist

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

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%
Dental Assistants	\$34,840	4,422	31%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

SkillsUSA
Health Occupation
Students of America
(HOSA)

Work Based Learning Activities:

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

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.



Student Signature: _____
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Counselor Signature: _____

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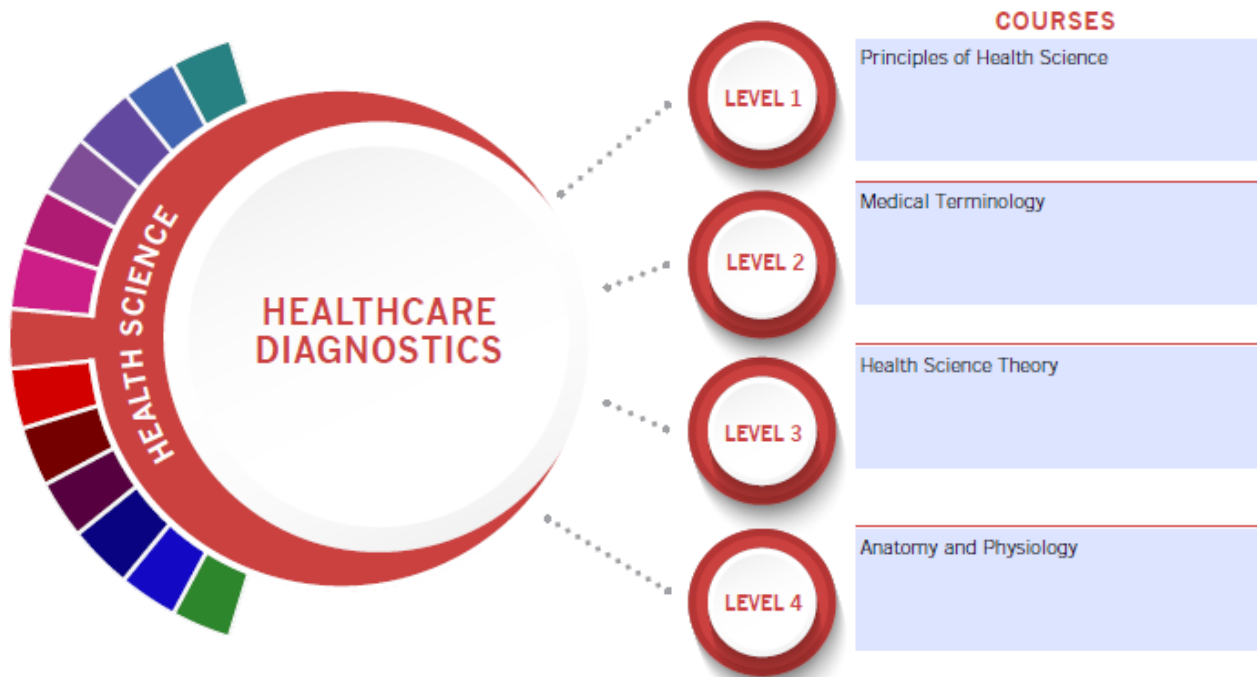
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Principles of Therapeutic Healthcare	TBD	TBD	TBD
Introduction to Pharmacy Science	TBD	TBD	TBD
Introduction to Dental Science	TBD	TBD	TBD
Medical Terminology	13020300 (1 credit)	None	9-12
Dental Anatomy and Physiology	TBD	TBD	TBD
Pharmacy I	TBD	TBD	TBD
Anatomy and Physiology	13020600 (1 credit)	PREQ: Biology and a second science credit	10-12
Health Science Theory	13020400 (1 credit) 13020410 (2 credits)	PREQ: Biology	10-12
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Pharmacy II	TBD	TBD	TBD
Medical Assistant	TBD	TBD	TBD
Dental Equipment and Procedures	TBD	TBD	TBD
Pathophysiology	13020800 (1 credit)	PREQ: Biology and Chemistry	11-12
Pharmacology	13020950 (1 credit)	PREQ: Biology and Chemistry	11-12
Practicum in Health Science	13020500 (2 credits) 13020505 (3 credits) 13020510 (2 credits) 13020515 (3 credits)	PREQ: Health Science Theory and Biology	11-12

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson | Kevin.Johnson@tea.texas.gov

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POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE S DEGREE	BACHELOR S DEGREE	MASTER S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Limited Licensed Radiology Technologist	Medical Sonographer	Nuclear Medical Technology/ Technologist		Radiologist	Diagnostic Medical Sonographers	\$69,909	495	35%
EKG/ ECG Technician	Radiologic Technologist	Magnetic Resonance Imaging (MRI) Technician/ Technician	Medical Radiologic Technology/ Science Radiation Therapist	Radiologic Technology/ Science - Radiographer	Phlebotomists	\$30,597	1,442	36%
Medical Laboratory Technician					Nuclear Medicine Technologists	\$75,962	91	13%
Phlebotomy Technician					Radiologic Technologists	\$55,494	1,196	19%
					Magnetic Resonance Imaging Technologists	\$68,661	217	21%
Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
For more information on postsecondary options for this program of study, visit TXCTE.org.					Exploration Activities: Health Occupation Students of America (HOSA)	Work Based Learning Activities: Clinical rotations at a community wellness center, hospital, assisted living, nursing home		

The Healthcare Diagnostics program of study introduces students to occupations and educational opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. This program of study may also include exploration into the opportunities associated with blood laboratories as well as radiologic technology, and ultrasonic technology.



Student Signature: _____
Parent Signature: _____
Counselor Signature: _____

Date: _____
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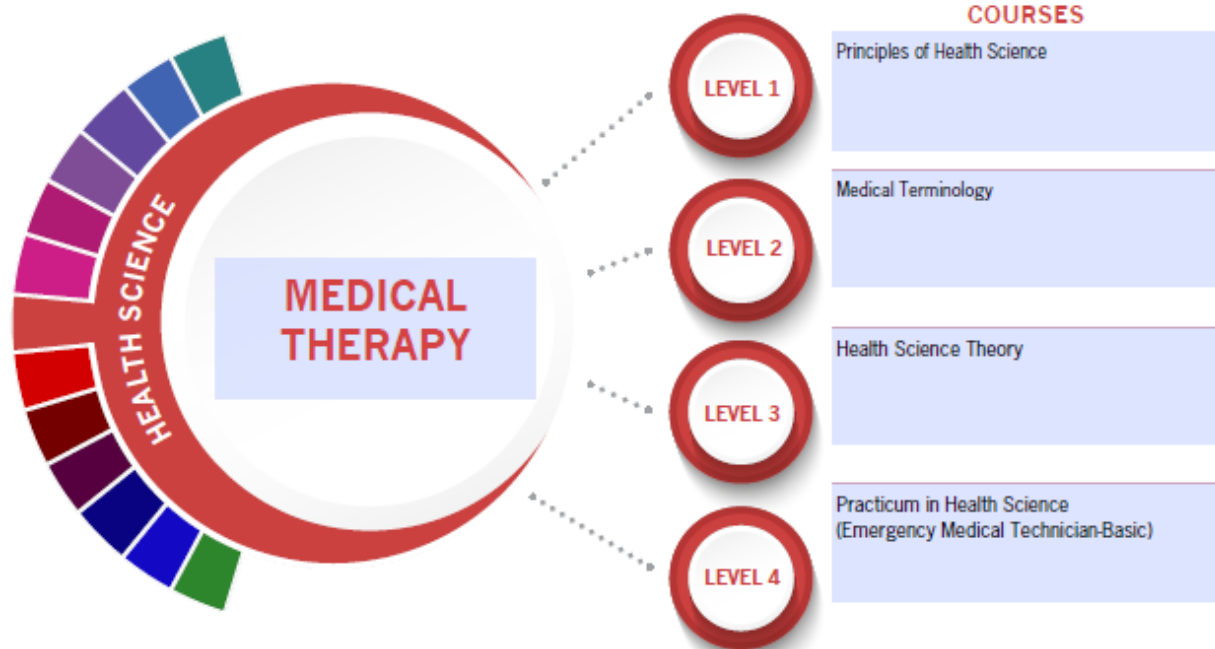
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Principles of Diagnostic Healthcare	TBD	TBD	TBD
Introduction to Imaging Technology	TBD	TBD	TBD
Medical Terminology	13020300 (1 credit)	None	9-12
Imaging and Technology I	TBD	TBD	TBD
Health Science Theory	13020400 (1 credit) 13020410 (2 credits)	PREQ: Biology	10-12
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Imaging Technology II	TBD	TBD	TBD
Anatomy and Physiology	13020600 (1 credit)	PREQ: Biology and a second science credit	10-12
Pathophysiology	13020800	PREQ: Biology and Chemistry	10-12
Practicum in Health Science	13020500 (2 credits) 13020505 (3 credits) 13020510 (2 credits) 13020515 (3 credits)	PREQ: Health Science Theory and Biology	11-12

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Kevin Johnson | Kevin.Johnson@tea.texas.gov

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POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Certification in Orthopedic Manual Therapy	Certified Respiratory Therapist	Occupational Therapy Assistant	Respiratory Therapists	Occupational Therapists	Speech Language Pathologists	\$73,070	1,068	25%
Limited Licensed Radiology Technologist	Certified Physical Therapy Assistant	Radiation Therapists		Speech Language Pathologist	Respiratory Therapists	\$57,429	17,493	20%
		Respiratory Therapists		Physical Therapists	Occupational Therapists	\$92,227	84	34%
		Physical Therapy Assistant			Physical Therapy Assistants	\$70,200	1,268	44%
					Radiation Therapists	\$70,658	101	23%
Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
For more information on postsecondary options for this program of study, visit TXCTE.org.					Exploration Activities: Health Occupation Students of America (HOSA)	Work Based Learning Activities: Lab internship Job shadow Clinical rotations		

The Medical Therapist program of study focuses on the study of biology and medicine in order to introduce students to the knowledge and skills necessary to be successful in the healthcare field in occupations such as, Respiratory, Occupational, Physical, or Speech Therapist. Students may also practice patient care and communication.



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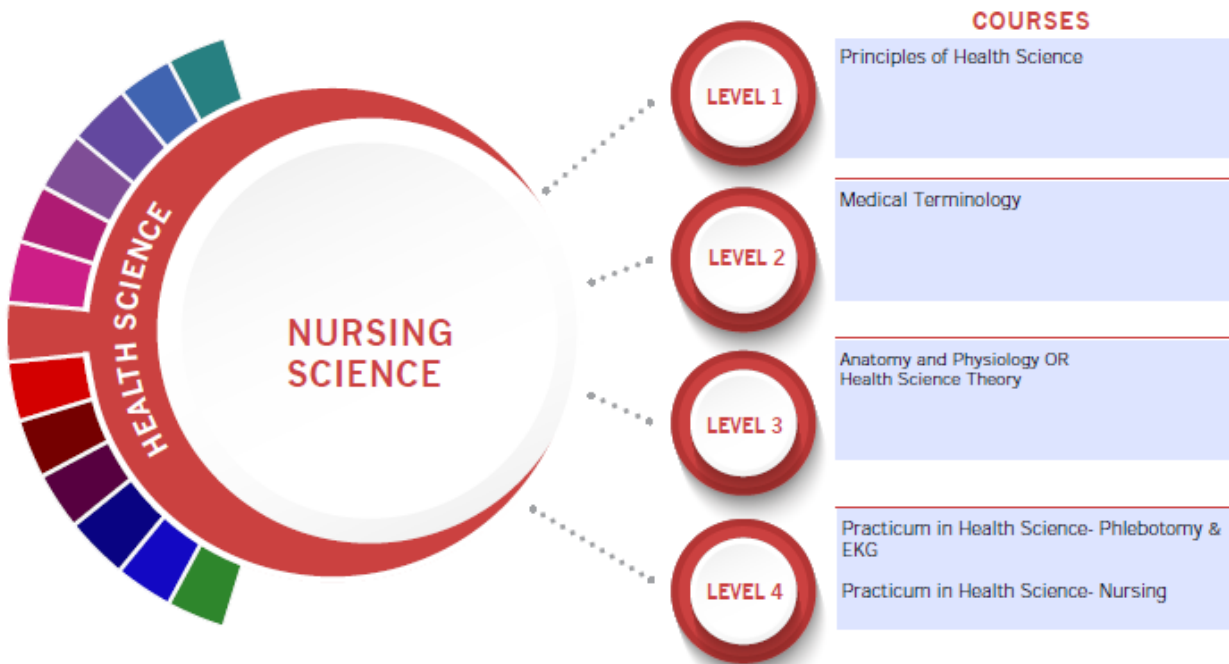
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Introduction to Speech Pathology and Audiology	N1302100 (1 credit)	None	10-12
Principles of Allied Health	TBD	TBD	TBD
Medical Terminology	13020300 (1 credit)	None	9-12
Speech and Language Development	N1302098 (1 credit)	None	11-12
Allied Health Therapeutic Service	TBD	TBD	TBD
Speech Communications Disorders	N1302099 (1 credit)	None	11-12
Health Science Theory	13020400 (1 credit) 13020410 (2 credits)TBD	PREQ: BiologyTBD	10-12TBD
Physical Therapy I	TBD	TBD	TBD
Occupational Therapy I	TBD	TBD	TBD
Radiation Therapy I	TBD	TBD	TBD
Respiratory Therapy I	TBD	TBD	TBD
Practicum in Health Science	13020500 (2 credits) 13020501 (2 credits) 13020502 (2 credits) 13020503 (2 credits)	PREQ: Health Science Theory and Biology	11-12
Occupational Therapy II	TBD	TBD	TBD
Physical Therapy II	TBD	TBD	TBD
Radiation Therapy II	TBD	TBD	TBD
Respiratory Therapy II	TBD	TBD	TBD

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson | kevin.johnson@tea.texas.gov

<https://tea.texas.gov/cte>



POSTSECONDARY OPTIONS

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Certified Medical Assistant	Licensed Vocational Nurse	Registered Nursing/Registered Nurse	Informatics Nurse Specialists	Nurse Practitioner	Licensed Vocational Nurses	\$45,178	7,186	21%
Certified Nurse Aide/Assistant				Nursing Administration	Registered Nurses	\$68,682	17,493	26%
Certified Patient Care Technician				Nurse Anesthetist	Nurse Practitioners	\$107,827	977	50%
					Nurse Anesthetists	\$154,856	357	23%
Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
For more information on postsecondary options for this program of study, visit TXCTE.org.					Exploration Activities: Health Occupation Students of America (HOSA)	Work Based Learning Activities: Volunteer at a community wellness center, hospital, assisted living center, or nursing home.		

The Nursing Program of Study introduces students to knowledge and skills related to patient care. CTE concentrators may learn about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management. Students may focus on the healthcare system and research system designs and make recommended modifications.



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 Parent Signature: _____ Date: _____
 Counselor Signature: _____ Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Principles of Nursing	TBD	TBD	TBD
Medical Terminology	13020300 (1 credit)	None	9-12
Science of Nursing	TBD	TBD	TBD
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Anatomy and Physiology	13020600 (1 credit)	PREQ: Biology and a second science credit	10-12
Clinical Ethics	TBD	TBD	TBD
Leadership and Management in Nursing	TBD	TBD	TBD
Pathophysiology	13020800 (1 credit)	PREQ: Biology and Chemistry	11-12
Pharmacology	13020950 (1 credit)	PREQ: Biology and Chemistry	11-12
Practicum in Nursing	TBD	TBD	TBD

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson | Kevin.Johnson@tea.texas.gov

<https://tea.texas.gov/cte>



Teacher(s):

Mr. Milton Barrera
Mr. Jorge Pedraza
Ms. Alissa Peña
Mr. Hector Barrera
Ms. Esmeralda Tamez



Example Occupations

Pharmacist
 Physician
 Medical Assistant
 Paramedic (EMT)
 Nurse
 Dentist
 Medical Transcriptionist
 Medical Billing
 Physical Therapist

ROMA HIGH SCHOOL

PUBLIC SERVICES ENDORSEMENT



Health Science

The Health Science cluster includes planning, managing and providing therapeutic services, diagnostic services, health informatics, support services, and/or biotechnology research and development. This cluster allows students to investigate and observe a variety of health care areas.

Program(s) of Study: Health Informatics, Healthcare Diagnostics, Healthcare Therapeutic, Nursing Science, and Medical Therapy.

Courses Offered: Principles of Health Science, Health Science Theory, Anatomy & Physiology, Medical Terminology, Pharmacology, Health Informatics for Medical Billing & Coding and Practicum in Health Science. Also available is the Dual Enrollment Medical Sciences Academy (DEMSA) through South Texas College.

Program Highlights: Students learn about Human Anatomy and Physiology and the basics of Health Care.

Certificates Available: Certified Pharmacy Technician, Medical Billing and Coding Certificate, and Patient Care Technician (PCT) Certificate (which includes CNA, Phlebotomy and EKG).

Clubs: HOSA (Future Health Professionals of America)



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Updated: August 2022

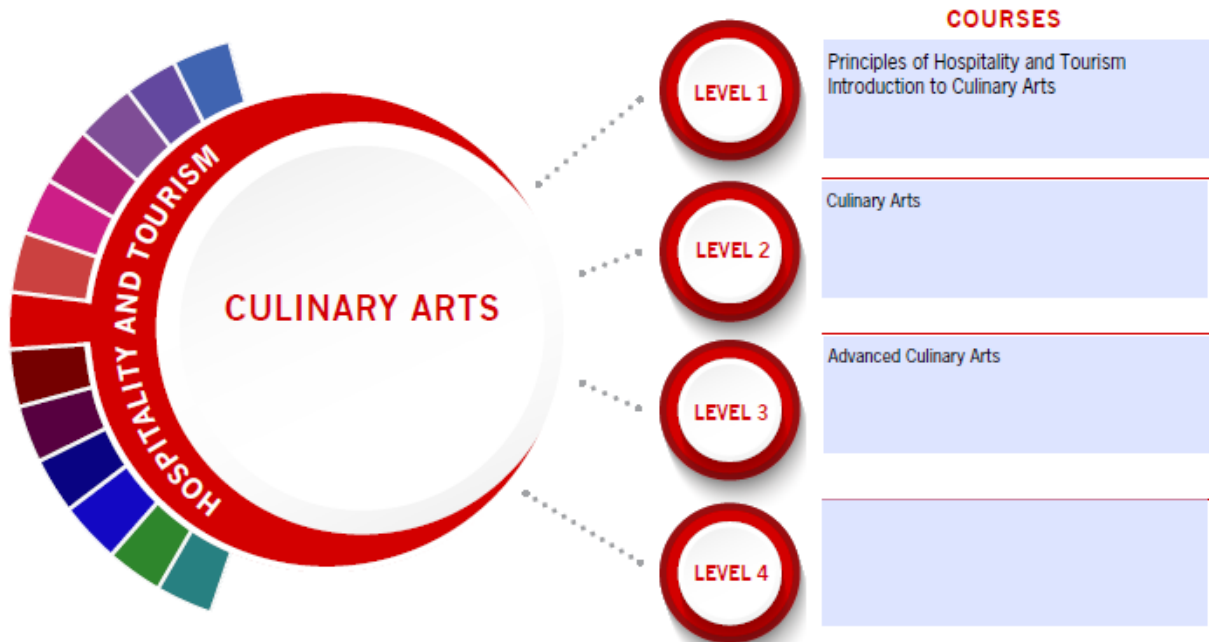
Public Service Endorsement



Local Implementation Considerations:

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Certified Fundamentals Cook	Certified Chef	Hotel and Restaurant Management			Food Service Managers	\$55,619	1,561	28%
Certified Fundamentals Pastry Cook	Foodservice Management Professional	Restaurant Culinary and Catering Management	Food Service Systems Administration/Management		Chef and Head Cooks	\$43,285	1,366	25%
ServSafe Manager	Comprehensive Food Safety	Hospitality Administration/Management, General			Food Science Technicians	\$34,382	236	11%
ManageFirst Professional	Certified Food and Beverage Executive	Culinary Arts/ Chef Training	Culinary Science and Food Service Management	Business Administration Management, General	Food and Beverage Managers	\$55,619	1,561	28%
Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
For more information on postsecondary options for this program of study, visit TXCTE.org.					Exploration Activities:	Work Based Learning Activities:		
					Family, Career, Community Leaders of America (FCCCLA), SkillsUSA, American Culinary Federation, Texas Restaurant Association	Plan a catering event or work for a catering company; participate in a cooking course; work in a restaurant; cook at home		

The Culinary Arts program of study introduces students 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.



Student Signature: _____
Parent Signature: _____
Counselor Signature: _____

Date: _____
Date: _____
Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Introduction to Culinary Arts	13022550 (1 credit)	None	9-12
Principles of Hospitality and Tourism	13022200 (1 credit)	None	9-12
Culinary Arts	13022600 (2 credits)	None	10-12
Foundations of Restaurant Management	TBD	TBD	TBD
Advanced Culinary Arts	13022650 (2 credits)	PREQ: Culinary Arts	10-12
Food Science	13023000 (1 credit)	PREQ: 3 units of science, including Chemistry and Biology	11-12
Practicum in Culinary Arts	13022700 (2 credits) 13022705 (3 credits) 13022710 (2 credits) 13022715 (3 credits)	PREQ: Culinary Arts	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

**FOR ADDITIONAL INFORMATION ON THE HOSPITALITY AND TOURISM
CAREER CLUSTER, PLEASE CONTACT:**

Debbie Wieland | Debbie.Wieland@tea.texas.gov

<https://tea.texas.gov/cte>



Teacher(s):

Mrs. Guadalupe Ramirez



Example Occupations

Chef
 *Restaurant/Food
 Service Manager
 *Hotel/Motel/Resort
 Manager
 *Meeting/Convention
 Planner
 Interpreter/Translator
 Tourism Services

ROMA HIGH SCHOOL

PUBLIC SERVICE ENDORSEMENT



Hospitality & Tourism

The Hospitality & Tourism cluster prepares students for employment in career pathways that relate to management, marketing and operations of restaurants and other food services, lodging, attractions, recreation and travel services. This cluster allows students to investigate and observe a variety of Hospitality & Tourism careers and services.

Program(s) of Study: Culinary Arts

Courses Offered: Introduction to Culinary Arts, Culinary Arts, Advanced Culinary Arts.

Program Highlights: Students prepare for family life, work life, and careers in the areas of Lodging, Recreation, Amusement, and Attractions, Restaurants and Food & Beverage Services, Travel and Tourism, and Nutrition and Food Production and Service.

Certificates Available: ServSafe Food Handlers Certificate, ServSafe Manager, and Certified Fundamentals- Pastry Cook

Clubs: Family, Career, and Community Leaders of America (FCCLA)



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Updated: August 2022

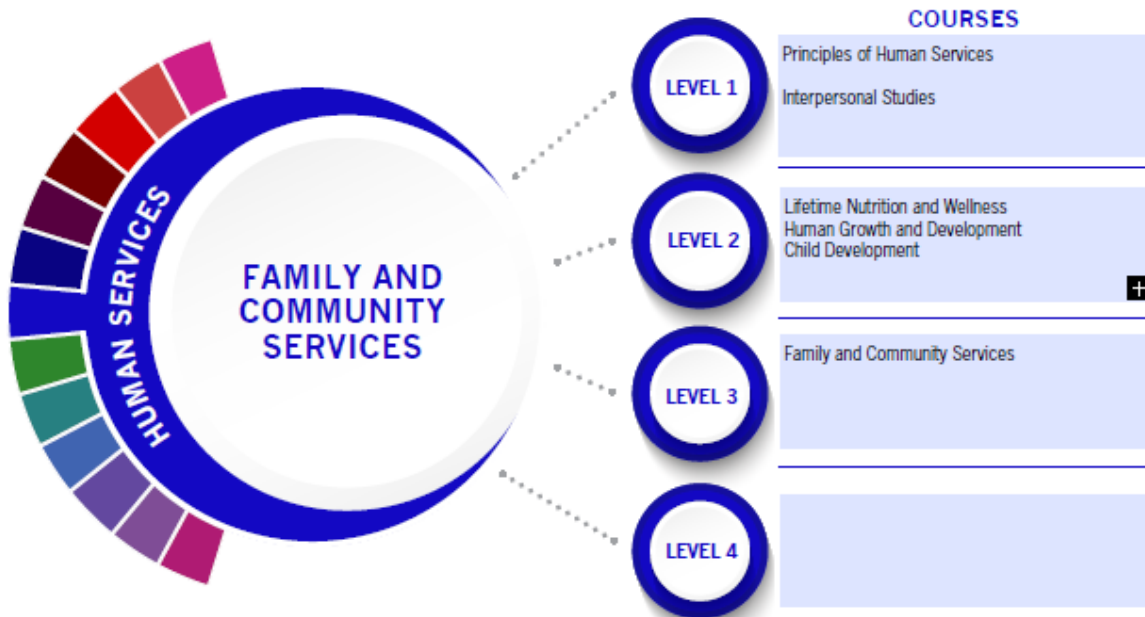
Public Service Endorsement



Local Implementation Considerations:

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Community Health Worker	Human Development and Family Studies	Human Development and Family Studies		
Certified Associate in Project Management	Community Health Services/ Liaison/ Counseling	Human Services/Sciences, General		Marriage and Family Therapy/ Counseling
	Distance Credentialed Counselor	Family and Consumer Sciences		Human Services/ Sciences
	Educator Certification in Family and Consumer Sciences	Community Health Services	Child and Family Services	Family Studies

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Child, Family, and School Social Workers	\$41,350	2,221	17%
Social and Community Services Managers	\$65,146	608	33%
Marriage and Family Therapists	\$42,266	217	35%
Social and Human Service Assistants	\$32,448	2,822	25%
Mental Health and Substance Abuse and Behavioral Disorder Counselors	\$42,120	576	39%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
American Association of Family and Consumer Sciences, Family, Career and Community Leaders of America

Work Based Learning Activities:
Volunteer at a community center; intern for a community non-profit organization

The Family and Community Services program of study introduces students to knowledge and skills related to social services, including child and human development and consumer sciences. CTE concentrators may learn about or practice managing social and community services or teaching family and consumer sciences. Students may follow career paths in social work or therapy for children, families, or school communities.



Student Signature: _____ Date: _____
 Parent Signature: _____ Date: _____
 Counselor Signature: _____ Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITE (PREQ) COREQUISITE (CREQ)	GRADE
Principles of Human Services	13024200 (1 credit)	None	9-12
Professional Communications	13009900 (.5 credit)	None	9-12
Interpersonal Studies	13024400 (.5 credit)	None	9-12
Dollars and Sense	13024300 (.5 credit)	None	11-12
Principles of Community Services	TBD	TBD	TBD
Lifetime Nutrition and Wellness	13024500 (.5 credit)	None	9-12
Human Growth and Development	13014300 (1 credit)	None	10-12
Child Development	13024700 (1 credit)	None	10-12
Social and Community services (TBD)	TBD	TBD	TBD
Counseling and Mental Health	13024600 (1 credit)	None	11-12
Family and Community Services	13024900 (1 credit)	None	10-12
Practicum in Human Services	13025000 (2 credits) 13025005 (3 credits) 13025010 (2 credits) 13025015 (3 credits)	None	11-12
Practicum in Entrepreneurship (TBD)	TBD	TBD	TBD
Project-Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE HUMAN SERVICES CAREER CLUSTER, PLEASE CONTACT:

Debbie Wieland | Debbie.Wieland@tea.texas.gov

<https://tea.texas.gov/cte>



Teacher(s):

Mrs. Emily Flores

Ms. Mirna Mendiola



Example Occupations

Child Care Worker
Social Services Worker
Counselor/Therapist
Dietitian
Cosmetologist
Preschool Teacher
Parent Educator
Sociologist
Recreation Worker

ROMA HIGH SCHOOL

PUBLIC SERVICES ENDORSEMENT



Human Services

The Human Services cluster prepares students for employment in career pathways that relate to families and human needs. This cluster allows students to investigate and observe a variety of human service areas.

Program(s) of Study: Family and Community Services

Courses Offered: Principles of Human Services, Child Guidance, Child Development, and Family & Community Services.

Program Highlights: Students prepare for family life, work life, and careers in the areas of Early Childhood Education, Human Development, Social Services, and Personal Care and Consumer Services.

Certificates Available: Customer Services Certificate, Frontline Supervisor Certificate, and Employability Skills Certificate.

Clubs: Family and Consumer Services (FACS) and FCCLA



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Updated: August 2022

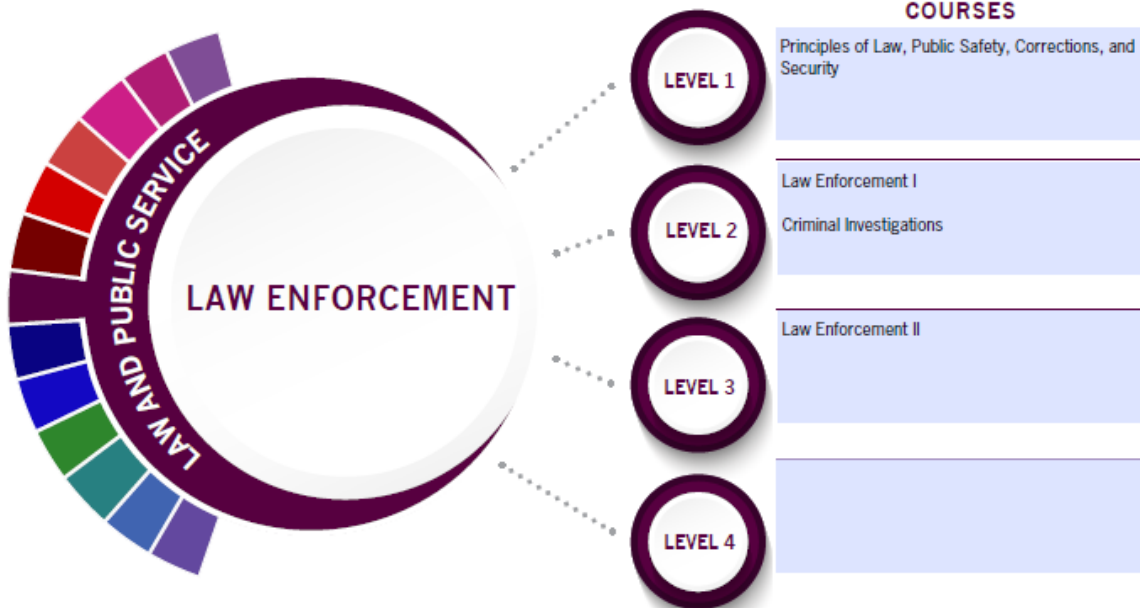
Public Service Endorsement



Local Implementation Considerations:

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Non-Commissioned Security Officer Level II	Law Enforcement Officer	Criminal Justice/Safety Studies/Law Enforcement Administration		
	Private Investigator/Security Guard	Criminal Justice/Police Science		
	Code Enforcement Officer	Corrections	Juvenile Corrections	
	Certified Law Enforcement Planner	Criminalistics and Criminal Science	Cyber/Computer Forensics and Counterterrorism	Natural Resources Law Enforcement and Protective Services

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

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%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Texas Public Service Association;
criminal justice clubs

Work Based Learning Activities:
Attend court hearings and other legal procedures.

The Law Enforcement program of study teaches students about the development of, adherence to, and protection of various branches of law. Students may 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.



Student Signature: _____ Date: _____
 Parent Signature: _____ Date: _____
 Counselor Signature: _____ Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Law, Public Safety, Corrections, and Security	13029200 (1 credit)	None	9-12
Law Enforcement I	13029300 (1 credit)	None	10-12
Federal Law Enforcement and Protective Services	13029800 (1 credit)	None	10-12
Criminal Investigation	13029550 (1 credit)	None	10-12
Law Enforcement II	13029400 (1 credit)	None	10-12
Correctional Services	13029700 (1 credit)	None	10-12
Forensic Psychology	N1303012 (1 credit)	None	11-12
Counseling and Mental Health	13024600 (1 credit)	None	11-12
Forensic Science	13029500 (1 credit)	PREQ: Biology and Chemistry	11-12
Practicum in Law, Public Safety, Corrections, and Security	13030100 (2 credits) 13030105 (3 credits) 13030110 (2 credits) 13030115 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE LAW AND PUBLIC SERVICE
CAREER CLUSTER, PLEASE CONTACT:

Dale Fowler | Dale.Fowler@tea.texas.gov

<https://tea.texas.gov/cte>



Teacher(s):

Officer Rene Garza
Officer Jose Rocha



Example Occupations

Judge
Attorney
Police Officer
Correctional Officer
Probation/Parole Officer
Immigration/Border Patrol
Firefighter/EMT/Dispatch
Loss Prevention Specialist
Security Officer

ROMA HIGH SCHOOL

PUBLIC SERVICES ENDORSEMENT



**Law,
Public Safety,
Corrections
& Security**

Thousands of challenging educational and training opportunities are offered in the highly skilled Law and Public Service Cluster. These opportunities continue to expand in the areas of corporate, industrial, homeland security and public safety.

Program(s) of Study: Law Enforcement

Courses Offered: Principles of Law, Public Safety, Corrections & Security, Law Enforcement I, Law Enforcement II, and Criminal Investigations.

Program Highlights: Students in Law, Public Safety, Corrections & Security learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and two-year college programs to four-year college and graduate programs.

Certificates Available: Non-Commissioned Security Officer Level II Certificate

Clubs: Skills USA



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Updated: August 2022

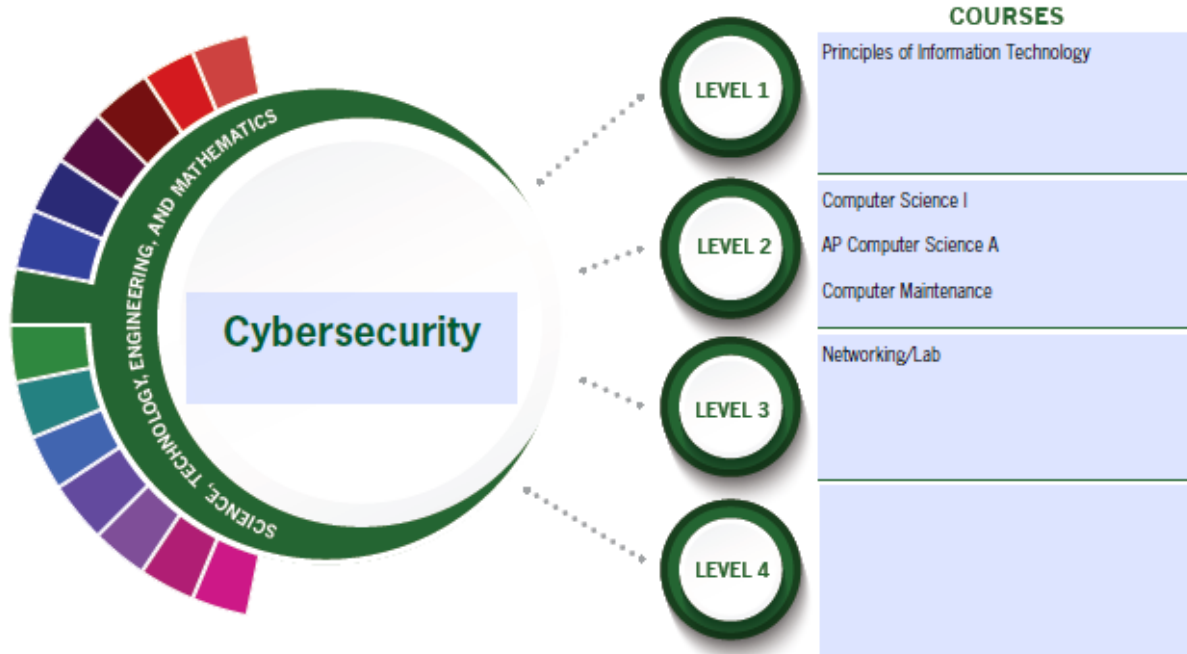
STEM Endorsement



Local Implementation Considerations:

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Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal accountability reporting.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Oracle Certified Associate Java SE 8	GIAC Reverse Engineering Malware	System Networking, and LAN/WAN Management	Computer Systems Networking and Telecommunications	Computer Systems Analysis/Analyst	Information Security Analysts	\$91,915	814	29%
Oracle Certified Database Associate	Certified Advanced Windows Forensic Examiner	Information Technology	Computer Systems Networking and Telecommunications	Information Technology	Network and Computer System Administrators	\$82,597	2,814	19%
Cisco Certified Entry Networking Technician (CCENT)	SAP Certified Technology Professional System Security Architect	Computer and Information Sciences, General			Computer Systems Analyst	\$87,568	5,937	29%
Associate of (ISC)2	Cisco Certified Network Professional Security Certification	Computer Science						
Additional industry based certification information is available from the TEA CTE Website								
For more information on postsecondary options for this program of study, visit TXCTE.org.								

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	Work Based Learning Activities:
Join TSA Job shadow a computer system analyst or information security analyst.	Obtain an industry based certification.

The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.



Student Signature: _____	Date: _____
Parent Signature: _____	Date: _____
Counselor Signature: _____	Date: _____

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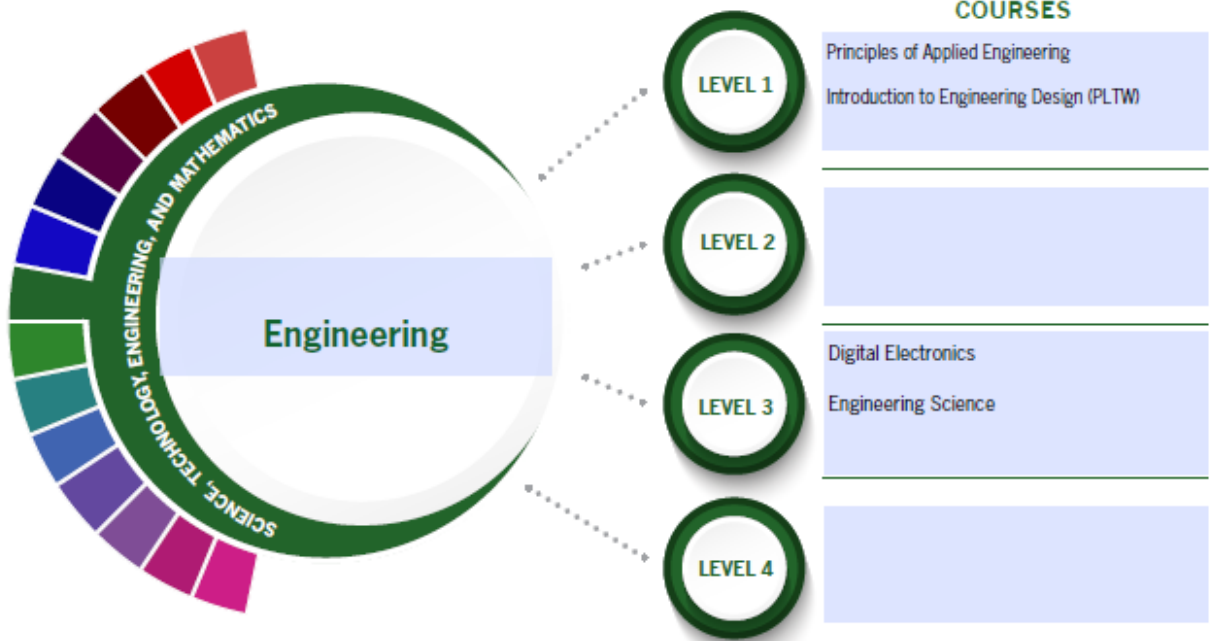


COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Information Technology	13027200 (1 credit)	None	9-10
Fundamentals of Computer Science	03580140 (.5 to 1 credit)	None	9-12
Foundations of Cybersecurity	03580850 (1 credit)	None	9-12
Internetworking Technologies I	N1302803 (1 credit)	None	10-12
Computer Programming I	13027600 (1 credit)	None	10-12
Computer Science I	03580200 (.5 to 1 credits)	PREQ: Algebra I	9-12
AP Computer Science Principles	A3580300 (1 credit)	None	9-12
Computer Maintenance	13027300 (1 credit) 13027310 (2 credits)	None	10-12
Internetworking Technologies II	N1302804 (1 credit)	PREQ: Internetworking Technologies I	11-12
Engineering Applications of Computer Science Principles	N1303772 (1 credit)	None	10-12
Networking/Lab	13027400 (1 credit) 13027410 (2 credits)	None	10-12
Digital Forensics	03580360 (.5 to 1 credit)	None	9-12
AP Computer Science A	A3580110 (1 credit) A3580120 (1 credit)	None	9-12
Cybersecurity Capstone	03580855 (1 credit)	None	11-12
Practicum in Information Technology	13028000 (2 credit) 13028005 (3 credit) 13028010 (2 credit) 13028015 (3 credit)	PREQ: Two high school Information Technology courses	12
Practicum in STEM	13037400 (2 credits) 13037410 (2 credits) 13037405 (3 credits) 13037415 (3 credits)	PREQ: Algebra I and Geometry	12
Project-Based Research	12701500 (1 credit)	None	11-12

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY,
ENGINEERING AND MATHEMATICS CAREER CLUSTER, PLEASE CONTACT:

<https://tea.texas.gov/cte>



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified Professional or User (ACU) - Inventor	Engineer, Professional	Electrical and Electronics Engineering	Electrical and Electronics Engineering	Electrical and Electronics Engineering
Certified SolidWorks Associate (CSWA)	Fluid Power Systems Designer	Drafting and Design Technology/ Technician, General	CAD/CADD Drafting and/or Design Technology/ Technician	Mechanical Engineering
Certified Engineering Technician - Audio Systems	Certified Biomedical Auditor	Engineering Technology	Bioengineering and Biomedical Engineering	Bioengineering and Biomedical Engineering
	Certified Cost Estimator/ Analyst		Construction Engineering Technology/ Technician	

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Aerospace Engineers	\$110,843	481	9%
Industrial Engineers	\$97,074	1,263	10%
Mechanical Engineers	\$91,707	1,535	11%
Chemical Engineers	\$112,819	474	9%
Electrical Engineers	\$98,405	1,137	10%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Participate in competitions like Skills USA

Career Preparation Activities:
Engineering internship
Job shadow a machinist

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



Student Signature: _____

Parent Signature: _____

Counselor Signature: _____

Date: _____

Date: _____

Date: _____

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COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Applied Engineering	13036200 (1 credit)	None	9-10
Computer Aided Drafting for Manufacturing (TBD)	TBD	TBD	TBD
Introduction to Engineering Design (PLTW)	N1303742 (1 credit)	None	9-12
Manufacturing Engineering Technology I	13032900	None	10-12
Engineering Design & Development (PLTW)	N1303749 (1 credit)	None	9-12
Engineering Design & Presentation I	13036500 (1 credit)	PREQ: Algebra I	10-12
Computer Integrated Manufacturing (PLTW)	N1303748 (1 credit)	None	9-12
Aerospace Engineering (PLTW)	N1303745 (1 credit)	None	9-12
Digital Electronics	13037600 (1 credit)	PREQ: Algebra I and Geometry	10-12
Civil Engineering & Architecture (PLTW)	N1303747 (1 credit)	None	9-12
Engineering Science	13037500 (1 credit)	PREQ: Algebra I and Biology Chemistry, Integrated Physics, and Chemistry (IPC), or Physics	10-12
Environmental Sustainability (PLTW)	N1303746 (1 credit)	None	9-12
Engineering Design & Problem Solving	13037300 (1 credit)	PREQ: Algebra I and Geometry	11-12
Engineering Design and Presentation II	13036600 (2 credits)	PREQ: Algebra I and Geometry	11-12
Practicum in Science, Technology, Engineering, and Mathematics	13037400 (2 credits) 13037405 (2 credits) 13037410 (3 credits) 13037415 (3 credits)	PREQ: Algebra I and Geometry	12
Scientific Research & Design	13037200 (1 credit)	PREQ: Biology, Chemistry, Integrated Physics, and Chemistry (IPC), or Physics	11-12

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CAREER CLUSTER, PLEASE CONTACT:

<https://tea.texas.gov/cte>



Teacher(s):

Mr. Macario Guerra
Mr. Berry Nall



Example Occupations

- *Biologist
- *Chemist
- *Mathematician
- *Statistician
- *Engineer: Aerospace, Industrial, Biotechnology, Chemical, Marine, Civil, and Petroleum
- *Architecture

ROMA HIGH SCHOOL

STEM ENDORSEMENT



**Science,
Technology,
Engineering &
Mathematics**

The STEM cluster is for students who are eager to be prepared to imagine, design and build. Students who excel in this cluster are very curious, like to solve problems, like using clues to find solutions, like to take things apart to see how they work, ask a lot of questions, are critical thinkers and have a lot of creativity.

Program(s) of Study: Engineering and Cybersecurity

Courses Offered: Introduction to Engineering Design (PLTW), Principles of Applied Engineering, Digital Electronics, Robotics, and Engineering Your World (UT).

Program Highlights: In Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, digital electronics and circuit design, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers. The courses are project based, so that students spend more time working on activities and less time sitting at their desks listening to lectures.

Certificates Available: ISCET Associate- Level Certified Electronics Technician (CET)

Clubs: Robotics Club

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Updated: April 2021

CTE Clusters (Brief Overview):

1. Agriculture, Food and Natural Resources

The people who work in the cluster include farmers and ranchers tending Texas crops and livestock; utility operators providing oil, electricity, and natural gas; and conservationists protecting wilderness and wildlife. They put food on our tables and turn raw materials into products we all use. For students and workers in Agriculture, Food & Natural Resources, the earth is one giant classroom full of natural wonders to explore. If you love to be outdoors, enjoy caring for plants and animals, and want to help conserve our natural resources, then Agriculture, Food & Natural Resources could be the right career cluster for you. This program of study is part of the Business and Industry endorsement.

Source: AchieveTexas in Action: Agriculture, Food & Natural Resources ©2010 by the Texas Education Agency.

2. Architecture and Construction

Look around you. You are likely inside a room in a building, maybe your school. You are in a structure that started with an idea in an architect's head. He or she imagined how tall it would be, how many rooms it would hold, where the walls and doorways would stand. The architect drew up plans that guided teams of people as they went about constructing the building—plumbers, electricians, masons, roofers, framers, and so on. And now that the building is finished, another team of people manage and maintain it, keeping equipment up and running, the spaces clean and organized, and the windows glistening. These are the people who work in the Architecture & Construction cluster. If you like to design and build things, tinker with tools and technology, or decorate homes and offices with flooring, paint, furniture, and art, then Architecture & Construction could be the right career cluster for you. This program of study is part of the Business and Industry endorsement.

Source: Achieve Texas in Action: Architecture and Construction ©2010 by the Texas Education Agency.

3. Arts, A/V Technology and Communication

Whether it is music, painting, drawing, sculpting, writing, dancing, or any other genre, artistic expression is all around us—on TV and radio, at the movies, in art galleries, on the Web, in our MP3 players. People who work in the Arts, A/V Technology & Communications cluster may entertain and inform through an ever-growing array of new media forms such as cell phone ringtones, text messaging, and shared online videos. A world of audio-visual (A/V) technology and communications professionals—including producers and directors, print and electronic journalists, website designers, video game programmers, and multimedia artists—makes it all possible. If you have a calling to be creative, yearn to express yourself, or love using new technologies, then Arts, A/V Technology & Communications may be the right career cluster for you. This program of study is part of the Business and Industry endorsement.

Source: AchieveTexas in Action: Arts, A/V Technology and Construction ©2010 by the Texas Education Agency.

4. Business, Finance & Marketing

Business touches everything in our world. It's behind the food we eat, the vehicles we drive, the clothes we wear—every product or service we consume is the result of a business somewhere organizing the people, money, materials, and other resources to deliver that product or service to us. From chief executive officers (CEO's) overseeing worldwide organizations of hundreds of thousands of workers to receptionists answering phones, well-educated employees make businesses run more smoothly and profitably. If you see yourself managing teams of people to get projects done, crunching numbers to keep costs down, or becoming an entrepreneur and starting your own venture, then Business could be the right career cluster for you. This program of study is part of the Business and Industry endorsement.

Source: AchieveTexas in Action: Business Management and Administration ©2010 by the Texas Education Agency.

Money makes the World go round—and there is plenty of it in Texas. In fact, if our state were its own country, it would be the 15th-largest economy in the World, ranking right between Spain and South Korea. There are about 750 banks in Texas and thousands more brokerage, financial-service, insurance, and accounting firms. Professionals who work in these companies manage investments and make loans, pay for storm damage, sell bonds and stock ATMs with cash, and more. If you are good at numbers, want to play the stock market, or enjoy working with the public, then Finance could be the right career cluster for you. This program of study is part of the Business and Industry endorsement.

Source: AchieveTexas in Finance and Marketing ©2010 by the Texas Education Agency.

5. Education & Training

Would you like to get paid to help others learn new things? Planning, managing, and providing education and training services, and related learning support services are what encompasses the Education and Training cluster. Education and training workers guide and train people. As a teacher, you could influence young lives. You could also support the work of a classroom teacher as a counselor, librarian, or principal. You could coach sports activities or lead community classes. You could also work with adults. For example, you may lead training to employees in a business. Or you could work as a university professor for undergraduate or graduate students. This program of study is part of the Public Service endorsement.

Source: Achieve Texas in Education & Training ©2010 by the Texas Education Agency.

6. Health Science

Everyone needs health care. From newborns to seniors, Texans require professionals who are experts at diagnosing and treating disease, using medical technologies, and providing preventive care. Although everyone thinks of doctors and nurses when they contemplate careers in health care, there are hundreds of other specialties available in the Health Science cluster, including technicians, skilled support personnel, dentists, and scientists. In fact, a typical medical center is a giant business with employees as varied as aides and CEOs. As the baby boomer generation in Texas ages, demand for health services grows, meaning that job security in the cluster is strong. If you feel a calling to care for others, won't faint at the sight of blood, or want to pursue a profession on the cutting edge of technology, then Health Science may be the right career cluster for you. This program of study is part of the Public Service endorsement.

Source: AchieveTexas in Health Science ©2010 by the Texas Education Agency.

7. Hospitality and Tourism

Texas is a top tourist destination. People from around the globe come here to visit attractions such as the Alamo, Six Flags Over Texas, and Padre Island National Seashore—all ranked among the top draws for tourists in the state. Untold millions enjoy our wealth of hotels, restaurants, theaters, museums, zoos, aquariums, rodeos, campgrounds, state and national parks, racetracks, cruises, and more. The job of keeping all those people happy falls to workers in Hospitality & Tourism. Whether chefs or concierges, travel agents or tour guides, park rangers or players for sports teams, the professionals in this cluster are experts at pleasing the public. If students want to see the world, enjoy serving others, or dream of opening a restaurant or bed and breakfast someday, then Hospitality & Tourism may be the right cluster for you. This program of study is part of the Public Service endorsement.

Source: AchieveTexas in Hospitality and Tourism ©2010 by the Texas Education Agency.

8. Information Technology

Texas is at the heart of the Information Technology Revolution. Our state is home to world-class high-tech companies such as Texas Instruments, Dell, and Advanced Microsystems. Countless smaller firms create computer games, set up custom networks, service computer equipment, or develop and manage websites. In fact, every business in Texas needs IT expertise, either from in-house staff or from outside vendors. Keeping electronic data flowing takes both technical expertise and problem-solving savvy. If you are good at grasping how technology works, have an idea for a new website or computer game, or want a career that is always changing, then Information Technology may be the right cluster for you. This program of study is part of the Business and Industry endorsement.

Source: AchieveTexas in Information Technology ©2010 by the Texas Education Agency.

9. Law and Public Safety

Sirens scream. Bombs explode. Bullets fly. This is the image that many people have of careers in Law and Public Safety. The truth is that those things do happen occasionally, but mostly careers in this cluster don't involve constant danger. Instead, they concern the important daily duties of protecting and serving the public. What folks in these careers crave is peace and quiet—that means that people and property are safe. As homeland security has become more and more of a concern, demand for people to protect sites as varied as skyscrapers and seaports, airports and reservoirs, and nuclear power plants and military bases has skyrocketed. If you have a calling to serve others, can keep a cool head under pressure, or love the law, then a career in Law and Public Safety could be the right decision for you. This program of study is part of the Public Service endorsement.

Source: AchieveTexas in Law, Public Safety, Corrections and Services ©2010 by the Texas Education Agency.

10. Science, Technology, Engineering and Mathematics

New Discoveries are made every day. Scientists, technologists, engineers, and mathematicians are pushing the boundaries of human knowledge by seeking to better understand and improve the world around us. They spend their time exploring everything from vast galaxies of stars to the tiniest subatomic particles. They invent the technologies that make our lives easier and more rewarding and develop solutions to problems that threaten our future. Thanks to the men and women on the cutting edge, we know more than ever before. If you are curious about the universe, dream of exploring new worlds of knowledge, or want to solve the planet's problems, then Science, Technology, Engineering & Mathematics could be the right career cluster for you. This program of study is part of the STEM endorsement.

Source: AchieveTexas in Science, Technology, Engineering & Math ©2010 by the Texas Education Agency.

11. Transportation, Distribution and Logistics

Texas is on the move. Every day, everywhere in the northern, southern, eastern, and western parts of the state, people and products travel hundreds of thousands of miles of roads, waterways, railroad tracks, and air routes—all because of those who work in Transportation, Distribution & Logistics. These professionals are responsible for ensuring that everyone and everything gets to the right place on time at the lowest possible cost. They are experts at planning and project management, increasingly using technology such as Global Positioning System (GPS) satellites and Radio Frequency Identification (RFID) tags to track the location of shipments. If you are movers and shakers, have a talent for organization, or yearn to see new places, then Transportation, Distribution & Logistics could be the right career cluster for you. This program of study is part of the Business and Industry endorsement.

Source: AchieveTexas in Transportation, Distribution & Logistics ©2010 by the Texas Education Agency.

12. Human Services

It takes a special kind of person to work in Human Services. Although many jobs in the cluster pay well, those who choose Human Services don't do it for the money. Instead, they are motivated by the desire to assist others. Psychologists, therapists, counselors, social workers, health aides, cosmetologists, financial planners, clergy members, and others tend to the physical, mental, and spiritual need of people in their communities. They offer helping hands to everyone from babies in child-care centers to seniors in long-term care facilities. The work is sometimes challenging, but the reward of knowing that you have improved someone's life is immense. If you feel a calling to serve your fellow men and women, feel comfortable caring for people, or want to improve your community, then Human Services could be the right cluster for you.

Source: AchieveTexas in Human Services ©2010 by the Texas Education Agency.

13. Manufacturing (Not available for S/Y 2022-2023)

Raw materials become products such as cars, computer chips, cell phones, contact lenses, cosmetics, couches, clothes, candy, and more. Employees who create those products range from production-line workers in factories assembling parts to executives in skyscrapers overseeing global operations. Repetitive tasks that typically occur in manufacturing are being performed by robots and the automation process, which required highly trained employees that can adapt to a variety of situations. Manufacturing today needs people who can understand highly technical information and make complex decisions. Workers are responsible for creative problem solving that ensures companies meet the highest quality standards. If you like building things, can follow detailed directions, or are good at organizing people and processes, then Manufacturing could be the right career cluster for you. This program of study is part of the Business and Industry endorsement.

Source: AchieveTexas in Manufacturing ©2019 by the Texas Education Agency.

14. Energy (Not available for S/Y 2022-2023)

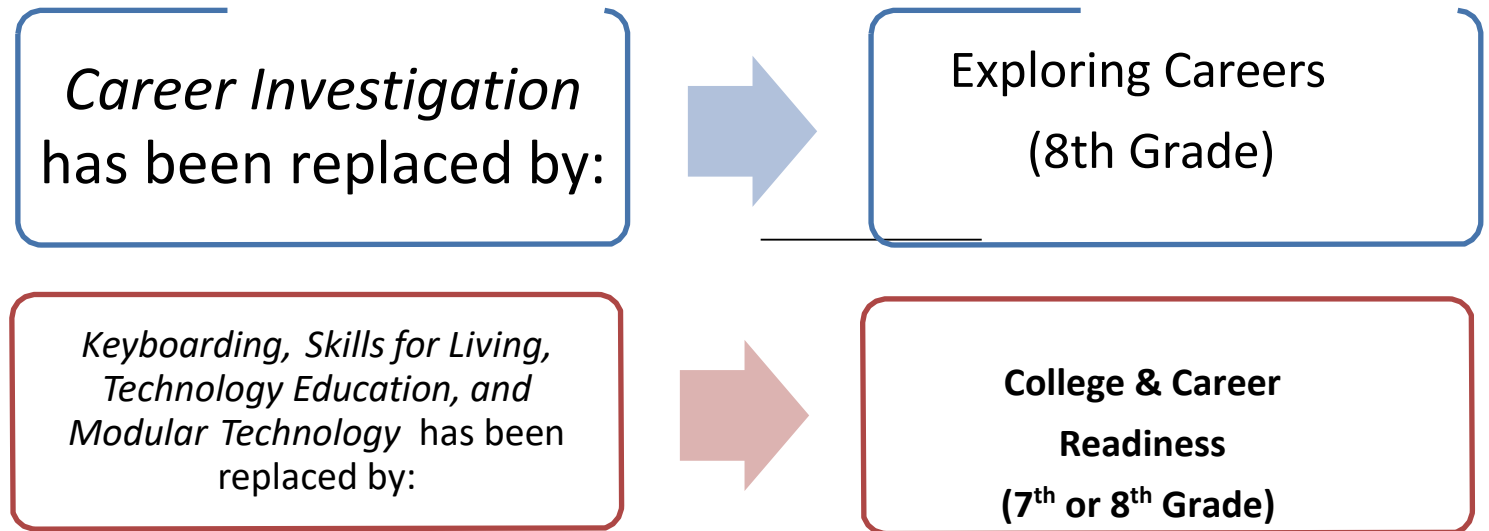
The Energy cluster uses your interests in helping people and passion for your community to prepare for careers in the energy sectors. Energy workers find rewarding experience in keeping the energy flowing. Responsibilities may include accessing natural resources used as fuel, directly assisting the utility and non-utility generation of power, constructing, operating and maintaining infrastructure such as power lines, power and pipeline construction, fuel distribution, and the manufacture of electrical transmission equipment such as solar and wind equipment. The cluster also deals with energy efficiency and sustainability. Hiring of energy efficiency jobs makes up the larger portion of state total energy workers. Job prospects will be good to those employed in transmission, distribution and energy storage. Electric power generation jobs in solar and traditional fossil fuel generation are in demand. Fossil fuels make up the largest segment of employment related to fuels; however, alternative power is in high demand. If you want to be part of this exciting new industry, then Energy might be the right cluster for you. This program of study is part of the Business and Industry endorsement.

Source: AchieveTexas in Energy ©2019 by the Texas Education Agency.

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F. Career and Technical Education Middle School Programs

Recent changes were made by the Texas Education Agency in regards to Middle School Career and Technical Education curriculum in an effort to correlate the Middle School TEKS with that of the revised High School TEKS. These changes support the continuation of relevance and rigor that was already in place.



Other Middle School Programs:

1. Exploring Careers

This course is recommended for students in Grades 7-8. Students will use decision-making and problem-solving skills for college and career planning. They will also explore valid, reliable educational and career information to learn more about themselves and their interests and abilities. Students will integrate skills from academic subjects, information technology, and interpersonal communication to make informed decisions. This course is essentially designed to guide students through the process of investigation and in the development of a college and career achievement plan.

Students will use interest inventory software or other tools to explore areas of personal interest and will use this information to explore educational requirements for a variety of chosen career paths.

2. Career Portals (College & Career Readiness)

This course is recommended for students in Grades 7 or 8. The goal of this course is to create a culture of high expectation and continuous improvement that provides middle school students with a foundation for success in high school, future studies, and careers. Students explore college and career planning within specific career cluster(s).

Students will also research labor market information, learn job-seeking skills, and create documents required for employment. Students use self-knowledge to explore and set realistic goals.

3. STC-PREP Program

The South Texas College (STC) Pre-freshman Engineering Program (STC-PREP) is an agreement between South Texas College and The University of Texas at San Antonio and participating school districts to offer an academically intense, mathematics-based summer program which stresses the development of abstract reasoning and problem solving skills.

The Primary Goal of STC-PREP is to improve access to careers in Mathematics, Sciences, and Engineering. In order to achieve this goal, the program includes: academics, role modeling, mentoring, hands on experience, and career awareness. The program is available to students completing their 6th grade year and there is an application process to be admitted. The program is a 4-year summer commitment.

4. Project Lead the Way (PLTW)

PLTW-Gateway is “activity oriented” to show students how technology is used in engineering to solve everyday problems and is designed to spark interest in STEM subjects as well as prepare students for further study in high school. This hands-on program boosts classroom engagement and excitement, drives collaboration, and inspires “aha! Moments and deep comprehension.

The program is offered to 8th grade students that are interested in the Science, Technology, Engineering, and Mathematics (STEM) fields. There is an application process to be admitted to the course.

Roma High School CTE organizations:

1. Career and Technical Student Organizations (CTSO's)

Ensuring students are “college- and career-ready” has become a critical issue as concerns rise about the success of the U.S. education system and, ultimately, the country’s economic competitiveness. The discussion surrounding college readiness is generally limited to academic skills, but actual career readiness requires an even more rigorous blend of academic, technical and employability skills, and the ability to apply these skills in authentic career situations.

The foundations for strengthening career readiness are already in place through career and technical education (CTE), which offers this unique blend of skills through comprehensive programs of study. One of the most critical components of strong CTE programs is student participation in related leadership organizations, known as career and technical student organizations (CTSOs). With more than 1.5 million student members combined, CTSOs provide “a unique program of career and leadership development, motivation and recognition for secondary and postsecondary students enrolled, or previously enrolled, in career and technical education programs.”¹

At the local level, CTSO chapters operate as in-school, co-curricular programs led by CTE teachers as advisers. For students, participation in a local chapter includes activities designed to expand their leadership abilities, contextualize their academic instruction, encourage them to pursue their education and equip them with job-related skills in their career field of interest. Students participate in local, state, national and international career-based competitions designed to measure their academic understanding and skills development.²

The United States Department of Education (USDOE) recognizes the educational programs and philosophies embraced by the following Career and Technical Student Organizations (CTSOs) as being an integral part of career and technical education (CTE) instructional programs:

- Business Professionals of America (BPA)
- DECA
- Family, Career and Community Leaders of America (FCCLA)
- Future Business Leaders of America– Phi Beta Lambda (FBLA–PBL)
- Future Educators Association (FEA)
- Health Occupations Students of America (HOSA)
- National FFA Organization (FFA)
- National Young Farmer Educational Association (NYFEA)
- National Postsecondary Agricultural Student (PAS) Organization
- SkillsUSA
- Technology Student Association (TSA)

¹ Fiscus, L. (Ed.), *Career and Technical Student Organizations: A Reference Guide* (National Coordinating Council for Career and Technical Student Organizations, 2008): p. 3.

² Association for Career and Technical Education, *Expanding Career Readiness through Career and Technical Student Organizations*, 2011.

CTE Clubs and Organizations



Business Professionals of America (BPA)

Business Professional of America (BPA) is a regional, state, and national organization. BPA is for students pursuing the Business and Industry endorsement with a career cluster in Business, Marketing, & Finance and/or Information Technology. BPA students might be interested in pursuing a possible career in Business Management and Administration, Office Administration, and Information Technology or a related career. BPA offers students opportunities to compete in co-curricular activities that support business and information technology education.



Distributive Education Clubs of America (DECA)

DECA prepares emerging leaders for careers in marketing, finance, hospitality, management, and entrepreneurship in high schools and colleges around the globe. DECA offers students opportunities to compete in co-curricular activities to practice and enhance their leadership skills, consensus building, and project management.



Family, Career and Community Leaders of America (FCCLA)

Family, Career and Community Leaders of America (FCCLA) is a regional, state, and national organization. FCCLA functions as an integral part of the Family and Consumer Sciences education curriculum and operates within the school system. FCCLA encompasses the following Pathways; Human Services, Education & Training, and Hospitality & Tourism. Since 1945, FCCLA members have been making differences in families, careers, and communities by addressing important personal, work, and societal issues. Through participation in competitive events, becoming involved in community service opportunities, student leadership, and attending leadership conferences, members develop real world skills, explore Career Pathways, and become college- and career-ready.



Future Farmers of America (FFA)

Future Farmers of America (FFA) is a local, state, and national organization. FFA is a dynamic youth organization with agricultural education that changes lives and prepares students for premier leadership, personal growth and career success. FFA offers students opportunities to compete in co-curricular activities that support agricultural, food, and natural resources education.



Health Occupations Students of America (HOSA)

HOSA is a co-curricular organization that provides students with the opportunity to compete at the regional, state, and national levels in the health science related field. HOSA empowers students to develop leadership and technical skills competencies as part of the Health Science Education Instructional program. Students interested in the health science field are encouraged to become active members of HOSA.



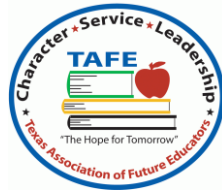
Robotics Club

Students interested in careers in the engineering field are encouraged to be active members of the Robotics Club. Students explore engineering and robotics through hands-on activities and participate in area competitions. The Robotics Club promotes skills learning in the Science, Technology, Engineering, and Mathematics (STEM) cluster.



Skills USA/Skills USA Texas

Skill USA is a partnership organization supported by teachers, students, and industry to support students to ensure that America has a skilled workforce. Skills USA develops leadership, positive attitude, pride, and workmanship in students. Skills USA prepares students through employment by introducing them to corporate quality culture. Students compete in leadership and technical skills and engineering. Students compete at the regional, state, and national levels.



Texas Association of Future Educators (TAFE)

Texas Association of Future Educators (TAFE pronounced Taffy) is a statewide co-curricular organization to support students who are interested in exploring the teaching profession. TAFE is sponsored by the Texas Association of Secondary Principals and its board is made up of students, teachers, and principals. TAFE is a state affiliate of Educators Rising and students must have membership in Educators Rising in order to compete at the regional, state, and national levels. TAFE encourages students to learn about careers in education and assists them in exploring the teaching profession while promoting character, service, and leadership skills.

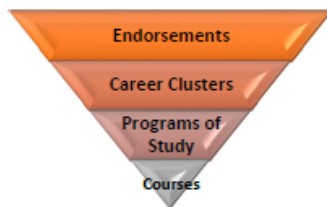


Texas Public Service Association (TPSA)

Texas Public Service Association (TPSA) is a co-curricular student organization in Texas that provides students with knowledge, skills, leadership and student growth through real life career preparation, experience, and training through competitions. Students compete at the regional and state level in the following career areas: Law Enforcement, Courts, Forensics Science, Corrections and Security. Its focus is to extend the knowledge of students in the Law and Public Service career cluster.

ROMA ISD CTE SUMMARY 2022-2023

All Career & Technical Education (CTE) courses specifically support the Business & Industry, Public Services, STEM and Multidisciplinary endorsement categories for the Foundation High School Program + Endorsement graduation plan. Roma ISD offers over 100 unique CTE courses in grades 8 through 12. The following definitions may assist you in understanding how CTE courses and programs fit within the graduation plan.



Endorsements: Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area. There are five (5) endorsement areas:

- Arts and Humanities
- Business and Industry (CTE)
- Multi-Disciplinary Studies (CTE)
- Public Service (CTE)
- STEM- Science, Technology, Engineering, and Mathematics (CTE)

CTE Career Clusters: A career cluster is a group of careers that share a common themes. There are fourteen (14) Texas identified career clusters that are aligned with the five (5) Endorsement categories.

• Agriculture, Food, and Natural Resources	• Hospitality and Tourism
• Architecture and Construction	• Human Services
• Arts, AV Technology and Communications	• Information Technology
• Business Marketing and Finance	• Law and Public Service
• Education and Training	• *Manufacturing
• *Energy	• STEM (Science, Technology, Engineering, and Math)
• Health Science	• Transportation, Distributions, and Logistics

Programs of Study: A program of study is a coordinated, non- duplicative sequence of courses which progress in specificity beginning with all aspects of an industry and leading to more occupation specific instruction. For the 2022-2023 school year Roma ISD will offer 23 programs of study.

<ul style="list-style-type: none"> • Agriculture, Food, and Natural Resources <ul style="list-style-type: none"> ◦ Applied Agricultural Engineering ◦ Agribusiness 	<ul style="list-style-type: none"> • Hospitality and Tourism <ul style="list-style-type: none"> ◦ Culinary Arts
<ul style="list-style-type: none"> • Architecture and Construction <ul style="list-style-type: none"> ◦ Carpentry 	<ul style="list-style-type: none"> • Human Services <ul style="list-style-type: none"> ◦ Family and Community Services
<ul style="list-style-type: none"> • Arts, AV Technology and Communications <ul style="list-style-type: none"> ◦ Digital Communications ◦ Design and Multimedia 	<ul style="list-style-type: none"> • Information Technology <ul style="list-style-type: none"> ◦ Information Technology Support and Services ◦ Networking Systems
<ul style="list-style-type: none"> • Business Marketing and Finance <ul style="list-style-type: none"> ◦ Business Management ◦ Entrepreneurship 	<ul style="list-style-type: none"> • Law and Public Service <ul style="list-style-type: none"> ◦ Emergency Services ◦ Law Enforcement
<ul style="list-style-type: none"> • Education and Training <ul style="list-style-type: none"> ◦ Early Learning ◦ Teaching and Training 	<ul style="list-style-type: none"> • Manufacturing (NONE for 2022-2023, courses only)
<ul style="list-style-type: none"> • Energy (NONE for 2022-2023) 	<ul style="list-style-type: none"> • STEM (Science, Technology, Engineering, and Math) <ul style="list-style-type: none"> ◦ Engineering ◦ Cybersecurity
<ul style="list-style-type: none"> • Health Science <ul style="list-style-type: none"> ◦ Health Informatics ◦ Healthcare Diagnostics ◦ Healthcare Therapeutics ◦ Medical Therapy ◦ Nursing Science 	<ul style="list-style-type: none"> • Transportation, Distribution, and Logistics <ul style="list-style-type: none"> ◦ Automotive

ROMA ISD CTE SUMMARY 2022-2023

Certificates Available for the 2022-2023 S/Y by Career Cluster:	
Agriculture, Food, and Natural Resources	<ul style="list-style-type: none"> • AWS D1.1 Structural Steel • AWS D9.1 Sheet Metal • OSHA 30-Hour General Industry
Architecture and Construction	<ul style="list-style-type: none"> • OSHA 30-Hour Construction
Arts, AV Technology and Communications	<ul style="list-style-type: none"> • Apple iWork
Business Marketing and Finance	<ul style="list-style-type: none"> • Microsoft Office Specialist Excel • Microsoft Office Specialist Word
Education and Training	<ul style="list-style-type: none"> • Substitute Certification (Region 1) • Educational Aide
Energy	NONE for 2022-2023
Health Science	<ul style="list-style-type: none"> • Certified Nurse Aide/Assistant (CNA) • Certified Pharmacy Technician • Medical Coding and Billing Specialist • Patient Care Technician (PCT) • Phlebotomy Technician • Basic Life Support (BLS) American Heart Association (Not on IBC List) • EKG Certification
Hospitality and Tourism	<ul style="list-style-type: none"> • Food Handler Certification (ServSafe) • Certified Fundamentals Pastry Cook (CFPC)
Human Services	NONE for 2022-2023
Information Technology	<ul style="list-style-type: none"> • CompTIA A+
Law and Public Service	<ul style="list-style-type: none"> • Non-Commissioned Security Officer Level II
Manufacturing	NONE for 2022-2023
STEM	<ul style="list-style-type: none"> • CompTIA Security+
Transportation, Distributions, and Logistics	<ul style="list-style-type: none"> • ASE Entry-Level Certifications: • Automotive Maintenance & Light Repair • Automotive Service Technology • Brakes • Engine Performance • Engine Repair • Electronic/Electrical Systems • Heating and A/C • Suspension and Steering • Transmission/Transaxle

Helpful Websites

CTE Resources:

Texas CTE Resource Site www.txcte.org
 College and Career Planning Resources www.texasoncourse.org

Career Assessments:

Career Exploration and Assessment www.texasgenuine.com
 Career Assessments <https://www.careeronestop.org/Toolkit/toolkit.aspx>
 Career Coach <https://wfsolutions.emsicc.com>

Career Exploration:

Career, College Search and Financial Aid Information www.everychanceeverytexan.org
 Career Exploration <https://www.onetonline.org>
 Career Options <https://www.mynextmove.org/>
 Texas Career Check/Exploration www.texascareercheck.com

College Options, Exploration, and Application:

Apply Texas www.applytexas.org
 College for All Texans www.collegeforalltexans.com
 College Planning and Preparation Resources www.collegeboard.org
 General Information on SAT and ACT www.collegeboard.org and www.actstudent.org
 GenTX (Generation Texas) <http://gentx.org>
 Listing of All Universities <https://university.graduateshotline.com>

Financial Aid and Future Exploration:

FAFSA (Free Application/Federal Student Aid) www.fafsa.ed.gov
 Texas Internship Challenge www.txinternshipchallenge.com
 Texas Reality Check www.texasrealitycheck.com

Labor Market and Career Information:

Labor Market and Career Information www.lmci.state.tx.us
 Occupational Outlook Handbook <https://www.bls.gov/ooh/>
 Texas CREWS (TX Consumer Resources for Education & Workforce Statistics) <http://board.thecb.state.tx.us/apps/txcrows/>
 Texas Wages and Employment Projection www.texaswages.com

Military Awareness:

ASVAB www.asvabprogram.com
 ARMY Resource/Test Prep Site www.march2success.com
 Explore the Branches of the Military <http://www.todaysmilitary.com>

Connecting Industry to Classrooms

www.nepris.com



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