



DONNA
INDEPENDENT SCHOOL DISTRICT



**DISCOVER YOUR POTENTIAL,
GRADUATE COLLEGE & CAREER READY**



CTE HANDBOOK

2020-2021

CTE Handbook 2020-2021

Dr. Hafedh Azaiez, Superintendent



Mr. David Moreno, CTE Director

DISD DISCLAIMER

Donna ISD offers Career and Technical Education programs in three endorsement areas. Admissions to these programs is based on student interest. It is the policy of Donna ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services, or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and section 504 of the Rehabilitation Act of 1973, as amended. For further information about your rights or grievance procedures, contact the Title IX Coordinator and/or the Section 504 Coordinator.

CTE COURSE OFFERINGS

NOTE: CTE courses are subject to change due to student enrollment, facilities, and/or staff availability. Also, courses may not be available on all high school campuses or may not be offered each year. If possible, DISD will transport students to and from their high school to their sister high school to participate in programs only offered at that campus.

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Mission Statement

The mission of Donna ISD is to provide a rigorous and supportive learning environment with meaningful and relevant learning experiences that inspire creativity, character development, and critical thinking that ensures educational excellence for all students.

Vision Statement

The vision of Donna ISD is to be a bold district at the forefront of educating all students to be passionate, motivated leaders who will be a powerful force for positive change in our community, state and nation.

CTE Mission Statement

The Donna ISD Career Technical Education program is dedicated to empowering all CTE students to explore, identify, select and pursue a career pathway and gain technical and high-level academic skills to confidently and successfully transition into post-secondary and 21st Century career opportunities.

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 a CTE advisory industry council that provides support to Donna'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 student and staff achievements and CTE community partners and advisory council 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 Services, 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 & Communications
- Business, Marketing & Finance
- Hospitality & Tourism
- Information Technology
- Manufacturing
- Transportation, Distribution & Logistics

Public Services

- Education & Training
- Health Science
- Human Services – Approved Regional Program of Study
- Law and Public Service

Science, Technology, Engineering and Mathematics

- Engineering
- Programming and Software Development



DONNA

Career Clusters and Programs of Study

Effective 2020-2021 school year, Donna 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 in-demand, high-skill, and high-wage careers in Texas.



Agriculture, Food & Natural Resources



Architecture & Construction



Arts, AV Technology & Communication



Business, Marketing & Finance



Education and Training



Health Science



Hospitality and Tourism



Human Services



Information Technology



Law and Public Service



Manufacturing



STEM



Transportation, Distribution, & Logistics

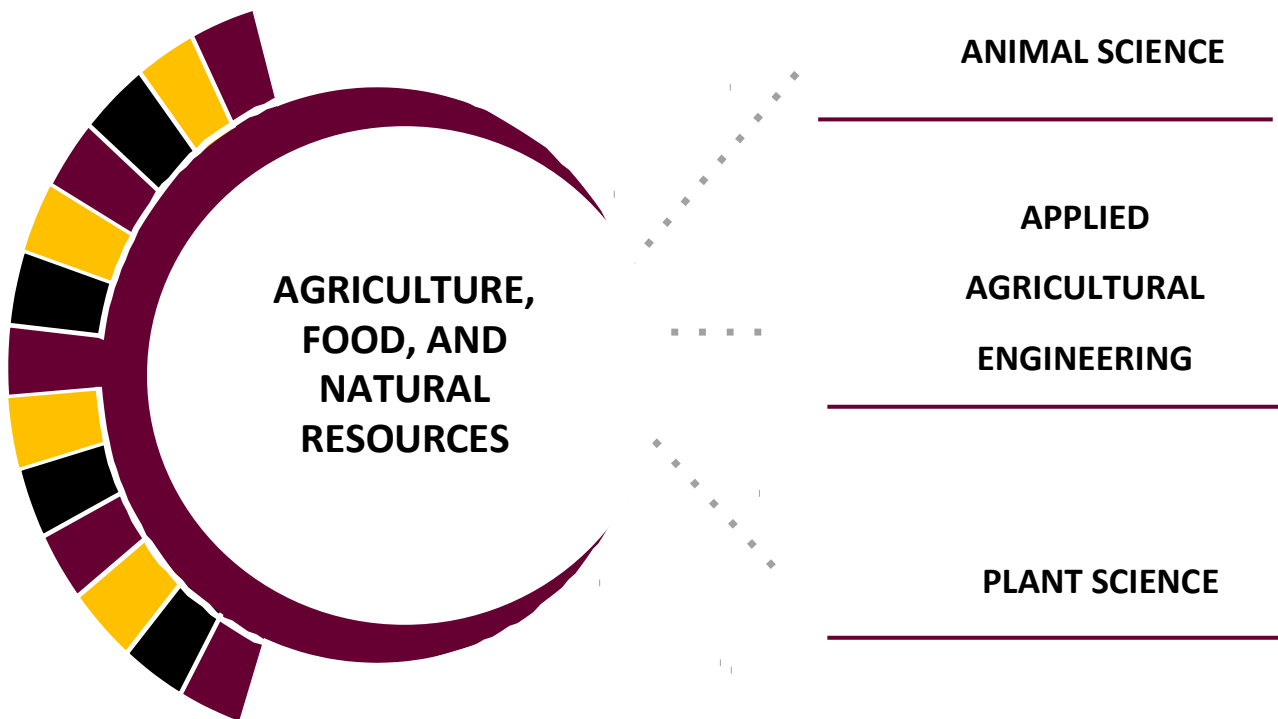
CTE Career Clusters, Programs of Study, and Endorsements

Career Cluster	Programs of Study	Endorsement
Agriculture, Food, and Natural Resources	<i>Animal Science</i>	Business & Industry
	<i>Applied Agricultural Engineering</i>	Business & Industry
	<i>Plant Science</i>	Business & Industry
Architecture and Construction	<i>Architectural Design</i>	Business & Industry
	<i>Carpentry</i>	Business & Industry
Arts, Audio Visual Technology and Communication	<i>Design and Multimedia Arts</i>	Business & Industry
	<i>Digital Communications</i>	Business & Industry
Business, Marketing, and Finance	<i>Accounting and Financial Services</i>	Business & Industry
	<i>Business Management</i>	Business & Industry
	<i>Marketing and Sales</i>	Business & Industry
Hospitality and Tourism	<i>Culinary Arts</i>	Business & Industry
Information Technology	<i>Information Technology Support and Services</i>	Business & Industry
	<i>Networking Systems</i>	Business & Industry
Manufacturing	<i>Advanced Manufacturing and Machinery Mechanics</i>	Business & Industry
	<i>Manufacturing Technology</i>	Business & Industry
	<i>Welding</i>	Business & Industry
Transportation, Distribution, & Logistics	<i>Automotive</i>	Business & Industry
Education and Training	<i>Teaching and Training</i>	Public Service
Health Science	<i>Health Informatics</i>	Public Service
	<i>Healthcare Diagnostics</i>	Public Service
	<i>Healthcare Therapeutic</i>	Public Service
Human Services	<i>Cosmetology and Personal Care Services</i>	Public Service
Law and Public Service	<i>Law Enforcement</i>	Public Service
Science, Technology, Engineering, and Mathematics	<i>Engineering</i>	STEM
	<i>Programming and Software Development</i>	STEM

Business & Industry Endorsement

CAREER CLUSTER

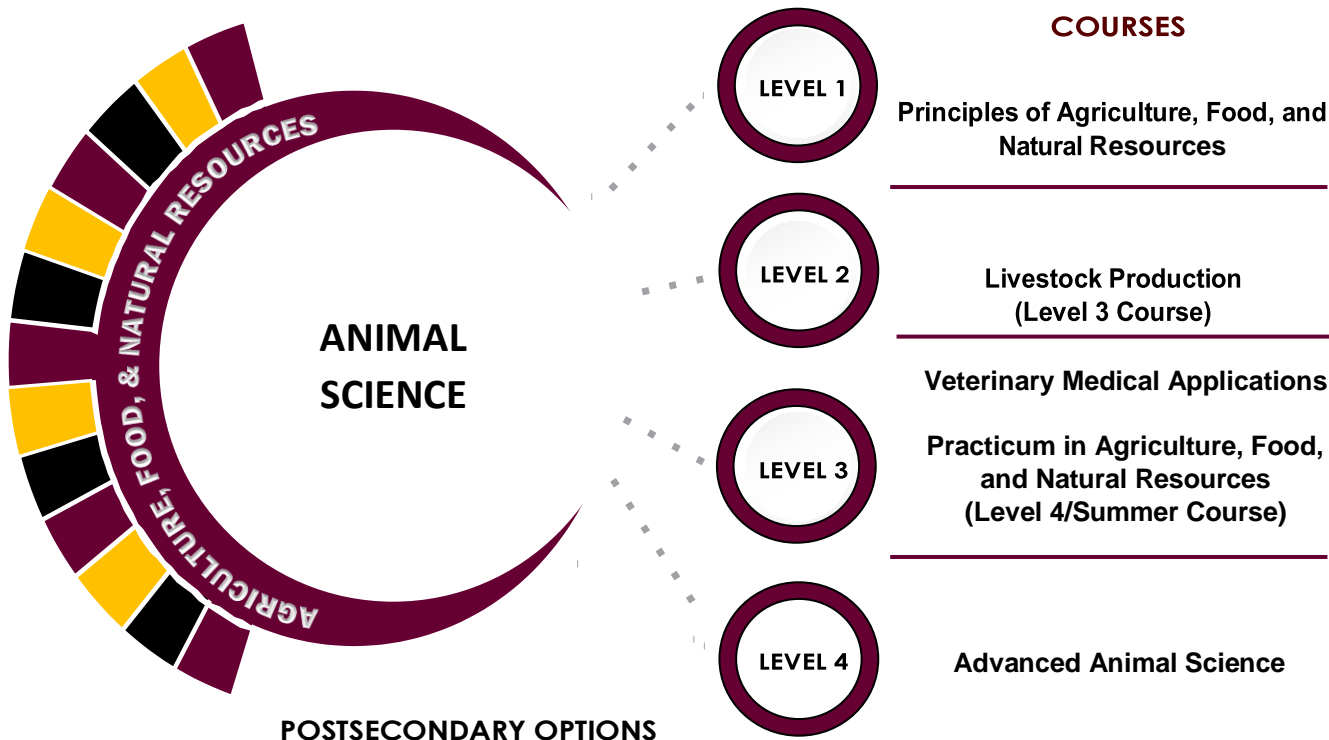
PROGRAMS OF STUDY



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.

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 Perkins V 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
Licensed Veterinary Technician	Pet Groomer	Food Science and Technology	Animal Sciences	Genetics	Animal Breeders	\$39,13	28	9%
*Certified Veterinary Assistant, Level 1	Veterinary Technician	Veterinary Studies	Agriculture	Veterinary Medicine	Animal Scientists	\$57,533	22	12%
*Texas Beef Quality Assurance	Licensed Breeder	Biotechnology Laboratory Technician	Biology	Biological and Physical Sciences	Medical Scientists	\$63,898	435	27%
*OSHA 30 Hour General Industry	Feedyard Technician in Cattle and Care Handling	Biology Technician	Zoology/ Animal Biology	Biological and Biomedical Sciences	Veterinarians	\$93,496	294	24%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Zoologists and Wildlife Biologists	\$67,309	45	32%
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
					Exploration Activities: Texas FFA Junior FFA SkillsUSA Rio Grande Valley Livestock Show	Work Based Learning Activities: Agri-Science Fairs 4H Clinical Rotation at Veterinary office Volunteer at a local farm		

The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches students how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.



The Agriculture, Food and Natural Resources (AFNR) Career Cluster® focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Successful completion of the Animal Science program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

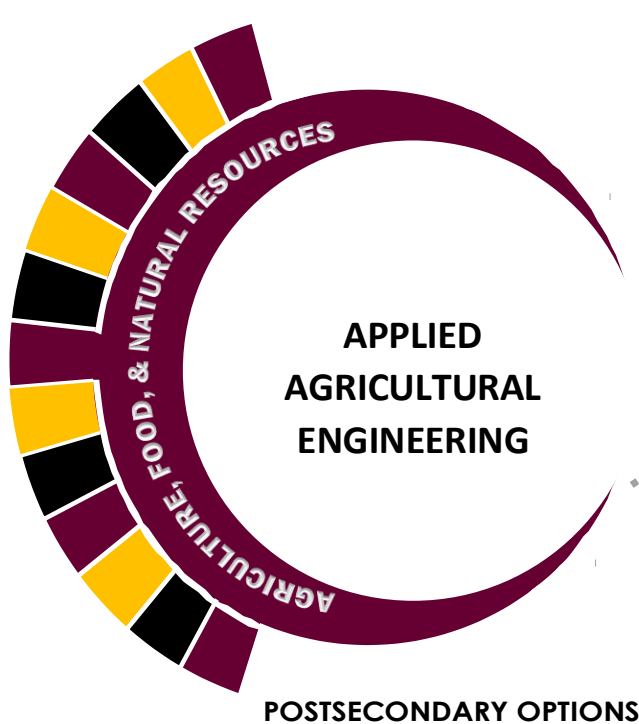
COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	9-12
Livestock Production	13000300 (1 credit)	None	10-12
Veterinary Medical Applications	13000600 (1 credit)	PREQ: Equine Science, Small Animal Management, or Livestock Production	11-12
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits)	None	11-12
Advanced Animal Science	13000700 (1 credit)	PREQ: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production	11-12

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

Amanda Brantley/Amana.Brantley@tea.texas.gov

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

<http://www.donnaisd.net/Community/Graduation-Plans>



COURSES

LEVEL 1

Principles of Agriculture, Food, and Natural Resources

LEVEL 2

Agricultural Mechanics and Metal Technologies

LEVEL 3

Agricultural Structures Design and Fabrications

LEVEL 4

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
*OSHA 30 Hour General Industry	Certified Professional Agronomist	Heavy Equipment Technology/ Technician	Agricultural Engineering		Outdoor Power Equipment & Other Small Engine Mechanics	\$32,406	366	16%
*AWS D1.1 and/or D9.1 Certification	Fluid Power Mobile Hydraulic Mechanic	Welding Technology/ Welding			Welders	\$41,350	6,171	9%
*NIMS Materials, Measurement and Safety	Certified Reliability Engineer	Agricultural Mechanization, General			Agricultural Engineers	\$64,792	9	13%
AWS SENSE Welding, Level 1	Certified Irrigation Designer	Small Engine Mechanics & Repair Technology			Mobile Heavy Equipment Mechanics	\$47,299	1,627	16%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES Exploration Activities: Texas FFA Junior FFA Skills USA Work Based Learning Activities: Earn a welding Certificate Volunteer/Intern at a local farm			
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.								

The Applied Agricultural Engineering program of study explores the occupations 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.



The Agriculture, Food and Natural Resources (AFNR) Career Cluster® focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Successful completion of the Applied Agriculture Engineering program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	9-12
Agricultural Mechanics and Metal Technologies	13002200 (1 credit)	None	10-12
Agricultural Structures Design and Fabrications	13002300 (1 credit)	PREQ: Agricultural Mechanics and Metal Technologies	11-12

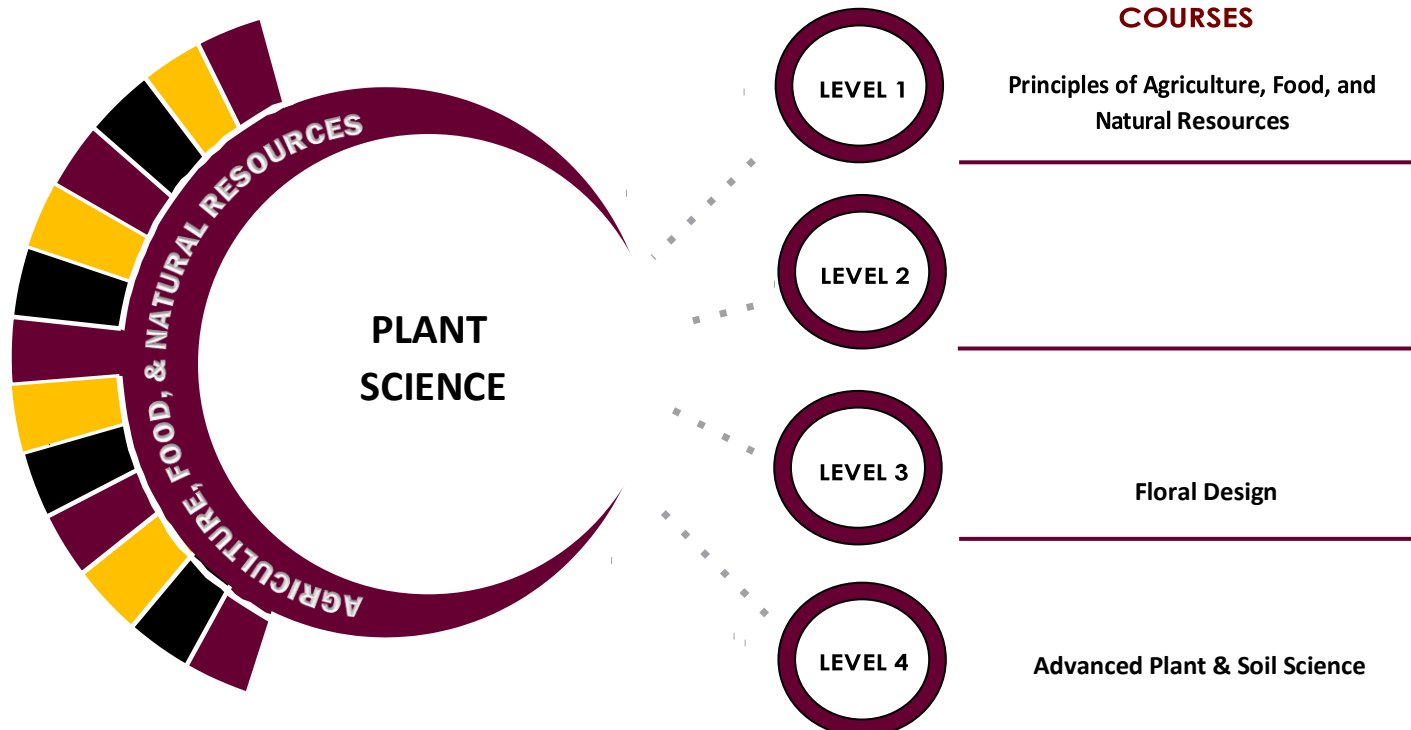
FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER, PLEASE CONTACT:

Amanda Brantley/Amana.Brantley@tea.texas.gov

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

<http://www.donnaisd.net/Community/Graduation-Plans>

COURSES



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
*OSHA 30 Hour General Industry	Landscape Industry Certified Technician	Turf and Turfgrass Management	Farm/Farm and Ranch Management		Soil and Plant Scientists	\$54,662	116	21%
*Commercial/ Noncommercial Pesticide Applicator	Pesticide Applicator	Ornamental Horticulture	Agronomy and Crop Science		Tree Trimmers And Pruners	\$32,240	589	14%
*Texas State Floral Association, Level One	Certified Floral Designer	Member of AIFD	Agricultural Business and Management, General		Pesticide Handlers, Sprayers, and Applicators	\$36,733	196	22%
*Landscape Irrigation Technician License	Certified Irrigation Designer	Applied Horticulture/ Landscape Designer	Horticulture Operations, General		Landscaping Supervisors	\$44,408	807	19%
					Biological Technicians	\$42,931	452	17%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES Exploration Activities: Texas FFA Junior FFA SkillsUSA Work Based Learning Activities: Earn a Floral Design Certificate Work at a Floral Shop Intern/Work at a Landscaping Business			
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.								

The Plant Science program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.



The Agriculture, Food and Natural Resources (AFNR) Career Cluster® focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Successful completion of the Plant Science program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	9-12
Floral Design	13001800 (1 credit)	None	9-12
Advanced Plant and Soil Science	13002100 (1 credit)	None	11-12

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

Amanda Brantley/Amanda.Brantley@tea.texas.gov

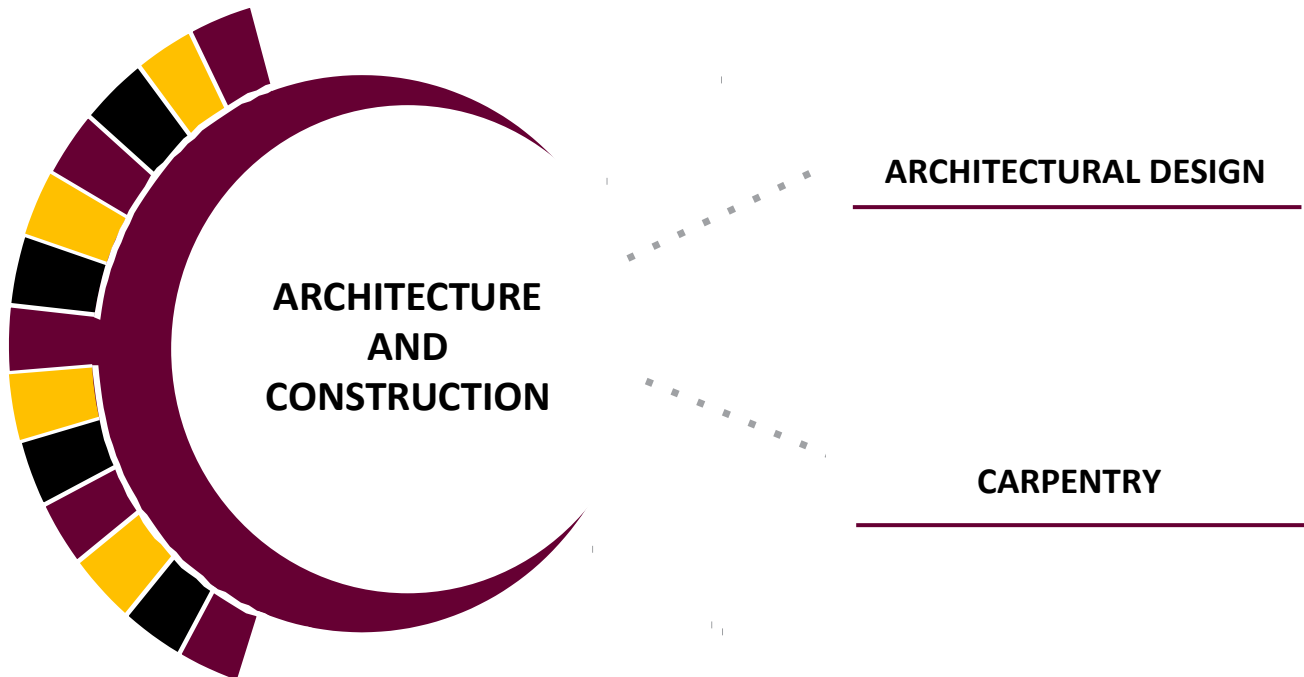
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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY



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.

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COURSES

LEVEL 1

Principles of Architecture

LEVEL 2

Architectural Design I

LEVEL 3

Architectural Design II CC

LEVEL 4

Practicum in Architectural Design CC

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
*Autodesk Certified Professional or User in AutoCAD	*Architectural and Civil Engineering Technology Certificate – STC Dual Enrollment	Architecture and Civil Engineering Design Technology	Architecture		Architects	\$77,043	808	16%
Autodesk Certified Professional or User in AutoCAD Civil 3D	Certified Development Design & Construction Professional	Interior Design		Interior Architecture	Geographic	\$58,906	162	22%
Autodesk Certified Professional or User in Revit Architecture	National Council Certified Interior Designer	Civil Engineering, General			Architectural/ Civil Drafters	\$50,170	1,068	9%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Construction Managers	\$87,402	2,401	14%
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
					Exploration Activities: SkillsUSA Department tour at a college or firm Shadow an Architect or Civil Engineer	Work Based Learning Activities: Intern at an architectural firm		

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



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

Successful completion of the Architectural Design program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Architecture	13004210 (1 credit)	None	9-12
Architectural Design I	13004600 (1 credit)	PREQ: Algebra I and English I	10-12
Architectural Design II CC	13004700 (2 credits)	PREQ: Architectural Design I	11-12
Practicum in Architectural Design CC	13004800 (2 credits)	PREQ: Architectural Design II CC	12

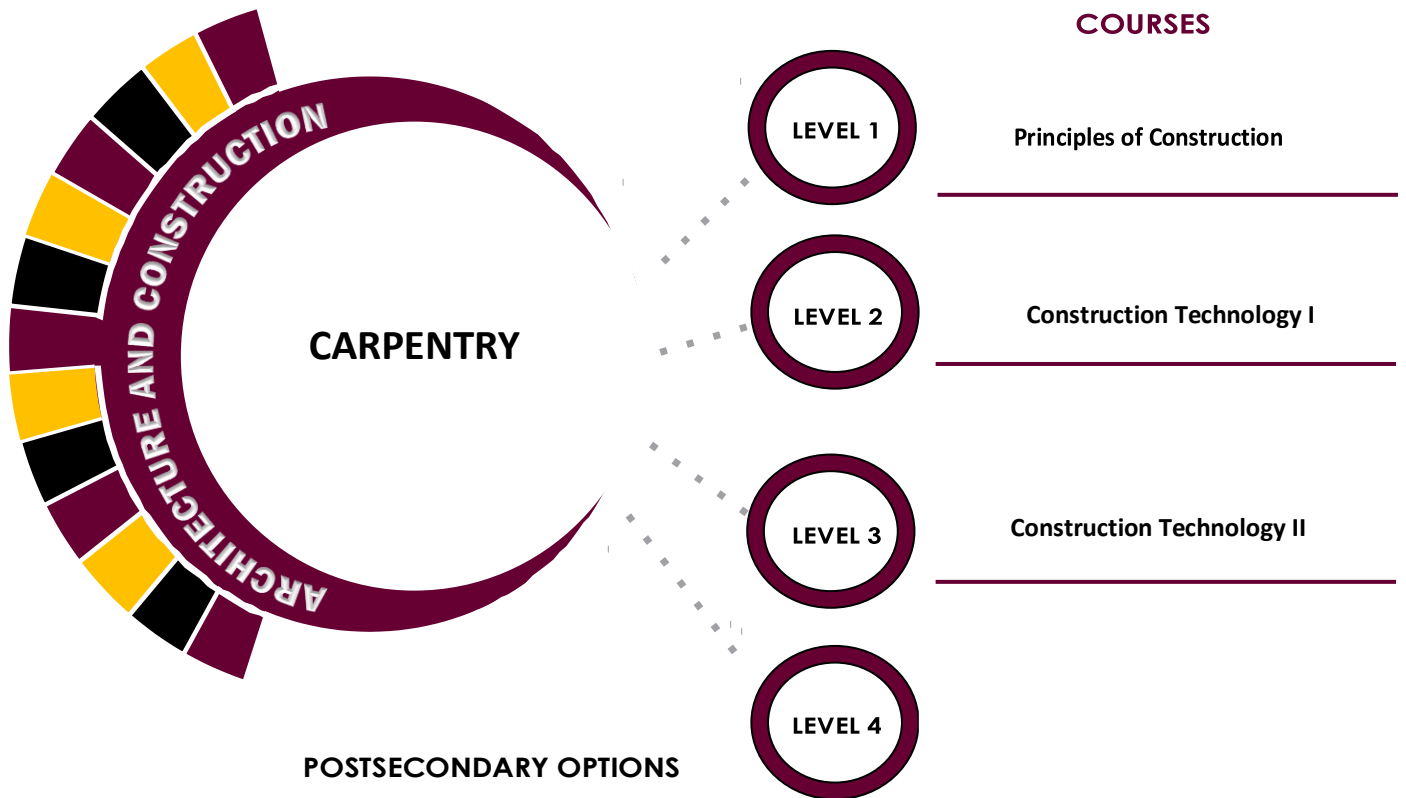
FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT:

Les Hudson/Les.Hudson@tea.texas.gov

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

<http://www.donnaisd.net/Community/Graduation-Plans>

COURSES



HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
NCCER Carpentry Fundamentals, Level 1	Certified Lead Carpenter	Carpentry/ Carpenter	Construction Science	Construction Management	Carpenters	\$35,922	5,031	26%
NCCER Core Curriculum	Certified Installer	Industrial Mechanics and Maintenance Technology			Cost Estimators	\$63,939	2,239	21%
*OSHA 30 Hour Construction	Certified Door Consultant							
NCCER Construction Technology	Fluid Power Connector and Conductor							
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD.					Exploration Activities:		Work Based Learning Activities:	
					SkillsUSA		Intern at a construction company	
					Shadow a Carpenter		Obtain a certification	

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, posts, 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.

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

Successful completion of the Carpentry program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Construction	13004220 (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

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

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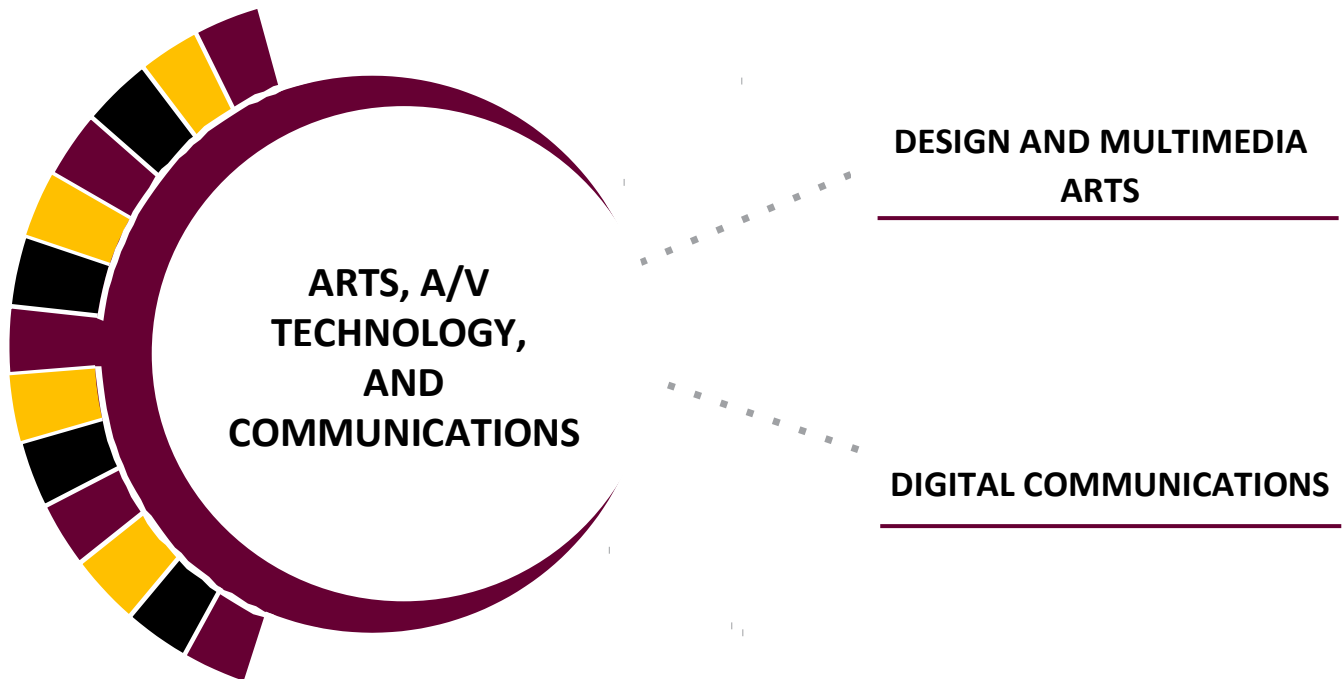
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Business & Industry Endorsement

CAREER CLUSTER

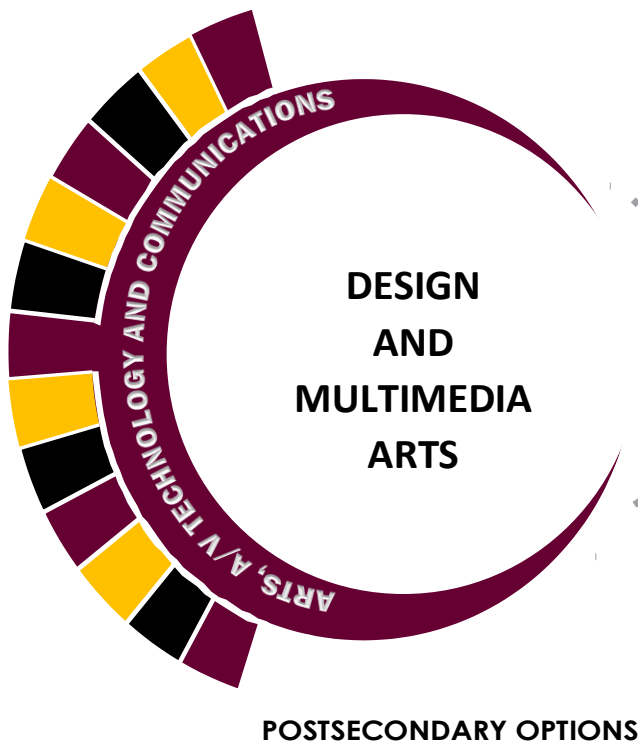
PROGRAMS OF STUDY



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COURSES

LEVEL 1

Principles of Arts, A/V Technology, and Communications

LEVEL 2

Commercial Photography I

LEVEL 3

Commercial Photography II

LEVEL 4

Practicum in Commercial Photography

HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
*Adobe Certified Associate Certifications—Photoshop, Premiere Pro, Visual Design Specialist	Certified Digital Designer	Animation, Interactive Technology, Video Graphics and Special Effects			Graphic Designers Technicians	\$44,824	1,433	15%
Adobe Certified Expert Certifications	WOW Certified Web Designer	Graphic Design			Multimedia Artists Equipment Technicians	\$67,392	186	21%
Apple Logic Pro X	Adobe Suite Certifications	Game and Interactive Media Design	Intermedia/ Multimedia		Cartographers and Photogrammetrists	\$ 60,810	170	28%
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD					Exploration Activities: SkillsUSA TSA Join a photography club	Work Based Learning Activities: Intern with a multimedia, or photography studio		

The 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.



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

Successful completion of the Design and Multimedia Arts program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) REC. PREREQUISITES (RPREQ)	GRADE
Principles of Arts, A/V Technology, and Communications	13008200 (1 credit)	None	9
Commercial Photography I	13009100 (1 credit)	None	9-12
Commercial Photography II	13009200 (1 credit)	RPREQ: Commercial Photography I	10-12
Practicum in Commercial Photography	13009250 (2 credits)	PREQ: Commercial Photography I	11-12

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

Les Hudson/Les.Hudson@tea.texas.gov

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

<http://www.donnaisd.net/Community/Graduation-Plans>



POSTSECONDARY OPTIONS

COURSES

- LEVEL 1**
Principles of Arts, A/V Technology, and Communications
Professional Communications/CC

- LEVEL 2**
Audio Video Production I

- LEVEL 3**
Audio Video Production II

- LEVEL 4**

HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
*Adobe Certified Associate Certifications—Photoshop, Premiere Pro, Visual Design Specialist	Certified Broadcast Radio Engineer	Music Technology	Communications/Journalism		Sound Engineering Technicians	\$39,562	79	27%
Apple Final Cut Pro X	Certified Video Engineer	Recording Arts Technology/Technician		Communications Technology/Technician	Camera Operators, Television, Video and Motion Pictures	\$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%
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD.					Exploration Activities: SkillsUSA TSA Shadow a production team	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.

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

Successful completion of the Digital Communication program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Arts, A/V Technology, and Communications	13008200 (1 credit)	None	9
Professional Communications/CC	13009900 (.5 credits)	None	9-12
Audio Video Production I	13008500 (1 credit)	None	10-12
Audio Video Production II	13008600 (1 credit)	PREQ: Audio Video Production I	11-12

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

Les Hudson/Les.Hudson@tea.texas.gov

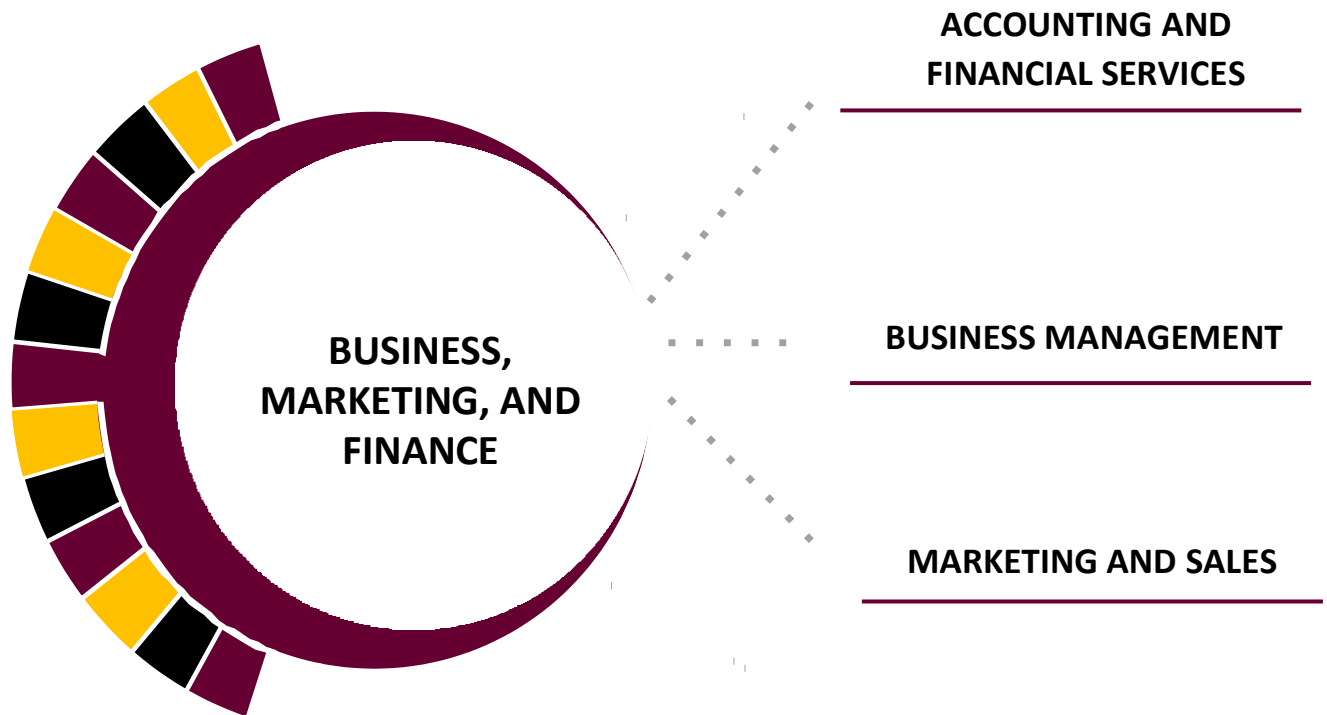
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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY



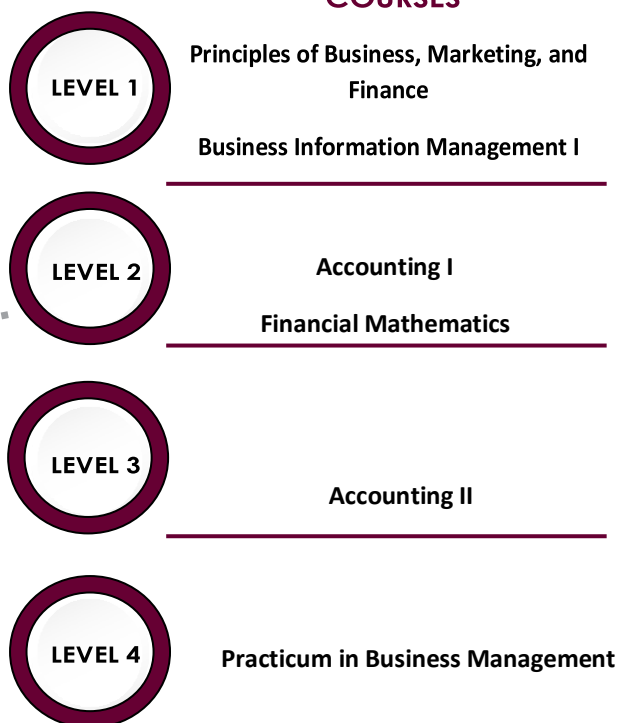
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COURSES



POSTSECONDARY OPTION

HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
*Intuit QuickBooks Certified User	Certified Management Accountant	Real Estate	Accounting	Financial Accounting	Accountants and Auditors	\$71,469	14,436	22%
*Microsoft Office Specialist or Expert – Word and/or Excel	Certified Internal Auditor	Financial, General		Business Administration	Loan Officers	\$68,598	2,419	19%
Certified Insurance Service Representative	Certified Income Specialist	Financial Planning and Services		Financial Planning	Personal Financial Advisors	\$86,965	1,861	52%
*Google Analytics Individual Qualification	Certified Public Accountant	Certified Income Specialist			Administrative Service Managers	\$96,138	2,277	21%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Insurance Underwriters	\$66,206	594	14%
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.					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: Intern at an Accounting firm Earn certifications		

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



The Business, Marketing and Finance Career Cluster® focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations, interior design, and construction management.

Successful completion of the Accounting and Financial Services program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	9-11
Business Information Management I	13011400 (1 credit)	None	9-12
Accounting I	13016600 (1 credit)	None	10-12
Financial Mathematics	13018000 (1 credit)	PREQ: Algebra I	10-12
Accounting II	13016700 (1 credit)	PREQ: Accounting I	11-12
Practicum in Business Management	13012200 (2 credits)	None	11-12

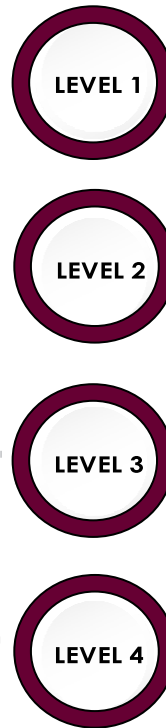
FOR ADDITIONAL INFORMATION ON THE BUSINESS, MARKETING, AND FINANCE CAREER CLUSTER, PLEASE CONTACT:

Dale Fowler/Dale.Fowler@tea.texas.gov

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COURSES



Principles of Business, Marketing, and Finance

Business Information Management I

Business Information Management II

Business Management

Practicum in Business Management

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
*Microsoft Office Specialist or Expert –Word	Certified Records Manager	Business Administration			Administrative Service Managers	\$96,138	2,277	21%
*Microsoft Office Specialist or Expert –Excel	Certified Facility Manager	Business/ Commerce		Business Administration	Management Analysts	\$87,651	4,706	32%
Google Cloud Certified Professional – G-Suite	Certified Commercial Contracts Manager	Public Administration			General and Operations Managers	\$107,640	18,679	20%
*Google Analytics Individual Qualification	Teradata 14 Basics/ Certified Technical Specialist	Business Management		Management Science	Operations Research Analysts	\$78,083	1,128	38%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Supervisors of Administrative Support Workers	\$57,616	14,982	20%
For more information on postsecondary options for this program of study, visit TXCTE.org, or visit your counselor, or the CTE department at DISD					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: Intern with a local business Earn certifications		

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.



The Business, Marketing and Finance Career Cluster® focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations, interior design, and construction management.

Successful completion of the Business Management program of study requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	9-11
Business Information Management I	13011400 (1 credit)	None	9-12
Business Information Management II	13011500 (1 credit)	PREQ: Business Information Management I	10-12
Business Management	13012100 (1 credit)	None	10-12
Practicum in Business Management	13012200 (2 credits)	None	11-12

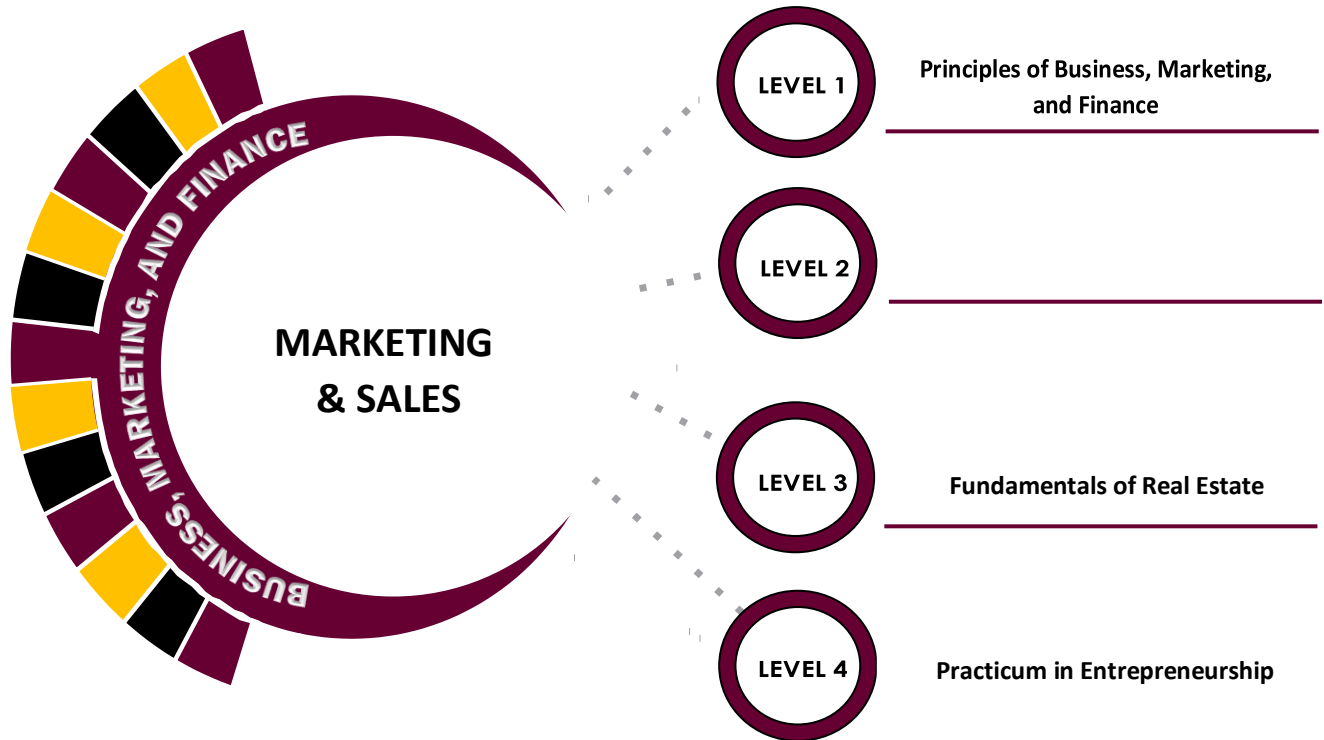
FOR ADDITIONAL INFORMATION ON THE BUSINESS, MARKETING, AND FINANCE CAREER CLUSTER, PLEASE CONTACT:

Dale Fowler/Dale.Fowler@tea.texas.gov

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COURSES



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
*Microsoft Office Specialist, Expert/Master in Word and/or Excel	Certified Product Manager	Marketing/Marketing Management, General		Marketing	Marketing Research Analysts & Marketing Specialists	\$70,346	4,664	40%
*Google Analytics Individual Qualification	DMA Certified Marketing Professional	Consumer Merchandising/Retailing Management	Business Administration		Real Estate Agents	\$60,040	4,190	17%
*Customer Service Certification	Certified Salesperson	International Marketing	Applied Economics		Insurance Sales Agent	\$43,181	5,886	30%
*Real Estate Sales Agent License	Real Estate Appraise	Business	Marketing Research	Advertising	First-Line Supervisors Research Analysts	\$72,550	2,826	15%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Wholesale and Retail Buyers	\$51,106	1,299	19%
For more information on postsecondary options for this program of study, visit					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: Intern at a Marketing firm Shadow a Real Estate Agent		

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



The Business, Marketing and Finance Career Cluster® focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations, interior design, and construction management.

Successful completion of the Marketing and Sales program of study requirements of the Business and Industry Endorsement Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	9-11
Fundamentals of Real Estate	N1301120 (2 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD

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

Dale Fowler/Dale.Fowler@tea.texas.gov

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Business & Industry Endorsement

CAREER CLUSTER

PROGRAM OF STUDY

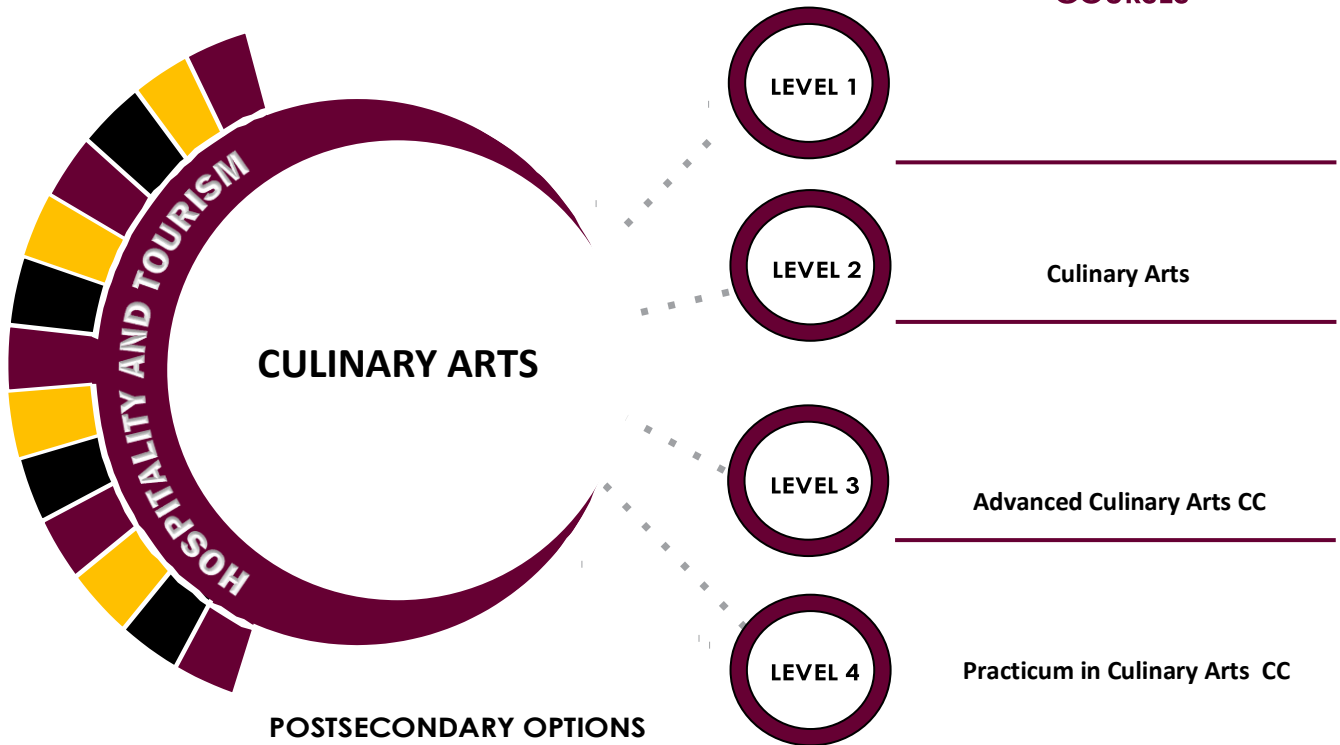


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COURSES



HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
*ServSafe Manager	Comprehensive Food Safety	Culinary Arts	Hospitality Administration/ Management, General		Food Service Managers	\$55,619	1,561	28%
Certified Fundamentals Cook	Certified Chef	Hotel and Restaurant Management			Chef and Head Cooks	\$43,285	1,366	25%
Certified Fundamentals Pastry Cook	*Commercial Cooking Certificate-STC	Restaurant Culinary and Catering Management	Food Service Systems Administration/ Management		Food Science Technicians	\$34,382	236	11%
ManageFirst Professional	Foodservice Management Professional	Culinary Arts/ Chef Training	Culinary Science and Food Service Management	Business Administration Management	Food and Beverage Managers	\$35,629	1,561	28%
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD.					Exploration Activities: FCCLA SkillsUSA	Work Based Learning Activities: Plan a catering event Work for a restaurant or catering company 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.



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

Successful completion of the Culinary Arts program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Culinary Arts	13022600 (2 credits)	None	10-12
Advanced Culinary Arts CC	13022650 (2 credits)	PREQ: Culinary Arts	11-12
Practicum in Culinary Arts CC	13022700 (2 credits)	PREQ: Adv. Culinary Arts CC	12

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

Debbie Wieland/Debbie.Wieland@tea.texas.gov

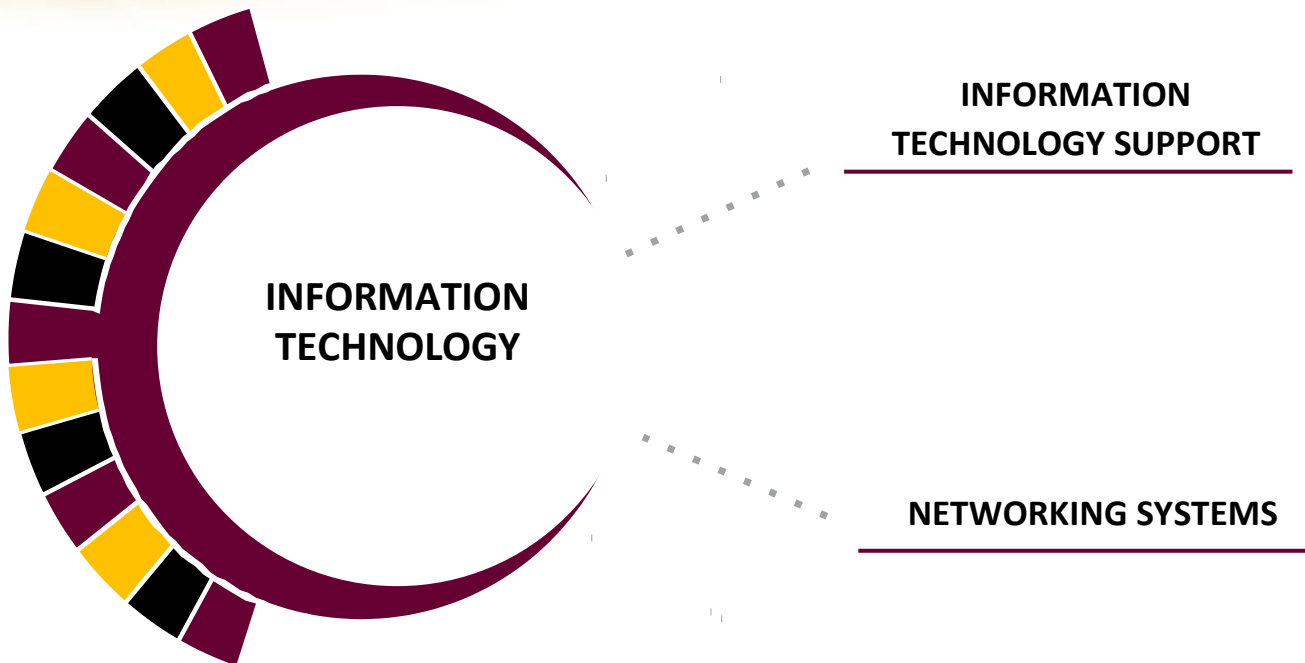
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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY



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COURSES

- LEVEL 1** Principles of Information Technology

- LEVEL 2**

- LEVEL 3** Computer Technician Practicum I

- LEVEL 4** Computer Technician Practicum II

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
*Microsoft Technology Associate (MTA) Window Operating System Fundamentals	IBM Certified Specialist InfoSphere Option for Distributed Systems fundamentals	Computer and Information Sciences, General			Database Administrators	\$83,075	1,063	19%
*Comp TIA A+ *Comp TIA IT Fundamentals	HP ASE ProLiant Server Solutions Integrator V2	Information Technology	Computer Engineering, General		Computer Hardware Engineers	\$111,738	343	24%
*MTA Intro. to Programming Using Python	Oracle Linus 6 Advanced System Administration	Computer Systems Networking and Telecommunications			Computer System Analysts and Support	\$87,568	5,937	29%
*MTA Intro. to Programming Using HTML & CSS	*MTA Intro. to Programming Using JAVA		Computer Systems Networking and Telecommunications		WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Exploration Activities: Join TSA, BPA Job shadow a database administrator or computer hardware engineer	Work Based Learning Activities: Intern with a Computer Technician Earn certifications		
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.								

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.



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

Successful completion of the Information Technology Support and Services program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Information Technology	13027200 (1 credit)	None	9-10
Computer Technician Practicum I	13027500 (2 credits)	None	10-12
Computer Technician Practicum II	13027510 (2 credits)	PREQ: Computer Technician Practicum I	12

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

Laura Torres/Laura.Torres@tea.texas.gov

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COURSES

LEVEL 1

Principles of Information Technology

LEVEL 2

LEVEL 3

Networking/Lab

LEVEL 4

Practicum in Information Technology

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
*Microsoft Technology Associate (MTA) Networking Fundamentals	Cisco Certified Entry Networking Specialist	Computer and Information Sciences, General			Computer Network Architects	\$111,633	1,082	23%
*MTA Security Fundamentals	Oracle Certified Database Associate	Cybersecurity		Information Technology	Computer Systems Analysts	\$87,568	5,937	29%
*Comp TIA Security+	Cisco Certified Entry Networking Technician	Information Technology	Computer and Information Systems Security/Information Assurance		Computer Network Support Specialists	\$68,037	1,824	19%
*MTA Window Operating Systems Fundamentals	*MTA Intro. to Programming Using JAVA	Network and System Administration	Computer Engineering, General		WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Exploration Activities:	Work Based Learning Activities:		
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.					Job shadow a computer network architect or support specialist	Intern with a computer Network architect or Support Specialist Earn certifications		

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.



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

Successful completion of the Networking Systems program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Information Technology	13027200 (1 credit)	None	9-10
Networking/Lab	13027410 (2 credits)	None	10-12
Practicum in Information Technology	13028000 (2 credits)	PREQ: Minimum of two IT courses	12

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

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

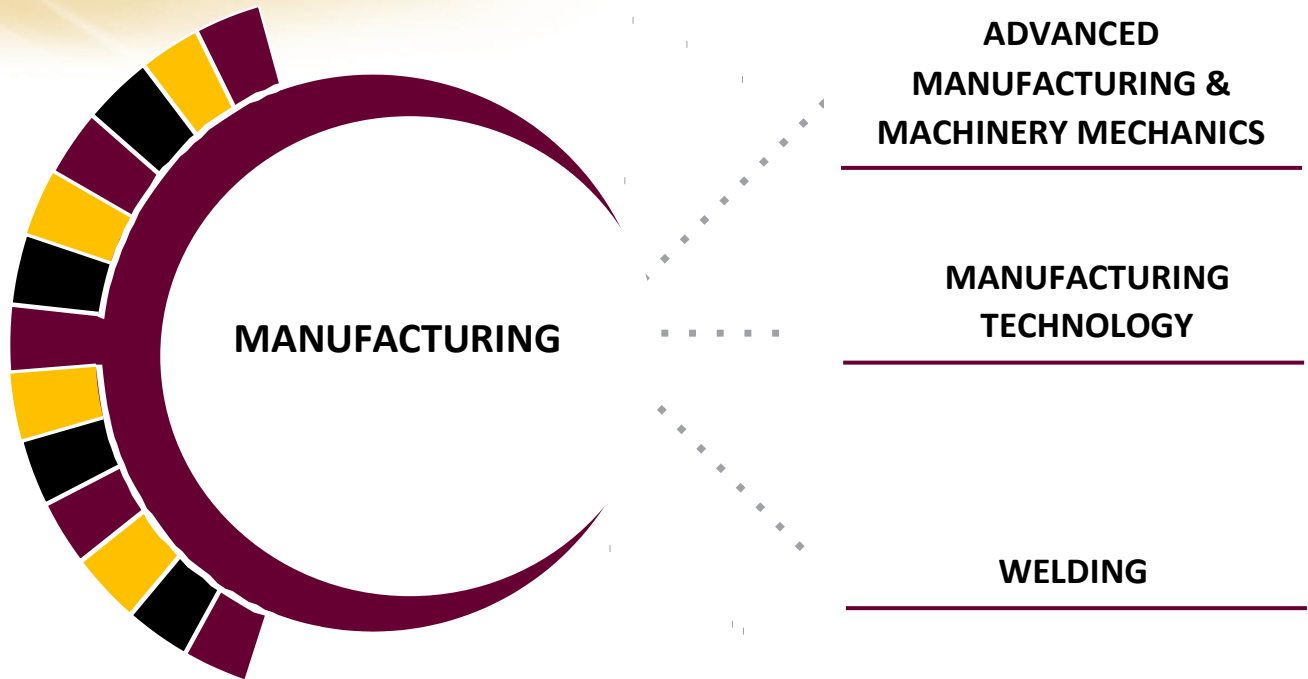
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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY



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COURSES

- LEVEL 1** Principles of Applied Engineering

- LEVEL 2** Robotics I

- LEVEL 3** Robotics II

- LEVEL 4** Practicum in Manufacturing

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
*NIMS Machining Level 1-Materials, Measurement and Safety	Engineer, Professional	Electro-Mechanical Engineering/Technology	Electrical Engineering		Electro Mechanical Assemblers	\$30,160	951	9%
*NIMS Industrial Technology Maintenance - Maintenance Operations	*NIMS Industrial Technology Maintenance – Basic Mechanical Systems	Instrumental Technology Technician	Industrial Engineering		Electro Mechanical Technicians	\$56,555	127	9%
FANUC Robot, Operator 1	Certified Quality Technician	Industrial Mechanics & Maintenance Technology	Mechanical Engineering		Industrial Machinery Mechanics	\$49,816	3,788	27%
Mastercam Associate Level Certification	Mechatronics Programmable Logic Controllers	Robotics Technology/Technician	Engineering, General					
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					<p align="center">WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES</p> <p>Exploration Activities: SkillsUSA, STEM/Robotics Competitions</p> <p>Work Based Learning Activities: Job shadow a mechanical technician, Apprenticeship at a local industry</p>			
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.								

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



The Manufacturing Career Cluster® focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Successful completion of the Advanced Manufacturing and Machinery Mechanics program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

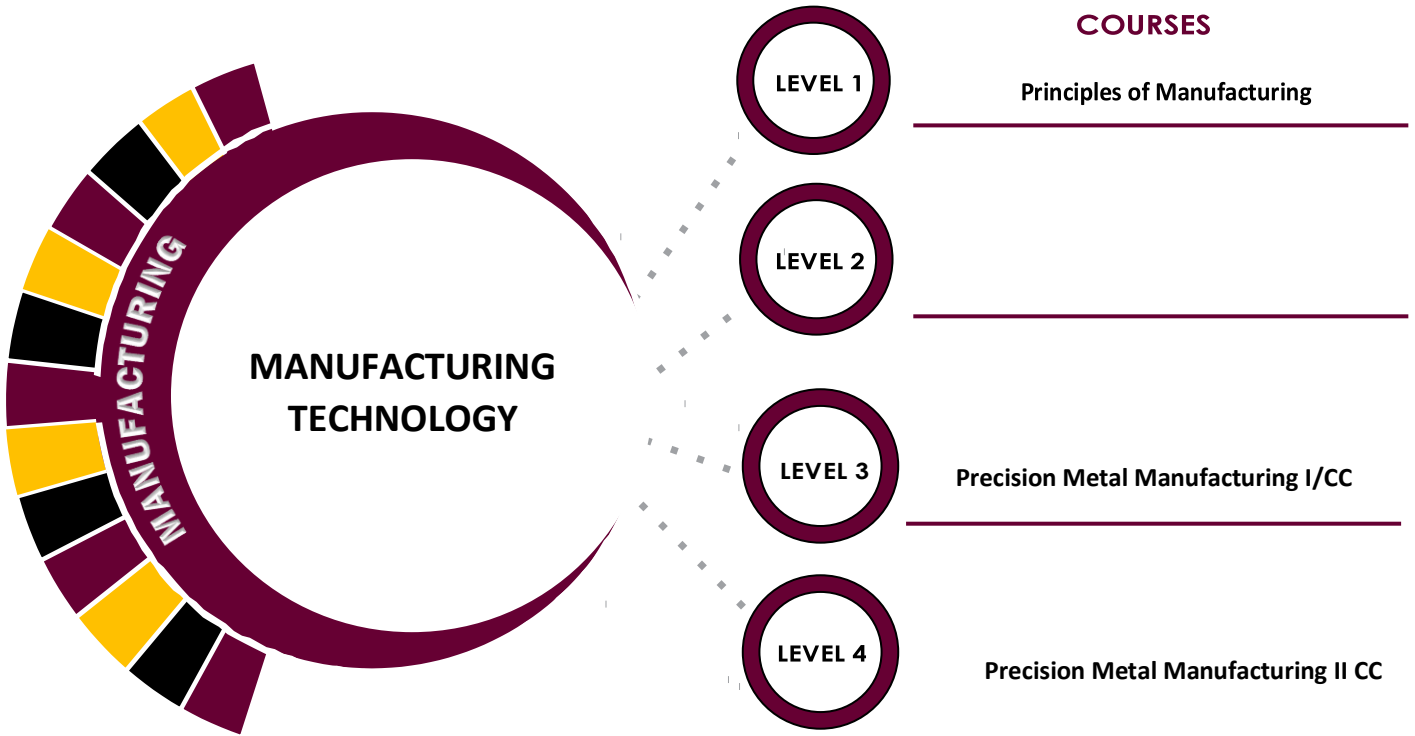
COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Applied Engineering	13036200 (1 credit)	None	9-10
Robotics I	13037000 (1 credit)	None	9-10
Robotics II	13037050 (1 credit)	PREQ: Robotics I	10-12
Practicum in Manufacturing	13033000 (2 credits)	None	12

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

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COURSES

Principles of Manufacturing

LEVEL 1

LEVEL 2

LEVEL 3

Precision Metal Manufacturing I/CC

LEVEL 4

Precision Metal Manufacturing II CC

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
*NIMS Machining Level 1-Materials, Measurement and Safety	NIMS Industrial Technology Maintenance - Basic Mechanical Systems		Environmental Health		Mechanical Engineering Technicians	\$57,117	453	9%
*NIMS Machining Level 1- CNC Milling Operations	Certified Environmental, Safety, and Health Trainer	Machine Shop Technology/ Assistant	Biomedical Technology/ Technician	Occupational Health and Industrial Hygiene	CNC Machine Operators	\$39,250	1,319	12%
*NIMS Machining Level 1- Drill Press Skills	Fast Start Precision Manufacturing	Precision Manufacturing Technology	Mechanical Engineering Manufacturing Engineering		Aerospace Engineering and Operations Technicians	\$60,757	114	9%
*STC Precision Manufacturing Technology Certificate	Mechatronics Technology Specialist		Operations Management and Supervision		Electrical Engineering	\$60,382	1,439	9%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Industrial Engineering	\$61,672	326	9%
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
					Exploration Activities: SkillsUSA	Work Based Learning Activities: Job shadow a machinist Apprenticeship at a local industry		

The Manufacturing Technology program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. Students will learn how to set up and operate a variety of machine tools to produce precision parts and instruments. Students will also learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.



The Manufacturing Career Cluster® focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Successful completion of the Manufacturing Technology program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

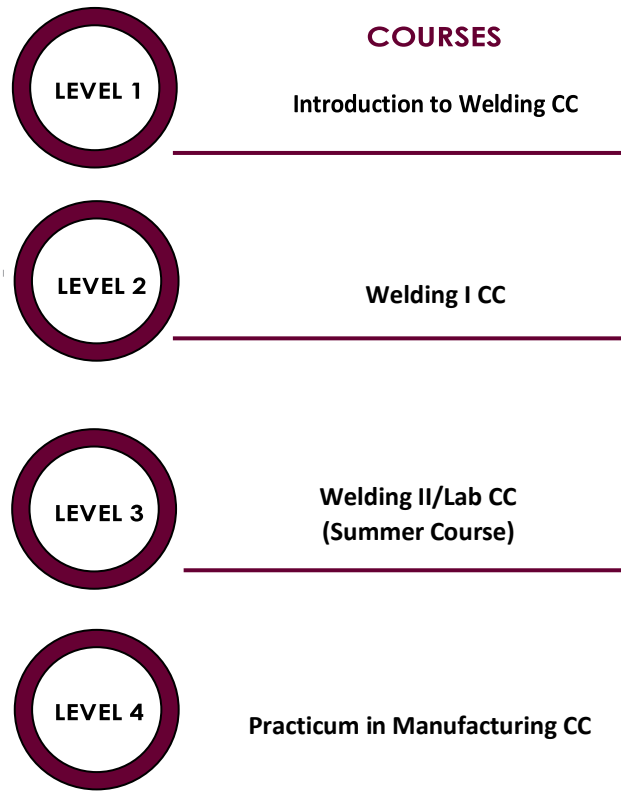
COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Manufacturing	13032200 (1 credit)	None	9-12
Precision Metal Manufacturing I/CC	13032500 (2 credits)	None	11
Precision Metal Manufacturing II CC	13032600 (2 credits)	PREQ: Precision Metal Manufacturing I CC	12

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

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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
*NIMS Machining Level 1-Materials, Measurement and Safety	Certified Welder/ Welder Inspector	Welding Technology/ Welder	Welding Engineering Technology/Technician		Welders, Cutters, Solderers, and Brazers	\$41,350	6,171	9%
*AWS Certified Welder, D1.1	ASW SENSE Level 1	Machine Shop Technology/ Assistant	Biomedical Technology/ Technician	Occupational Health and Industrial Hygiene	Welding, Soldering and Brazing Machine Setters, Operators and Tenders	\$40,040	280	9%
*AWS Certified Welder, D9.1	Certified Welding Engineering	Operations Management and Supervision			Production and Operating Technicians	\$62,171	5,094	9%
*STC Structural Welding Certificate	Combination Welding Certificate	Occupational Safety and Health Technology/ Technician	Environmental Health		<p align="center">WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES</p> <p>Exploration Activities: SkillsUSA</p> <p>Work Based Learning Activities: Job shadow a welder Apprenticeship at a local industry</p>			
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD.								

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

The Manufacturing Career Cluster® focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Successful completion of the Welding program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Introduction to Welding CC	13032250 (1 credit)	None	11
Welding I CC	13032300 (2 credits)	CREQ: Introduction to Welding CC	11
Welding II CC	13032400 (2 credits)	PREQ: Introduction to Welding CC and Welding I CC	11
Welding II CC/Lab	13032410 (3 credits)		
Practicum in Manufacturing CC	13033000 (2 credits)	PREQ: Introduction to Welding CC, Welding I CC, and Welding II CC/Lab	12

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

Lee Hudson/Lee.Hudson@tea.texas.gov

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

<http://www.donnaisd.net/Community/Graduation-Plans>

Business & Industry Endorsement

CAREER CLUSTER

PROGRAM OF STUDY

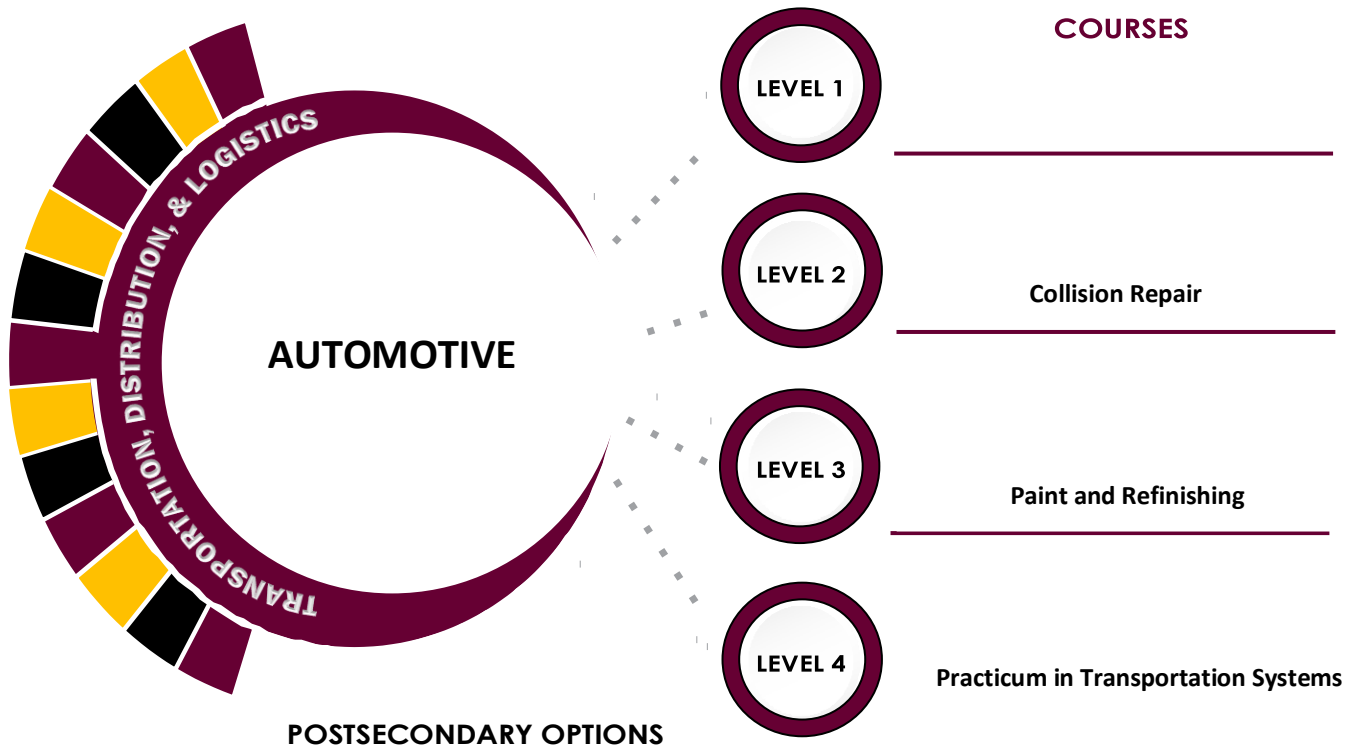


..... AUTOMOTIVE

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.

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 Perkins V 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
*Commercial Driver's License, Class A & B	Master Collision Repair and Refinishing Technician	Autobody/ Collision and Repair Technician		Mechanical Engineering	Automotive Body and Related Repairers	\$40,144	1,456	25%
*OSHA 30 Hour General Industry	*ASE Safety Service	Mechanical Engineering/ Mechanical Technology/Technician			Automotive Service Technician and Mechanics	\$38,459	5,557	18%
*ASE Suspension & Steering, Entry Level	*ASE Pollution Prevention	Medium/Heavy Vehicle and Truck Technician						
*FAA Certified Part 107 Remote Drone Pilot	*ASE Engine Repair, Entry Level							
*Certification offered at DISD/*ASE offered at STISD, a partner school. Additional Industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES Exploration Activities: SkillsUSA Automotive Service Association (ASE) Work Based Learning Activities: Job shadow a mechanic Work at a local automotive repair or body shop			
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.								

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.



The Transportation, Distribution, and Logistics Career Cluster® focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Successful completion of the Automotive program of study will fulfill requirements of the Business and Industry Endorsement Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Collison Repair	13039800 (2 credits)	None	10-12
Paint and Refinishing	13039900 (2 credits)	None	10-12
Practicum in Transportation Systems	13040450 (2 credits)	None	11-12
Practicum in Transportation Systems/Extended Practicum in Transportation Systems	13040455 (3 credits)		

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>

<http://www.donnaisd.net/Community/Graduation-Plans>

Public Services Endorsement

CAREER CLUSTER

PROGRAM OF STUDY

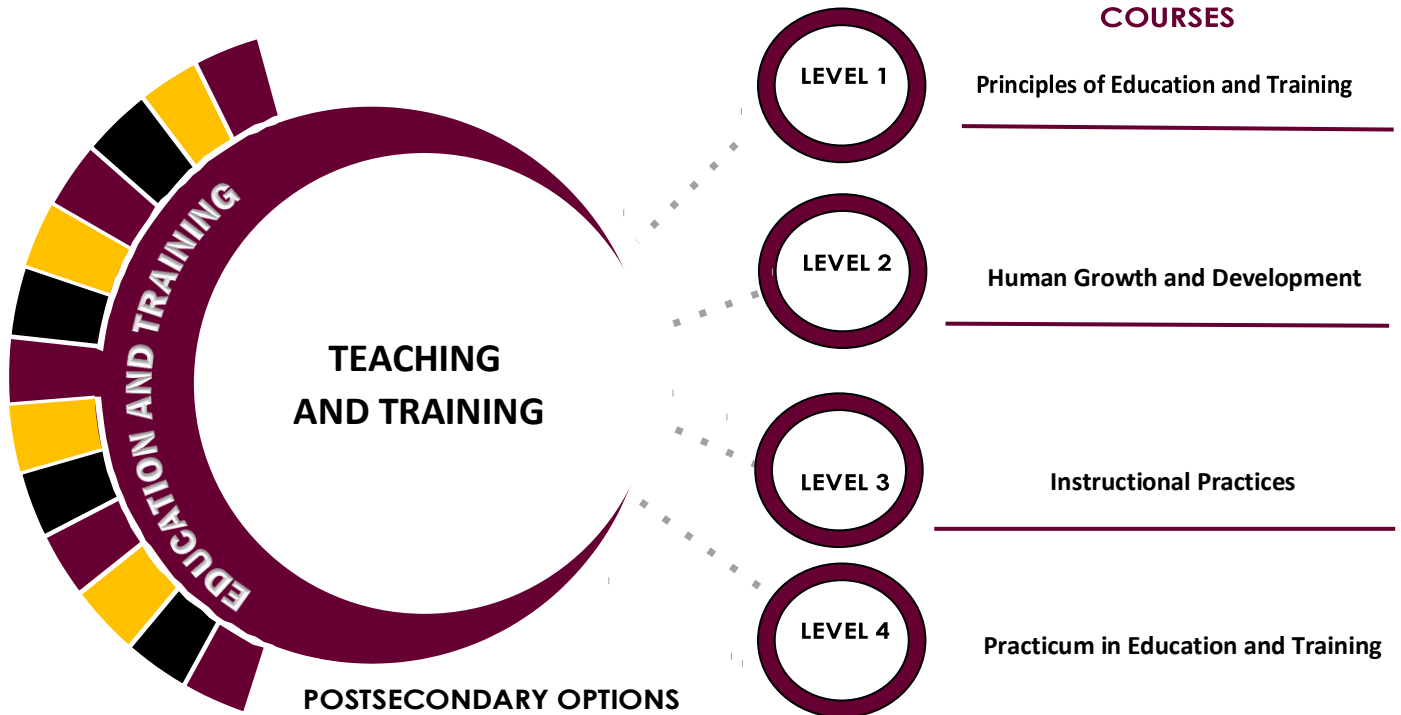


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COURSES



HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
*Certified Substitute Teacher (Region One Academy)	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 Aide I	Educational Instructional Technology	Education, General (or specific subject area)		Educational Leadership and Administration, General	Middle School Teachers	\$54,510	6,407	15%
	Counselor, Professional	Special Education			Special Education Teachers	\$56,720	980	18%
	Athletic Trainer	Health and Physical Education/Fitness	Social and Philosophical Foundations of Education		Educational Administrators	\$79,830	2,407	16%
*Certification offered at DISD. 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 , your counselor, or the CTE department at DISD.					Exploration Activities: Texas Association of Future Educators, FCCLA	Work Based Learning Activities: Job shadow a teacher Volunteer as a teacher assistant		

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.



The Education and Training Career Cluster® focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.

Successful completion of the Teaching and Training program of study will fulfill requirements of the Public Services Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Education and Training	1314200 (1 credit)	None	9-10
Human Growth and Development	13014300 (1 credit)	None	10 -12
Instructional Practices	13014400 (2 credits)	None	11-12
Practicum in Education and Training	13014500 (2 credits)	PREQ: Instructional Practices	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>

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Public Services Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY



HEALTH SCIENCE

HEALTH INFORMATICS

HEALTHCARE DIAGNOSTICS

HEALTHCARE THERAPEUTIC

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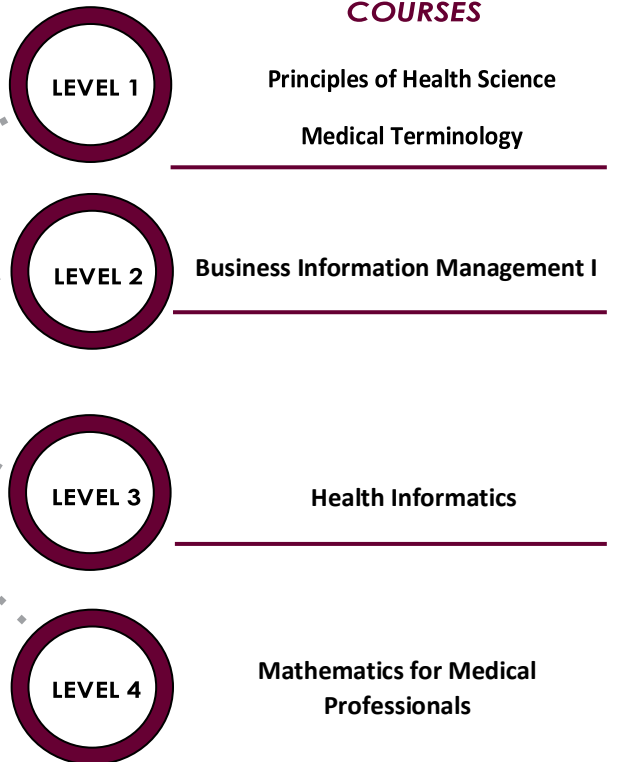




HEALTH INFORMATICS

POSTSECONDARY OPTIONS

COURSES



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 Billing and Coding	Medical Transcriptionist				Medical Records and Health Information Technicians	\$35,922	1,588	24%
Certified Coding Associate	Certified Professional in Informatics	Health Information/ Medical Records Technology/ Technician	Medical and Health Service Managers		Medical and Health Service Managers	\$93,995	2,562	29%
					Billing and Posting Clerks	\$35,485	5,775	25%
					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
					Exploration Activities: HOSA SkillsUSA	Work Based Learning Activities: Job shadow a healthcare professional Volunteer at a hospital, Assisted Living, or nursing home		
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD.								

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.



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Health Informatics program of study will fulfill requirements of the Public Services Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Business Information Management Systems I	13011400 (1 credit)	None	9-12
Health Informatics	13020960 (1 credit)	PREQ: BIM I and Medical Terminology	11-12
Mathematics for Medical Professionals	13020970 (1 credit)	PREQ: Geometry and Algebra II	11-12

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

Kevin Johnson/Kevin.Johnson@tea.texas.gov

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COURSES
Principles of Health Science



Medical Terminology



Health Science Theory
Medical Microbiology



Anatomy/Physiology
Pathophysiology
Practicum in Health Science

POSTSECONDARY OPTIONS

HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
*Certified EKG/ECG Technician	Radiologic Technologist	Magnetic Resonance Imaging (MRI) Technology/ Technician	Medical Radiologic Technology/ Science/ Radiation Therapist	Radiologic Technology/ Science – Radiographer
*Phlebotomy Technician				
Limited Licensed Radiology Technologist	Medical Sonographer	Nuclear Medical Technology/ Technologist		Radiologist
Medical Laboratory Technician				
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
EKG/ECG Technicians	\$50,880	400	21%
Phlebotomists	\$30,597	1,442	36%
Diagnostic Medical Sonographers	\$69,909	495	35%
Nuclear Medicine Technologists	\$75,962	91	13%
Radiologic Technologists	\$55,494	1,196	19%
MRI Technologists	\$68,661	217	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities: HOSA, SkillsUSA, Tour a healthcare Facility

Work Based Learning Activities: Job shadow a healthcare professional, Volunteer at a hospital, Assisted Living, or 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.



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Healthcare Diagnostics program of study will fulfill requirements of the Public Services Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Health Science Theory	13020400 (1 credit)	PREQ: Biology	10-12
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Anatomy/Physiology	13020600 (1 credit)	PREQ: Biology and a second science credit	10-12
Pathophysiology	13020800 (1 credit)	PREQ: Biology and Chemistry	10-12
Practicum in Health Science/Extended Practicum in Health Science	13020505 (3 credits)	PREQ: Biology, Health Science Theory	11-12

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

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COURSES
Principles of Health Science



Medical Terminology



Health Science Theory
Medical Microbiology
Anatomy/Physiology



Pathophysiology
Pharmacology
Practicum in Health Science

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 Pharmacy Technician	Pharmacy Aides	Biology		Pharmacist	Medical Assistants	\$29,598	8,862	30%
*Certified Nurse Aide/Nurse Assistant	Surgical Technologist	Science, Pre-Med		Family and General Practitioner	Dental Hygienists	\$73,507	1,353	38%
*Certified Clinical Medical Assistant	Registered Dental Assistant	Dental Hygienist	Science, Pre-Dental	Dentist	Surgical Technologists	\$48,420	1,150	20%
Certified Patient Care Technician	Registered Dental Assistant			Physician Assistant	Pharmacists	\$127,020	1,320	15%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
HOSA
SkillsUSA

Work Based Learning Activities:
Job shadow a healthcare professional
Volunteer at a hospital, Assisted Living, or nursing home



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Healthcare Therapeutic program of study will fulfill requirements of the Public Services Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Health Science Theory	13020400 (1 credit)	PREQ: Biology	10-12
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Anatomy/Physiology	13020600 (1 credit)	PREQ: Biology and a second science credit	10-12
Pharmacology	13020950 (1 credit)	PREQ: Biology and Chemistry	11-12
Pathophysiology	13020800 (1 credit)	PREQ: Biology and Chemistry	11-12
Practicum in Health Science	13020500 (2 credits)	PREQ: Biology, Health Science Theory	11-12
Practicum in Health Science/Extended Practicum in Health Science	13020505 (3 credits)		

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

Kevin Johnson/Kevin.Johnson@tea.texas.gov

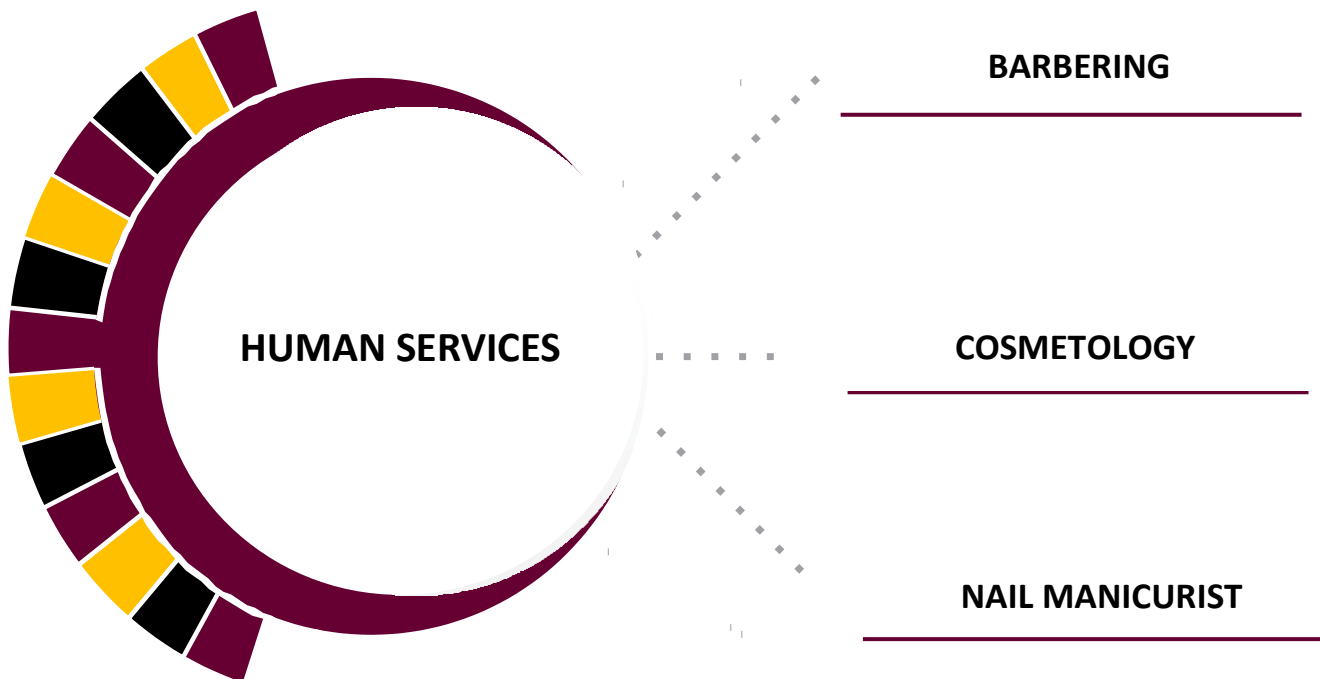
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Public Services Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY



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COURSES

LEVEL 1

LEVEL 2

LEVEL 3

LEVEL 4

- Barbering I
- Cosmetology I
- Cosmetology I/Lab
- Barbering II
- Cosmetology II
- Cosmetology II/Lab

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
*Barber Operator License		Barber/ Stylist, and Nail Instructor			Barber	\$28,150	1,340	20%
*Cosmetology- Nail Manicurist		Spa/Nail Manicurist			Cosmetologist	\$24,850	470	19%
*Cosmetology Operator License		Cosmetology/ Cosmetologist, General			Makeup Artists, Theatrical Actors, & Performers	\$42,320	40	10%
		Aesthetician/ Esthetician & Skin Care Specialist			Nail Manicurists	\$23,290	440	18%
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD.					Exploration Activities: SkillsUSA	Work Based Learning Activities: Intern in a salon Provide specialty classes in latest Cosmetology trends		

The Cosmetology & Personal Care Services program of study focuses on preparing individual for employment in career pathways related to personal care services. To pursue a career in cosmetology, students will learn to provide beauty services, such as shampooing, cutting coloring and styling hair, and massaging and treating scalp. They will learn to apply makeup, dress wigs, perform hair removal and provide nail and skin care services.



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

Successful completion of the Cosmetology & Personal Care Services program of study will fulfill requirements of the Public Services Endorsement – Approved Statewide Regional Program of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Barbering I	N1302534 (3 credits)	None	11
Barbering II	N1302535 (3 credits)	PREQ: Barbering I	12
Cosmetology I (Nail Manicurist)	13025200 (2 credits)	None	11
Cosmetology II (Nail Manicurist)	13025300 (2 credits)	PREQ: Cosmetology I	12
Cosmetology I/Lab (Cosmetology Operator)	13025210 (3 credits)	None	11
Cosmetology II/Lab (Cosmetology Operator)	13025310 (3 credits)	PREQ: Cosmetology I/ Lab	12

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

Debbie Wieland/Debbie.Wieland@tea.texas.gov

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

<http://www.donnaisd.net/Community/Graduation-Plans>

Public Services Endorsement

CAREER CLUSTER

PROGRAM OF STUDY



LAW ENFORCEMENT

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COURSES

LEVEL 1

Principles of Law, Public Safety, Corrections, and Security

LEVEL 2

Law Enforcement I

Criminal Investigations

LEVEL 3

Law Enforcement II

Correctional Services CC

LEVEL 4

Forensics Science

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
*Non-Commissioned Security Guard, Level II	Law Enforcement Officer	Criminal Justice/Safety Studies/ Law Enforcement Administration			Police and Sheriff's Patrol Officers	\$60,112	5,241	13%
*International Academy of Emergency Dispatch (IAED) Emergency Telecommunicator	Private Investigator/ Security Guard	Criminal Justice/ Police Science/ Criminal Science			Probation Officers and Correctional Treatment Officers	\$44,054	793	9%
*NECC 911 (National Emergency Communication Certificate 911)	Code Enforcement Officer	Corrections	Juvenile Corrections	Natural Resources Law Enforcement and Protective Services	Correctional Officers and Jailers	\$40,186	4,683	9%
					Immigration and Customs Inspectors	\$78,104	1,236	9%
		Cyber/Computer Forensics and Counterterrorism			Supervisors of Police and Detectives	\$91,312	253	25%
*Certification offered at DISD. 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, your counselor, or the CTE department at DISD.					Exploration Activities:	Work Based Learning Activities:		
					Texas Public Service Association; SkillsUSA	Attend court hearings and other legal procedures. Intern with law enforcement agencies		

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.



The Law and Public Service Career Cluster® focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

Successful completion of the Law Enforcement program of study will fulfill requirements of the Public Services Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) REC. PREREQUISITES (RPREQ)	GRADE
Principles of Law, Public Safety, Corrections, & Security	13029200 (1 credit)	None	9-12
Law Enforcement I	13029300 (1 credit)	None	10-12
Criminal Investigations	13029550 (1 credit)	None	10-12
Law Enforcement II	13029400 (1 credit)	RPREQ: Law Enforcement I	10-12
Correctional Services CC	13029700	RPREQ: Principles of Law, Public Safety, Corrections, & Security	10-12
Forensics Science	13029500 (1 credit)	PREQ: Biology and Chemistry	11-12

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

Debbie Wieland/Debbie.Wieland@tea.texas.gov

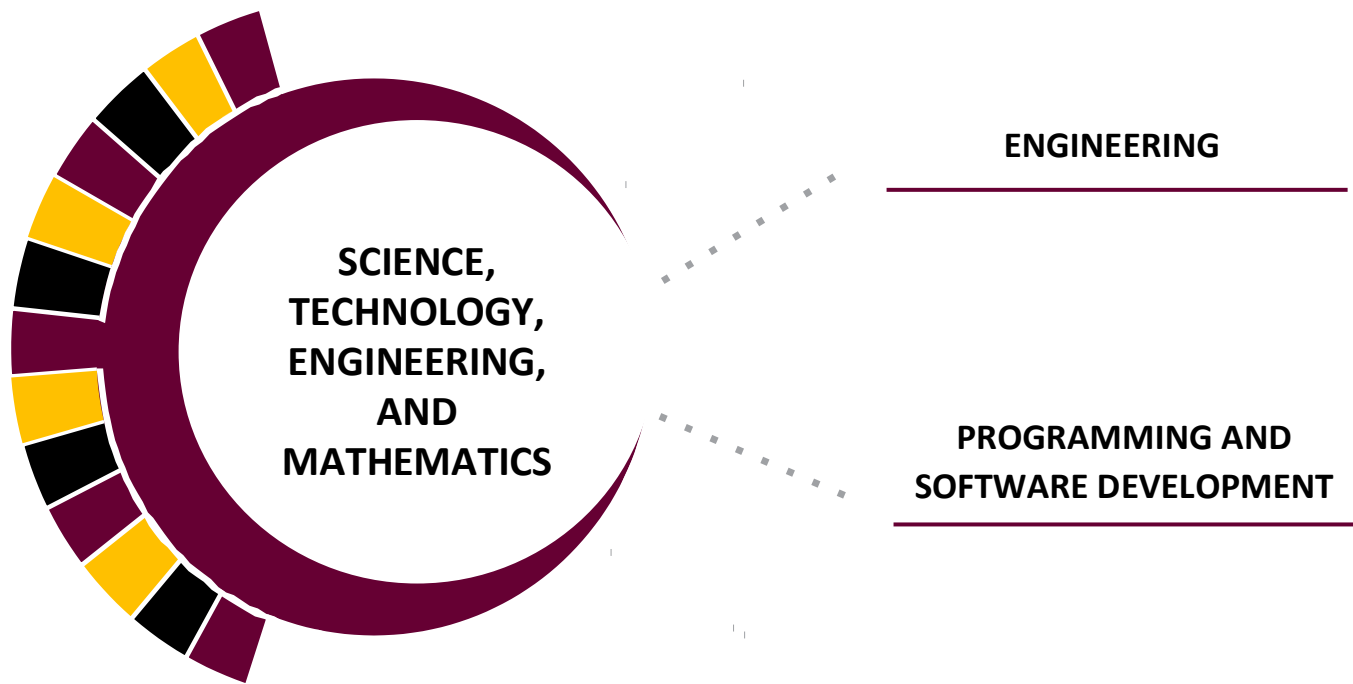
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Science, Technology, Engineering & Mathematics Endorsement

CAREER CLUSTER

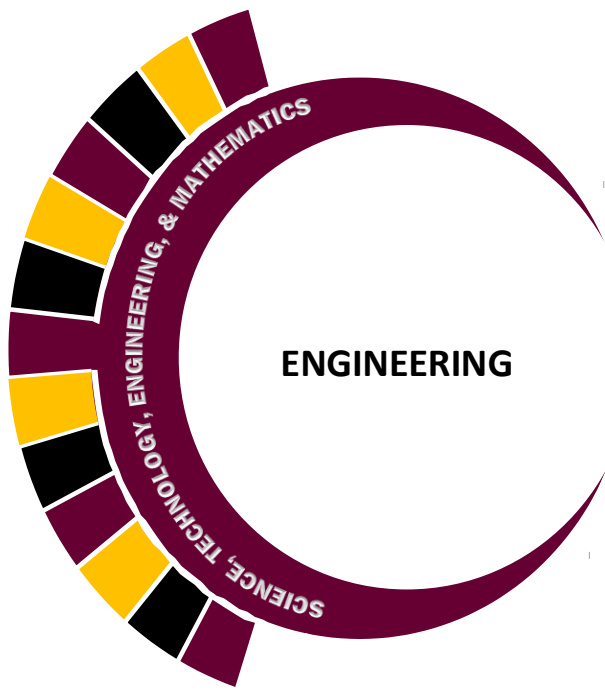
PROGRAMS OF STUDY



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COURSES



Principles of Applied Engineering



Digital Electronics



Engineering Design and Problem Solving

Practicum in STEM

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 SolidWorks Associate (CSWA)	Fluid Power Systems Designer	Drafting and Design Technician, General	CAD/CADD Drafting and/or Design Technician	Mechanical Engineering	Aerospace Engineers	\$110,843	481	9%
*NIMS Machining Level 1-Materials, Measurements, & Safety	Certified Cost Estimator/Analyst		Construction Engineering Technician		Industrial Engineers	\$97,074	1,263	10%
Autodesk Certified Professional or User (ACU) - Inventor	Engineer, Professional	Electrical and Electronics Engineering	Electrical and Electronics Engineering	Electrical and Electronics Engineering	Mechanical Engineers	\$91,707	1,535	11%
Certified Engineering Technician - Audio Systems	Certified Biomedical Auditor	Engineering Technology	Bioengineering and Biomedical Engineering	Bioengineering and Biomedical Engineering	Chemical Engineers	\$112,819	474	9%
					Electrical Engineers	\$98,405	1,137	10%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES Exploration Activities: SkillsUSA Work Based Learning Activities: Engineering internship, Job shadow a machinist, Tour of engineering firm			
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.								

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.



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

Successful completion of the Engineering program of study will fulfill requirements of the Science, Technology, Engineering, and Mathematics Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Applied Engineering	13036200 (1 credit)	None	9-10
Digital Electronics	13037600 (1 credit)	PREQ: Algebra I and Geometry	10-12
Engineering Design and Problem Solving	13037300 (1 credit)	PREQ: Algebra I and Geometry	11-12
Practicum in STEM	13037400 (2 credits)	PREQ: Algebra I and Geometry	12

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

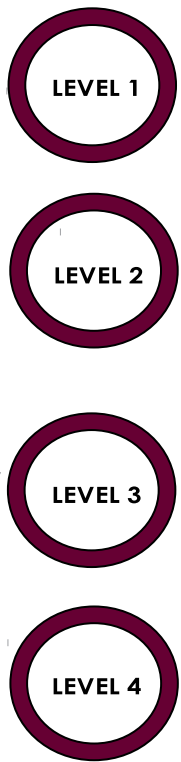
<https://tea.texas.gov/cte>

<http://www.donnaisd.net/Community/Graduation-Plans>



PROGRAMMING AND SOFTWARE DEVELOPMENT

COURSES



Fundamentals of Computer Science

Computer Science I CC

Computer Science II CC

Computer Science III CC

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
Oracle Certified Association JAVA SE 8 Programmer	Certified Computing Professional	Computer Programming/ Programmer General	Management Information Systems, General		Software Developers, Systems Software	\$103,334	2,985	25%
*Microsoft Technology Associate-Intro. to Programming Using Python, HTML, or CSS	AEM 6 Developer	Computer Science			Software Developers, Applications	\$104,499	6,311	30%
*Microsoft Technology Associate-Intro. to Programming Using JAVA or JAVA Script	Certified Software Analyst	Information Science/Studies			Computer Programmers	\$79,893	1,454	9%
Oracle Certified Database Associate	Cloud Technology Associate	Computer Software Engineer			WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Exploration Activities:	Work Based Learning Activities:		
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.					SkillsUSA	Programming internship		
					Coding Club	Job shadow		
						Tour of engineering firm		

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



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

Successful completion of the Programming and Software Development program of study will fulfill requirements of the Science, Technology, Engineering, and Mathematics Endorsement – Approved Statewide Programs of Study – September 2019.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Fundamentals of Computer Science	03580140 (1 credit)	None	9-12
Computer Science I CC	03580200 (1 credit)	PREQ: Algebra I	9-12
Computer Science II CC	03580300 (1 credit)	PREQ: Algebra I, Computer Science I CC	11-12
Computer Science III CC	03580350 (2 credits)	PREQ: Computer Science I CC and Computer Science II CC	12





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

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

<http://www.donnaisd.net/Community/Graduation-Plans>

Industry Certifications and Licenses by Endorsement

(*Performance Acknowledgment-Meets CCMP)

Business & Industry Endorsement	
<p>Agriculture, Food, & Natural Resources</p> <ul style="list-style-type: none"> • *Certified Veterinarian Assistant, Level 1 Veterinary Medical Technician-TVMA • *Noncommercial Pesticide Applicator • *OSHA 30 Hour General Industry • Texas Beef Quality Assurance (Texas Beef Council, Texas & Southwest Cattle Raisers Association & Texas AgriLife Extension) • *Texas State Floral Association Level One Floral Certification • *Texas State Floral Association Floral Skills Knowledge Based Certification <div style="text-align: center;">  </div>	<p>Architecture and Construction</p> <ul style="list-style-type: none"> • *Autodesk Certified Professional or User in AutoCAD • *OSHA 30 Hour Construction • Architectural and Civil Engineering Technology Certificate – STC Dual Credit <div style="text-align: center;">  </div>
<p>Arts, Audio Video Technology and Communications</p> <ul style="list-style-type: none"> • *Adobe Certified Associate – Photoshop (Visual Design using Adobe Photoshop) • *Adobe Certified Associate- Premiere Pro (Digital Video using Adobe Premiere) • *Adobe Certified Associate-Visual Design Specialist – 3 Exams (Illustrator + InDesign + Photoshop) <div style="text-align: center;">  </div>	<p>Business, Marketing and Finance</p> <ul style="list-style-type: none"> • *Intuit QuickBooks Certified User • *Microsoft Office Specialist Word Expert • *Microsoft Office Specialist Excel Expert • *Microsoft Office Master • *Microsoft Office Specialist Word • *Microsoft Office Specialist Excel • Microsoft Office Specialist PowerPoint • *Real Estate Sales Agent License • Customer Service Certification – STC • Google Analytics Individual Qualification <div style="text-align: center;">  </div>

Business & Industry Endorsement

Hospitality & Tourism

- ServSafe Food Handler Certification
- *ServSafe Manager
- Commercial Cooking Certificate – STC Dual Credit



Information Technology

- *Comp TIA A+ Certification
- *Comp TIA Network+
- *Comp TIA Security+
- *Microsoft Technology Associate (MTA) Introduction to Programming Using HTML
- *Microsoft Technology Associate (MTA) Introduction to Programming Using JAVA
- *Microsoft Technology Associate (MTA) Introduction to Programming Using Python
- *Microsoft Technology Associate (MTA) Networking Fundamentals
- *Microsoft Technology Associate (MTA) Security Fundamentals
- *Microsoft Technology Associate (MTA) Windows Operating System Fundamentals
- *Microsoft Technology Associate (MTA) Windows Server Administration Fundamentals



Manufacturing

- ARC Plug Welding (STISD ½ Day Program)
- *AWS D1.1 Structural Steel (American Welding Society)
- *AWS D9.1 Sheet Metal Welding (American Welding Society)
- NIMS Machining Level 1, Job Planning, Benchwork & Layout
- *NIMS, Machining Level 1, Measurement, Materials and Safety
- *NIMS, Machining Level 1 – CNC Milling Operations
- *NIMS Machining Level 1 – Drill Press Skills
- *OSHA 30 Hour General Industry
- Precision Manufacturing Technology Certificate – STC Dual Credit
- Structural Welding Certificate – STC Dual Credit







Transportation

- *ASE Engine Repair (STISD ½ Day Program)
- *ASE Entry-Level: Engine Repair (ER) (STISD ½ Day Program)
- *ASE Entry-Level Suspension & Steering (STISD ½ Day Program)
- ASE Safety Service (STISD ½ Day Program)
- *ASE Suspension & Steering (STISD ½ Day Program)
- ASE Service Pollution Prevention (STISD ½ Day Program)
- Commercial Driver's License, Class A & B
- *FAA Certified Part 107 Remote Drone Pilot
- *OSHA 30 Hour General Industry
- Valvoline Ignition Program (STISD ½ Day Program)



Industry Certifications and Licenses by Endorsement

(*Performance Acknowledgment-Meets CCMP)

Public Service Endorsement	
<p>Education & Training</p> <ul style="list-style-type: none"> • Substitute Teacher Academy –Region One • Educational Aide I <div style="text-align: center; margin-top: 20px;">  </div>	<p>Health Science</p> <ul style="list-style-type: none"> • Basic Life Support – American Heart Assoc. • *Certified EKG/EGG Technician • *Certified Pharmacy Technician (CPhT) • *CMA–Certified Medical Assistant • *CNA – Certified Nurse Aide/Assistant • CPR Certification – American Heart Assoc. • HIPAA Certification • *Medical Coding & Billing Specialist • OSHA Bloodborne Pathogens Certification • *Patient Care Technician (STISD ½ Program) • *Phlebotomy Technician, Certified (CPT) <div style="text-align: center; margin-top: 20px;">  </div>
<p>Human Services</p> <ul style="list-style-type: none"> • *Barber Operator License – TDLR • *Cosmetology Operator License - TDLR • *Nail Manicurist Specialty License – TDLR <div style="text-align: center; margin-top: 20px;">  </div>	<p>Law and Public Service</p> <ul style="list-style-type: none"> • *FAA Certified Part 107 Remote Drone Pilot • *International Academy of Emergency Dispatch (IAED) Emergency Telecommunicator • NECC 911 (National Emergency Communication Certificate 911) • *Non-Commissioned Security Officer, Level 2 (Texas Department of Public Safety/Private Security Bureau) <div style="text-align: center; margin-top: 20px;">  </div>

Industry Certifications and Licenses by Endorsement

(*Performance Acknowledgment-Meets CCMP)

STEM Endorsement

Engineering

- *Microsoft Technology Associate (MTA)
Introduction to Programming Using HTML
- *Microsoft Technology Associate (MTA)
Introduction to Programming Using JAVA
- *Microsoft Technology Associate (MTA)
Introduction to Programming Using Python
- *NIMS (National Institute of Metal Working Skills) Machining Level 1 –
Measurement, Materials & Safety
- *SolidWorks Certified Associate (CSWA)



Final List of Industry-Based Certifications approved by TEA can be found at https://tea.texas.gov/sites/default/files/Industry_Based_Certifications.pdf

CTE Dual Credit Courses

High School Course	Architecture Architectural & Civil Engineering Technology Certificate (*STC)	Credit Hrs. Earned
Architecture Design II CC Service ID: 13004700 HS Code: CCB4700	Jrs.-Fall-DFTG 1409 – Basic Computer Aided Drafting	4
	Jrs.-Spring DFTG 1315 – Architectural Blueprint & Sketching	3
Practicum of Architecture Design CC Service ID: 13004800 HS Code: CCB4800	Srs.-Fall ARCE 1421- Architectural Illustration	4
	Srs.-Spring DFTG 1493 – Intro. to Civil Drafting	4
	Srs.-Spring ARCH 1311 – Intro. to Architecture	3
	Total Hours Earned	18
High School Course	Culinary Arts Commercial Cooking Certificate (*STC)	Credit Hrs. Earned
Advanced Culinary Arts CC Service ID: 13022650 HS Code: CCI2650	Jrs.-Fall CHEF 1301 – Basic Food Preparation	3
	Jrs.-Fall CHEF 1305 – Sanitation and Safety	3
	Jrs.-Spring PSTR 1301 – Fundamentals of Baking	3
	Jrs.-Spring Chef 1345-International Cuisine	3
Practicum in Culinary Arts I CC Service ID: 13022700 HS Code: CCI2700	Srs.-Fall BIOL 1322 – Nutrition and Diet Therapy I (Cohort 2021) Srs.-Fall CHEF 1391- Special Topics (Prof. Kitchen Ess.-Cohort 2022)	3
	Srs.-Fall CHEF 2301 – Intermediate Food Prep.	3
	Srs.-Spring CHEF 1264 – Capstone: Practicum I	2
	Srs.-Spring RSTO 2307 - Catering	3
	Total Hours Earned	23
High School Course	Precision Metal Manufacturing Precision Manufacturing Technology Certificate (*STC)	Credit Hrs. Earned
Precision Metal Manufacturing I CC Service ID: 13032500 HS Code: CCM2500	Jrs.-Fall DFTG 1325 – Blueprint Reading & Sketching	3
	Jrs.-Fall MCHN 1338 – Basic Machine Shop I	3
	Jrs.-Spring MCHN 1320–Precision Tools & Measurement	3
	Jrs.-Spring MCHN 1343 – Machine Shop Mathematics	3
Precision Metal Manufacturing II CC Service ID: 13032600 HS Code: CCM2600	Srs.-Fall DFTG 1313 – Drafting for Specific Occupations	3
	Srs.-Fall MCHN 2303 – Fundamentals of Computer Numerical Controlled Machine Controls	3
	Srs.-Spring MCHN 1326 – Intro. to Computer-Aided Manufacturing (CAM)	3
	Srs.-Spring MCHN 1352 – Intermediate Machining I	3
	Total Hours Earned	24
High School Course	Welding Structural Welding Certificate (*STC)	Credit Hrs. Earned

Intro to Welding CC (Fall only) Service ID: 13032250 HS Code: CCM2250	Jrs.-Fall MCHN 1343–Machine Shop Mathematics (Cohort 2021) WLDG 1327 – Welding Codes and Standards (Cohort 2022)	3
	Jrs.-Fall WLDG 1313–Intro. to Blueprint Reading for Welders (Cohort 2021) Jrs.-Fall WLDG 1317 – Intro. to Layout & Fabrication (Cohort 2022)	3
Welding I CC Service ID: 13032300 HS Code: CCM2300	Jrs.-Spring WLDG 1428 – Intro. to Shielded Metal Arc Welding (SMAW)	4
Welding II/Lab CC Service ID: 13032410 HS Code: CCM2410	Jrs.-Summer I (AM) WLDG 1430 – Intro. to Gas Metal Arc Welding (GMAW)	4
	Jrs.-Summer I (PM) WLDG 1312 – Intro. to Flux Cored Arc Welding (FCAW)	3
Welding II CC Service ID: 13032400 HS Code: CCM2400	Jrs. – Summer III – WLDG 1434 – Intro. to Gas Tungsten Arc Welding (GTAW)	4
Practicum in Manufacturing CC Service ID: 13033000 HS Code: CCM3000	Srs.-Fall WLDG 1457 – Intermediate Shielded Metal Arc Welding (SMAW) (Cohort 2021) Srs.-Fall WLDG 1453 – Intermediate Layout & Fabrication (Cohort 2022)	4
	Srs.-Spring WLDG 1417 – Intro. to Layout & Fabrication	4
Total Hours Earned		29

Other Dual Credit Courses

Professional Communications CC Service ID: 13009900 HS Code: CCC9900	9 th -12 th Speech Course - STC SPCH 1311 - Introduction to Speech Communication Offered both semesters	3
Computer Science I CC Service ID: 03580200 HS Code: CCO0200	Fall - COSC 1301 – Introduction to Computing	3
	Spring - COSC 1436 – Programming Fundamentals I	4
Computer Science II CC Service ID: 03580300 HS Code: CCO0300	Fall – COSC 1320 – C Programming	3
Correctional Services CC Service ID: 13029700 HS Code: CCL9700	Fall – CRIJ 1301 – Criminal Justice	3

*STC Level 1 Certificates Awarded Through Dual Credit:

- Architectural & Civil Engineering Technology Certificate
- Commercial Cooking Certificate
- Precision Manufacturing Technology Certificate
- Structural Welding Certificate

Level 1 certificates are awarded by an Institution of Higher Education (IHE) for completing a program consisting of at least 15 and no more than 42 semester credit hours.

Level 2 certificates are awarded by an Institution of Higher Education (IHE) for completing a program consisting of at least 30 but not more than 51 semester credit hours.

CTE COURSES FOR HIGH SCHOOL CORE CREDIT

ENGLISH

Business English (4th English)



MATH

- Math Application in Ag. (3rd)
- Applied Math for Tech Professionals (3rd)
- *Accounting II (3rd)
- *Financial Mathematics (3rd)
- Manufacturing Engineering Tech II (3rd)
- *Digital Electronics (3rd)
- *Robotics II (3rd)
- *Engineering Math (4th)
- Statistics & Decision Making (4th)
- *Math for Medical Professionals (4th)

SCIENCE

- Principles of Technology (3rd or 4th)
- *Advanced Animal Science
- *Advanced Plant & Soil Science
- *Anatomy & Physiology
- *Medical Microbiology
- *Pathophysiology
- *Forensics Science
- Food Science
- Biotechnology I, II
- Scientific Research and Design I, II III
- *Engineering Design and Problem Solving
- Engineering Science



ELECTIVE/CTE CREDITS – NON-CORE

- *Floral Design (Fine Arts) – 1 credit
- *Professional Communications (Speech credit) – ½ credit
- *General Employability Skills (Taught by CTE or Special Ed.)

*Offered at DISD/Not Available at All High Schools

*Middle School CTE Courses for High School Credit

Health Science

- Principles of Health Science



Law Enforcement

- Principles of Law, Public Safety, Corrections & Security



Science, Technology, Engineering and Mathematics

- Robotics I



*Tentative – Based on student interest, facilities and/or staff availability

Middle School CTE Course

• Investigating Careers – Currently Taught during 8th Grade

The goal of this course is to create a foundation for success in high school, future studies, and careers such as Science, Technology, Engineering, and Mathematics; Business and Industry; Public Service; Arts and Humanities; and Multidisciplinary Studies. The students research labor market information, learn job-seeking skills, and create documents required for employment. They complete a career assessment, and together with their parents, select an endorsement and develop their personal graduation plan for guidance into their high school years. Students can also participate in CTSOs and extended learning experiences. It is vital that students have a clear sense of direction for their career choice. Career planning is a critical step and essential to success.

Clubs and Organizations

Students are encouraged to be active members in clubs and Career & Technical Student Organizations. CTSOs give students an opportunity to acquire and demonstrate skills and abilities related to their chosen careers.

Business Professionals of America (BPA) www.texasbpa.com

Business Professionals 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) www.texasdeca.org

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.



Future Farmers of America (FFA) www.texasffa.org

Future Farmers of America (FFA) is a local, state, and national organization. FFA is a dynamic youth organization within 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.



Clubs and Organizations

Health Occupations Students of America (HOSA) www.texashosa.org

HOSA is a co-curricular organization that provides students with the opportunity to compete at the regional, state, national, and international levels in the health science related field. HOSA empowers students to develop leadership and HOSA 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 science, technology, engineering and mathematics.

Skills USA/Skills USA Texas www.skillsusa.org www.skillsusatx.org

Skills 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.



Clubs and Organizations

Texas Association of Future Educators (TAFE) www.online.org

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 School 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) www.tpsa.org

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, Fire, Forensics Science, Corrections and Security. Its focus is to extend the knowledge of students in the Law and Public Service career cluster.



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 www.everychanceeverytexan.org
Financial Aid Information
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 for 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 <http://board.theccb.state.tx.us/apps/txcrews/>
Education & Workforce Statistics)
Texas Wages and Employment Projection www.texaswages.com

Military Awareness:

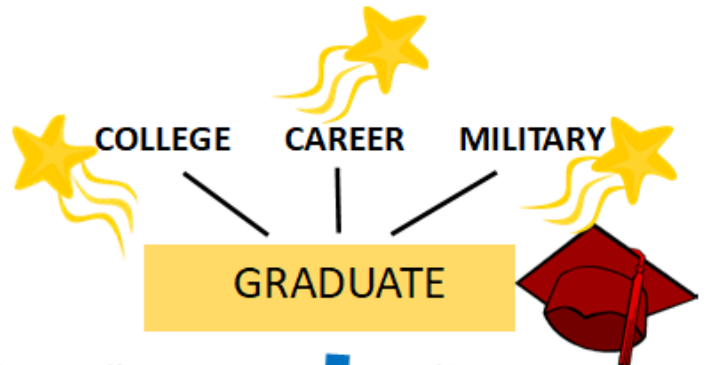
ASVAB www.asvabprogram.com
ARMY Resource/Test Prep Site www.march2success.com
Explore the Branches of the Military <http://www.todaysmilitary.com>

Connecting Industry to Classrooms

www.nepris.com
Educators and students can connect with industry professionals, virtually, bringing real-world relevance and career exposure to students. Live chats with professionals and prerecorded video presentations are available.



DONNA
INDEPENDENT SCHOOL DISTRICT



PATHWAY to **GRADUATION**

Finalize College, Career or Military Plans

Explore Options and Take
ACT/SAT/TSI/ASVAB Exams

Attend Classes & Earn Credits

Confirm High
School Schedule

Select
Endorsement

ARTS & HUMANITIES	
BUSINESS & INDUSTRY	
PUBLIC SERVICE	
MULTIDISCIPLINARY STUDIES	
STEM	

Know Your
Graduation
Requirements

Review Endorsements

Research Careers

Take Career Assessment



Your Career Starts Here



DONNA INDEPENDENT SCHOOL DISTRICT GRADUATION PLAN

Beginning with Grade 9, 2014-2015 and thereafter

	Foundation HSP without Endorsements - 26 Credits	Foundation HSP with one or more Endorsements - 26 Credits	Foundation HSP Distinguished Level of Achievement + 1 Endorsement - 26 Credits
English Language Arts *	Four credits: 34 •English I •English II •English III •Advanced English	Four credits: 34E •English I •English II •English III •Advanced English	Four credits: 34DE •English I •English II •English III •Advanced English
Mathematics *	Three credits: •Algebra I •Geometry •Advanced Mathematics Course	Four credits: •Algebra I •Geometry •Advanced Mathematics Course •Advanced Mathematics Course	Four credits: •Algebra I •Geometry •Algebra II •Advanced Mathematics Course
Science *	Three credits: •Biology •IPC, Chemistry, or Physics •Advanced Science Course	Four credits: •Biology •IPC, Chemistry, or Physics •Advanced Science Course •Advanced Science Course	Four credits: •Biology •IPC, Chemistry, or Physics •Advanced Science Course •Advanced Science Course
Social Studies *	Four credits: •World Geography •World History •US History •Government/Economics	Four credits: •World Geography •World History •US History •Government/Economics	Four credits: •World Geography •World History •US History •Government/Economics
Health	One-half credit or 1 credit of Prin. of Health Science	One-half credit or 1 credit of Prin. of Health Science	One-half credit or 1 credit of Prin. of Health Science
Physical Education	One credit	One credit	One credit
Language Other Than English (in same LOTE)	Two credits: •Spanish I •Spanish II	Two credits: •Spanish I •Spanish II	Two credits: •Spanish I •Spanish II
Fine Arts	One credit: Band, Art I, Chorale, Theatre Arts, Technical Theatre, Mariachi, Dance, Jazz, Music Theory, Applied Music, Classical Guitar	One credit: Band, Art I, Chorale, Theatre Arts, Technical Theatre, Mariachi, Dance, Jazz, Music Theory, Applied Music, Classical Guitar	One credit: Band, Art I, Chorale, Theatre Arts, Technical Theatre, Mariachi, Dance, Jazz, Music Theory, Applied Music, Classical Guitar
Speech	One-half credit •Professional Communications	One-half credit •Professional Communications	One-half credit •Professional Communications
Technology App.	One credit	One credit	One credit
Electives	Six credits	Four credits	Four credits
Total Credits	26	26	26

D.I.S.D. ENDORSEMENTS

Arts & Humanities	Social Studies; Fine Arts; Language other than English (LOTE)
Business & Industry	Agriculture, Food and Natural Resources; Architecture and Construction; Arts, Audio-Video, and Communications; Business Marketing and Finance; Information Technology; Hospitality and Tourism; Journalism; Manufacturing; Transportation, Distribution
Public Service	Education and Training; Law and Public Safety; Health Science; Human Services; JROTC
STEM	Engineering; Advanced Math; Advanced Science; Technology
Multidisciplinary Studies	A student may earn a multidisciplinary studies endorsement by completing foundation and general endorsement requirements and: (A) four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence (B) four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics (C) four credits in advanced placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts

Grade Classification (Credits)

Freshman.....	0-6 1/2
Sophomore.....	7
Junior.....	14
Senior.....	20
Graduate.....	26



* College Board Advanced Placement, College Level Concurrent/Dual Enrollment, International Baccalaureate courses may be substituted for requirements in appropriate areas.



PERFORMANCE ACKNOWLEDGEMENTS



➤ A student may earn a Performance Acknowledgment for outstanding performance:

- in a dual credit course
- in bilingualism and biliteracy
- on an AP test or IB exam
- on the PSAT, the ACT-Plan (ASPIRE), the SAT, or the ACT
- for earning a nationally or internationally recognized business or

Texas High School Diploma – *Steps*

Distinguished Level of Achievement

=

26 credits of the Foundation High School Plan

+

Requirements of one endorsement
(including 4 credits of science and math with Algebra II)

ENDORSEMENTS

STEM

BUSINESS &
INDUSTRY

PUBLIC SERVICE

ARTS &
HUMANITIES

MULTIDISCIPLINARY
STUDIES

+

Satisfactory completion of required STAAR EOC tests



Be sure to visit your school counselor to learn more about your options. Students may earn more than one endorsement.

ENDORSEMENT *Choices*

Students will be able to earn one or more endorsements as part of their graduation requirements. 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.

Students must first select an endorsement in the eighth grade and can change it as their interests change as long as they have ample time to complete the requirements of an endorsement. Students cannot choose to graduate without an endorsement until after their sophomore year and only if approved by their parent or guardian and a school official in writing.

Donna ISD Endorsements and Specializations

Donna ISD provides five endorsements to students with opportunities for specializations. Each program of study allows students to explore, prepare and specialize in an area of interest.

Science, Technology, Engineering and Mathematics (STEM)

- Advanced Mathematics
- Advanced Science
- Engineering
- Combination of no more than two **of the categories listed above**



Business and Industry (one of the following or a combination of areas)

- Agriculture, Food, and Natural Resources
- Architecture and Construction
- Arts, A/V Technology, and Communication
- Business, Marketing, and Finance
- Hospitality and Tourism
- Information Technology
- Journalism
- Manufacturing
- Transportation, Distribution, and Logistics



Public Service

- Education and Training
- Health Science
- Human Services
- Junior Reserve Officer Training (JROTC)
- Law and Public Safety



Arts and Humanities

- Fine Arts
- Social Studies
- LOTE (4 levels in same LOTE or 2 levels each in two LOTE)



Multi-Disciplinary Studies

- Take 4 Advanced courses within 1 endorsement area or among endorsement areas that are not in a coherent sequence. The courses must prepare students to enter the workforce successfully or postsecondary education without remediation.
- Take 4 credits in each of the foundation subject areas to include English IV and Chemistry and/or Physics.
- Take 4 Advanced Placements or International Baccalaureate courses to include 1 credit in each of the 4 foundation subjects.



[Graduation Requirements and Endorsements Link - TEA](#)




STEM Endorsements

The Science, Technology, Engineering and Math (STEM) endorsement is a curriculum path that allows a student to focus deeply on courses directly related to science, technology, engineering and advanced math.

CAREERS

There is a wide range of careers available in the STEM field including: engineer, computer programmer, software developer, and research scientist. Students interested in pursuing an intentional path toward any of these careers should consider a STEM endorsement to guide course selection.

Ways to earn a STEM Endorsement:

1. Mathematics Sequence – 5 credits

- three credits in mathematics by successfully completing Algebra I, Geometry, and Algebra II and two additional math credits in courses for which Algebra II is a prerequisite

2. Science Sequence – 5 credits

- three credits in science by successfully completing Biology, Chemistry, Physics, and two additional science credits in courses beyond chemistry and physics

3. Computer Science Sequence – 4 credits

- four credits in a coherent sequence in computer science

4. Career & Technical Education Sequence-4 credits

- four credits in a coherent sequence in CTE STEM courses, to include at least one advanced CTE course

5. Combination of Academic and CTE – 4 credits

- in addition to successfully completing Algebra II, chemistry, and physics, a coherent sequence of three additional credits from no more than two of disciplines in numbers 1, 2, 3, and/or 4

For more information, please contact your school counselor or visit www.donnaisd.net




Business and Industry

The Business and Industry endorsement is a curriculum path that allows a student to focus deeply on courses directly related to the business field.

CAREERS

There is a wide range of careers available in the business and industry sector, including fields of technology, communication, agriculture, construction, management, architecture, welding, machinist, chef, auto collision technician, and accountant. Students interested in pursuing an intentional path in the business world may want to consider the Business and Industry Endorsement to guide course selection.

Ways to earn a Business and Industry Endorsement:

1. Academic Sequence – 4 credits

- four credits of English electives to include three levels in one of the following areas and one other English elective credit
 - Advanced Journalism Newspaper Production
 - Advanced Journalism Yearbook Production
 - Advanced Broadcast Journalism

2. Career & Technical Education Sequence – 4 credits

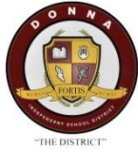
- a coherent sequence of CTE courses with 4 or more credits from a career cluster listed below with at least
 - **three credits**
 - *two credits* from courses in the same career cluster (for example: **BIM I** followed by **BIM II**) and
 - *one credit* must be from at least one advanced CTE course

- **one credit**

The fourth course to be selected from a cluster listed below:

- Agriculture, Food, & Natural Resources
- Architecture & Construction
- Arts, Audio/Video Technology & Communications
- Business, Marketing, & Finance
- Energy
- Hospitality & Tourism
- Information Technology
- Manufacturing
- Transportation, Distribution & Logistics

For more information, please contact your school counselor or visit www.donnaisd.net



Public Services

The Public Services endorsement is a curriculum path that allows a student to focus deeply on courses directly related to the public field, including the education field and government.

CAREERS

There is a wide range of careers available in the public services sector, including serving as a police officer, firefighter, government official, human resources administrator, teacher, cosmetologist, barber, nurse, doctor, or therapist.

Ways to earn a Public Service Endorsement:

1. Academic Sequence – 4 credits

- four credits in JROTC
(Junior Reserve Officer Training Corps)

2. Career & Technical Education Sequence – 4 credits

- a coherent sequence of CTE courses with 4 or more credits from a career cluster listed below with at least
 - **three credits**
 - *two credits* from courses in the same career cluster (for example: **Principles of Education** followed by **Human Growth & Development**) and
 - *one credit* must be from at least one advanced CTE course
 - **one credit**

The fourth CTE credit to be selected from a course in a career cluster listed below:

- Education and Training
- Health Science
- Human Services
- Law & Public Service

For more information, please contact your school counselor or visit www.donnaisd.net



Arts and Humanities

The Arts and Humanities endorsement is a curriculum path that allows students to focus deeply on courses directly related to fine arts, English literature, foreign languages, and social studies.

CAREERS

Students interested in pursuing a career path in the entertainment industry or as an interpreter, an author, for example, may want to consider the Arts and Humanities Endorsement to guide course selection.

Ways to earn an Arts and Humanities Endorsement:

1. Social Studies – 5 credits

- 5 social studies credits

2. Languages Other Than English (LOTE) – 4 credits

- 4 levels of the same language in a LOTE

3. English Electives – 4 credits

- English IV
- AP English IV
- Creative Writing
- Humanities
- Literary Genres
- Business English
- IB Language and Literature

4. Fine Arts – 4 credits

- four credits from one or two of the following:
 - Art
 - Dance
 - Music
 - Theater

For more information, please contact your school counselor or visit www.donnaisd.net



Multidisciplinary Studies

The Multidisciplinary Studies endorsement is a curriculum path that allows a student to study a foundation area or a wide range of curriculum sets.

CAREERS

Due to the broad nature of a multidisciplinary endorsement, students can choose from a wide variety of careers. If students are unsure of their career interests and wish to cross-study multiple subjects, they may want to consider a Multidisciplinary Endorsement to guide their course selection.

Ways to earn a Multidisciplinary Endorsement:

1. Foundation Subject Areas – 4 credits

- four courses in each of the four foundation subject areas to include English IV, Chemistry, and/or Physics

2. Advanced Placement and/or Dual Credit – 4 credits

- four AP or Dual Credit courses to include courses selected from English, mathematics, science, social studies, economics, LOTE, or fine arts.

3. Academic and/or Career and Technical Education

- four credits from advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence.

For more information, please contact your school counselor or visit www.donnaisd.net



Equivalent Proficiency for Prerequisite Courses

Chapter §74.11 High School Graduation Requirements

(j) A student may not be enrolled in a course that has a required prerequisite unless:

- (1) the student has successfully completed the prerequisite course(s);
- (2) the student has demonstrated equivalent knowledge as **determined by the school district**; or
- (3) the student was already enrolled in the course in an out-of-state, an out-of-country, or Texas nonpublic school and transferred to a Texas public school prior to successfully completing the course.

_____ School Year _____ Fall _____ Spring

Campus: _____ Date: _____

Student: _____ Student ID#: _____

This form serves to document this student's successful demonstration of equivalent knowledge as determined by the school district, for the following course(s):

Course(s):	Course ID#:

Equivalent knowledge demonstrated by:

Check all that apply

- _____ Attaining a proficient level on an **Equivalent Proficiency Assessment** submitted by the teacher of record for the course in question (the prerequisite course);
- _____ Attaining a proficient level on a **Course Rubric** submitted by the teacher of record for the course in question;
- _____ Completion of an **Approved Project** demonstrating proficient knowledge of the course in question; or
- _____ Successfully completing all course requirements for a similar course, hence demonstrating equivalent knowledge for the prerequisite course(s) as determined by the school district.

Similar Course Name: _____ Similar Course ID#: _____

Teacher of Record _____ Date _____ Teacher's Signature _____

CTE Counselor _____ Date _____ CTE Counselor's Signature _____

Counselor _____ Date _____ Counselor's Signature _____

Principal or Designee's Name _____ Date _____ Principal or Designee's Signature _____

This form must be kept in the student's PRC and noted on the student's record/file held by the counselor to be referenced during course audits of the student's Academic Achievement Record.

Source: TAC Chapter 74 - Graduation Requirements

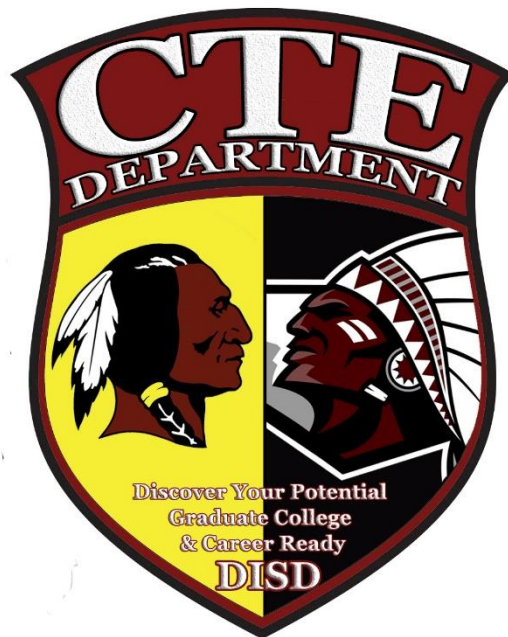
**Texas – Perkins
Nontraditional Occupations for Males**

CODE	COURSE NAME
AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER	
13000600	VETERINARY MEDICAL APPLICATIONS
BUSINESS, MARKETING, AND FINANCE CAREER CLUSTER	
13011300	TOUCH SYSTEM DATA ENTRY
13016300	BANKING AND FINANCIAL SERVICES
13011400	BUSINESS INFORMATION MANAGEMENT I
13011500	BUSINESS INFORMATION MANAGEMENT II
EDUCATION AND TRAINING CAREER CLUSTER	
13014400	INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING
13014500	PRACTICUM IN EDUCATION AND TRAINING
13014510	PRACTICUM IN EDUCATION AND TRAINING II
HEALTH SCIENCE CAREER CLUSTER	
13020300	MEDICAL TERMINOLOGY
13020400	HEALTH SCIENCE THEORY
13020700	MEDICAL MICROBIOLOGY
HUMAN SERVICES CAREER CLUSTER	
13024500	LIFETIME NUTRITION AND WELLNESS
13024800	CHILD GUIDANCE
13025100	INTRODUCTION TO COSMETOLOGY
13025200	COSMETOLOGY I
13025300	COSMETOLOGY II

Texas – Perkins
Nontraditional Occupations for Females

CODE	COURSE NAME
AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER	
13000300	LIVESTOCK PRODUCTION
13000400	SMALL ANIMAL MANAGEMENT
13000500	EQUINE SCIENCE
13000700	ADVANCED ANIMAL SCIENCE
13000900	AGRIBUSINESS MANAGEMENT AND MARKETING
13001200	ADVANCED ENVIRONMENTAL TECHNOLOGY
13001300	FOOD TECHNOLOGY AND SAFETY
13001400	FOOD PROCESSING
13001500	WILDLIFE, FISHERIES AND ECONOLOGY MANAGEMENT
13001600	RANGE ECOLOGY AND MANAGEMENT
13001700	FORESTRY AND WOODLAND ECOSYSTEMS
13001900	LANDSCAPE DESIGN AND TURF GRASS MANAGEMENT
13002000	HORTICULTURE SCIENCE
13002100	ADVANCED PLANT AND SOIL SCIENCE
13002200	AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES
13002300	AGRICULTURAL STRUCTURES DESIGN AND FABRICATIONS
13002400	AGRICULTURAL POWER SYSTEMS
ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER	
13004600	ARCHITECTURAL DESIGN
13004700	ADVANCED ARCHITECTURAL DESIGN
13004800	PRACTICUM IN ARCHITECTURAL DESIGN
13004810	PRACTICUM IN ARCHITECTURAL DESIGN II
13004900	CONSTRUCTION MANAGEMENT
13005000	ADVANCED CONSTRUCTION MANAGEMENT
13005100	CONSTRUCTION TECHNOLOGY
13005200	ADVANCED CONSTRUCTION TECHNOLOGY
13005300	MILL AND CABINETMAKING TECHNOLOGY
13005400	BUILDING MAINTENANCE TECHNOLOGY
13005500	ADVANCED BUILDING MAINTENANCE TECHNOLOGY
13005600	ELECTRICAL TECHNOLOGY
13005700	ADVANCED ELECTRICAL TECHNOLOGY
13005800	HVAC AND REFRIGERATION TECHNOLOGY
13005900	ADVANCED HVAC AND REGRIGERATION TECHNOLOGY
13006000	PIPING AND PLUMBING TECHNOLOGY
13006100	ADVANCED PIPING AND PLUMBING TECHNOLOGY
13006200	PRACTICUM IN CONSTRUCTION MANAGEMENT
13006210	PRACTICUM IN CONSTRUCTION MANAGEMENT II
ARTS, AUDIO VIDEO TECHNOLOGY AND COMMUNICATIONS CAREER CLUSTER	
13008500	AUDIO VIDEO PRODUCTION
13008600	ADVANCED AUDIO VIDEO PRODUCTION
13008700	PRACTICUM IN AUDIO VIDEO PRODUCTION
13008710	PRACTICUM IN AUDIO VIDEO PRODUCTION II
BUSINESS, MARKETING, AND FINANCE CAREER CLUSTER	
13034400	ENTREPRENEURSHIP
13011800	GLOBAL BUSINESS
HOSPITALITY AND TOURISM CAREER CLUSTER	
13022600	CULINARY ARTS
13022700	PRACTICUM IN CULINARY ARTS
13022710	PRACTICUM IN CULINARY ARTS II
13023000	FOOD SCIENCE

INFORMATION TECHNOLOGY CAREER CLUSTER	
13027300	COMPUTER MAINTENANCE
13027400	TELECOMMUNICATIONS & NETWORKING
13027500	COMPUTER TECHNICIAN
13027600	COMPUTER PROGRAMMING
13027700	ADVANCED COMPUTER PROGRAMMING
LAW AND PUBLIC SERVICE CAREER CLUSTER	
13029300	LAW ENFORCEMENT I
13029400	LAW ENFORCEMENT II
13029600	COURT SYSTEMS AND PRACTICES
13029800	SECURITY SERVICES
13029900	FIREFIGHTER I
13030000	FIREFIGHTER II
MANUFACTURING CAREER CLUSTER	
13032200	PRINCIPLES OF MANUFACTURING
13032300	WELDING
13032400	ADVANCED WELDING
13032500	PRECISION METAL MANUFACTURING
13032600	ADVANCED PRECISION METAL MANUFACTURING
13032700	FLEXIBLE MANUFACTURING
13032800	ADVANCED FLEXIBLE MANUFACTURING
13032900	MANUFACTURING ENGINEERING
13033000	PRACTICUM IN MANUFACTURING
13033010	PRACTICUM IN MANUFACTURING II
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) CAREER CLUSTER	
13036500	ENGINEERING DESIGN AND PRESENTATION
13036600	ADVANCED ENGINEERING DESIGN AND PRESENTATION
13036800	ELECTRONICS
13036900	ADVANCED ELECTRONICS
13037000	ROBOTICS I
13036500	ENGINEERING DESIGN AND PROBLEM SOLVING
13037500	PRINCIPLES OF ENGINEERING
13037600	DIGITAL ELECTRONICS
TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CAREER CLUSTER	
13039300	ENERGY, POWER AND TRANSPORTATION SYSTEMS
13039400	AIRCRAFT TECHNOLOGY
13039500	ADVANCED AIRCRAFT TECHNOLOGY
13039600	AUTOMOTIVE TECHNOLOGY
13039700	ADVANCED AUTOMOTIVE TECHNOLOGY
13039800	COLLISION REPAIR AND REFINISHING
13039900	ADVANCED COLLISION REPAIR AND REFINISHING
13040000	SMALL ENGINE TECHNOLOGY
13040100	ADVANCED SMALL ENGINE TECHNOLOGY
13040200	TRANSPORTATION SYSTEMS MANAGEMENT
13040300	LOGISTICS, PLANNING, AND MANAGEMENT SYSTEMS
13040400	PRACTICUM IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS
13040410	PRACTICUM IN TRANSPORTATION, DISTRIBUTION AND LOGISTICS II



**FOR MORE INFORMATION, CONTACT THE CTE DEPARTMENT AT DONNA ISD.
116 N. 10th Street
Donna, TX 78537
(956) 464-1600**