DONNA
INDEPENDENT SCHOOL DISTRICT

DISCOVER YOUR POTENTIAL
GRADUATE COLLEGE AND CAREER READY

CTE Handbook

CTE Handbook

Dr. Angela Dominguez, Superintendent

Mr. David Moreno, CTE Director

DISD Disclaimer

Donna ISD offers Career and Technical education programs in the following areas: Agriculture, Food, and Natural Resources; Architecture and Construction; Arts, A/V Technology, and Communications; Business, Marketing, and Finance; Hospitality and Tourism; Information Technology; Manufacturing; Transportation, Distribution, and Logistics; Education and Training; Health Science; Human Services; Law and Public Service; and Science, Technology, Engineering, and Mathematics. Admission to these programs is open to all students and based on course availability. 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 and provides equal access to Boy Scouts and other designated youth groups 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.

It is the policy of Donna ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

Donna ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Title IX Coordinator, Ms. Adela Troncoso, Assistant Superintendent for Human Resources, 904 Hester Ave., Donna, TX 78537, (956) 464-1600, ATRONCOSO@donnaisd.net, or Dr. Diana Villanueva, Director of Academic Support and 504 Coordinator, at 904 Hester Ave., Donna, TX 78537, (956) 464-1600, DVILLANUEVA@donnaisd.net.

CTE Course Offerings

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

Table of Contents

Donna ISD Statements

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

All Donna ISD students are empowered with academic and life skills to boldly lead and achieve personal success in a global society.

Number One Student Outcome

To graduate all students per their expected graduation date, ready for college, career, or military**.**

District Strategic Plan

CTE Statements and Objectives

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 career opportunities.

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 and Industry, Public Services, and STEM. Career Clusters and Programs of Study will support the completion of Endorsements.

Business and Industry

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

Public Services

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

Science, Technology, Engineering, and Mathematics

- Cybersecurity
- Engineering
- Programming and Software Development

CTE Career Clusters and Programs of Study

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, A/V Technology & Communications

Business, Marketing, & Finance

Education & Training

Health Science
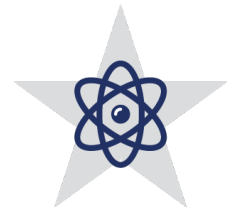
Hospitality & Tourism

Human Services

Information Technology

Law and Public Service

Manufacturing

STEM

Transportation, Distribution, & Logistics

Career Clusters, Programs of Study, and Endorsements

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

Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

AGRICULTURE, FOOD, AND NATURAL RESOURCES

- **ANIMAL SCIENCE**

- **APPLIED AGRICULTURAL ENGINEERING**

- **PLANT SCIENCE**

Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

Animal Science
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Agriculture, Food, and Natural Resources

Level 2
-

Level 3
- Livestock Production

Level 4
- Advanced Animal Science
- Veterinary Medical Applications
- Practicum in Agriculture, Food, and Natural Resources

## Postsecondary Opportunities

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

Bachelor's Degrees
- Animal Sciences
- Agriculture
- Biology
- Zoology/Animal Biology

Master's, Doctoral, and Professional Degrees
- Genetics
- Veterinary Medicine
- Biological and Physical Sciences
- Biological and Biomedical Sciences

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Texas FFA	• Compete in an Agri-Science Fair 4H • Volunteer at a local farm or with a veterinarian • Participate in an FFA supervised agricultural experience
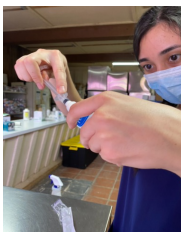
Industry-Based Certifications

- Agricultural Biotechnology
- ^Certified Veterinary Assistant, Level 1
- ^Elanco Fundamentals of Animal Science Certification
- Elanco Veterinary Medical Applications Certification
- Equine Management & Evaluation Certification
- ^Feedyard Technician in Cattle Care and Handling
- Licensed Veterinary Technician
- Production Agriculture - Job Ready
- Small Animal Science and Technology

^Offered at Donna ISD
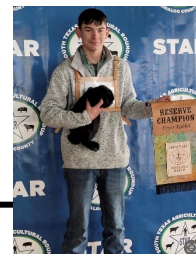
Aligned Occupations

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

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

Animal Science
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Small Animal Management	13000400 (0.5 credit)	None	None
*Equine Science	13000500 (0.5 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Livestock Production/Lab	13000300 (1 credit) 13000310 (2 credits)	None	None

*Not Currently Offered at Donna ISD

See next page for Level 4 courses.

Animal Science
Course Information

Level 4

| COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Advanced Animal Science	13000700 (1 credit)	Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production	None
Veterinary Medical Applications/Lab	13000600 (1 credit) 13000610 (2 credits)	Equine Science, Small Animal Management, or Livestock Production	None
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 13002505 (3 credits) 13002510 (2 credits) 13002515 (3 credits)	None	None
*Project-Based Research	12701500 (1 credit)	None	None
Scientific Research and Design	13037200 (1 credit)	Biology, Chemistry, Integrated Physics, and Chemistry (IPC), or Physics	None

*Not Currently Offered at Donna ISD

FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCE CAREER CLUSTER, PLEASE CONTACT: CTE@tea.texas.gov OR VISIT https://tea.texas.gov/cte

The Public Notification of Nondiscrimination can be found in our Donna ISD's CTE webpage at https://tx50000621.schoolwires.net/Domain/76

Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

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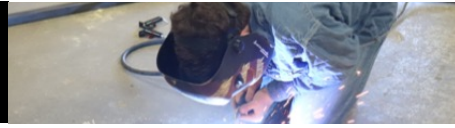
The Applied Agricultural Engineering program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation,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

Secondary Courses for High School Credit

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
- Practicum in Agriculture, Food, and Natural Resources
- Scientific Research and Design

Postsecondary Opportunities

Associates Degrees
- Heavy Equipment Maintenance Technology/Technician
- Agricultural Mechanization, General
- Small Engine Mechanics and Repair Technology/Technician
- Welding Technology/Welder

Bachelor's Degrees
- Agricultural Engineering
- Agricultural Mechanization, General

Master's, Doctoral, and Professional Degrees
- Agricultural Engineering
- Agricultural Mechanization, General

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Tour a farm products or machinery plant • Participate in Texas FFA	• Earn a welding certification • Intern at a farm products or machinery plant • Participate in an FFA supervised agricultural experience

Industry-Based Certifications

- Agriculture Mechanics
- API 1104 Welding Pipelines and Related Facilities AWS Certified Welder
- AWS Certified Welder
- ^AWS D1.1 Structural Steel
- ^AWS D9.1 Sheet Metal Welding
- AWS SENSE Level 1: Entry Welder
- Feedyard Technician in Machinery Operation, Repair and Maintenance
- Industrial Technology Maintenance (ITM) - Maintenance Welding
- ^Machining Measurement, Material, and Safety Level I
- NCCER Welding Level I
- General Welding - Job Ready

- -

- ^OSHA General Industry – 30 Hours*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Outdoor Power Equipment and Other Small Engine Mechanics	$32,406	366	16%
Welders	$41,350	6171	9%
Farm Equipment Mechanics and Service Technicians	$39,915	304	17%
Mobile Heavy Equipment Mechanics	$47,299	1627	16%
Agricultural Engineers	$64,792	9	13%

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

TEA Texas Education Agency

Applied Agricultural Engineering
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Agricultural Mechanics and Metal Technologies/Lab	13002200 (1 credit) 13002210 (2 credits)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Agricultural Structures Design and Fabrications/Lab	13002300 (1 credit) 13002310 (2 credits)	None	None
*Agricultural Power Systems/Lab	13002400 (2 credits) 13002410 (3 credits)	None	None
*Geographic Information Systems for Agriculture	N1300272 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Agricultural Equipment Design and Fabrication/Lab	13002350 (1 credit) 13002360 (2 credits)	None	None
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 13002505 (3 credits) 13002510 (2 credits) 13002515 (3 credits)	None	None
*Project-Based Research	12701500 (1 credit)	None	None
Scientific Research and Design	13037200 (1 credit)	Biology, Chemistry, Integrated Physics, and Chemistry (IPC),or Physics	

*Not Currently Offered at Donna ISD

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Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life - food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

Plant Science
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Agriculture, Food, and Natural Resources

Level 2
-

Level 3
- Floral Design/Lab

Level 4
- Practicum in Agriculture, Food, and Natural Resources
- Advanced Plant and Soil Science
- Advanced Floral Design
- Scientific Research and Design

Postsecondary Opportunities

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

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

Master's, Doctoral, and Professional Degrees
- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- Agricultural Business and Management, General
- Farm/Farm and Ranch Management

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Texas FFA	• Work at a florist or landscaper business • Participate in an FFA supervised agricultural experience

Industry-Based Certifications

- Agricultural Biotechnology
- BASF Plant Science Certification
- Commercial/Non-Commercial Pesticide Applicator
- Commercial/Noncommercial Pesticide Applicator "Vegetation Management" License
- Horticulture - Landscaping - Job Ready
- Landscape Irrigator
- Principles of Floral Design Certification
- Production Agriculture - Job Ready
- Texas Certified Landscape Associate (TCLA)
- Texas Certified Nursery Professional
- ^Texas State Florist's Association Knowledge Based Floral Certification
- Texas State Florist's Association Level I Floral Certification
- Texas State Florist's Association Level II Floral Certification

^Offered at Donna ISD

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Soil and Plant Scientists	$54,662	116	21%
Tree Trimmers and Pruners	$32,240	589	14%
Pesticide Handlers, Sprayers, and Applicators	$36.733	196	22%
Landscaping Supervisors	$44,408	807	19%
Biological Technicians	$42,931	452	17%

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

Plant Science
Course information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Landscape Design and Management	13001900 (.5 credit)	None	None
*Turf Grass Management	13001950 (.5 credit)	None	None
*Greenhouse Operation and Production/Lab	13002050 (1 credit) 13002060 (2 credits)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Floral Design/Lab	13001800 (1 credit) 13001810 (2 credits)	None	None
*Horticultural Science/Lab	13002000 (1 credit) 13002010 (2 credits)	None	None
*Viticulture	N1300265 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 13002505 (3 credits) 13002510 (2 credits) 13002515 (3 credits)	None	None
Advanced Plant and Soil Science	13002100 (1 credit)	None	None
Advanced Floral Design	N1300270 (1 credit)	Floral Design	None
*Project-Based Research	12701500 (1 credit)	None	None
Scientific Research and Design	13037200 (1 credit)	Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics	None

*Not currently offered at Donna ISD

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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

ARCHITECTURE & CONSTRUCTION

- **ARCHITECTURAL DESIGN**

- **CARPENTRY**

Architecture and Construction Career Cluster

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

Architectural Design
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Architecture

Level 2
- Architectural Design I

Level 3
- Architectural Design II

Level 4
- Practicum in Architectural Design

Postsecondary Opportunities

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

Bachelor's Degrees
- Architecture
- Interior Design
- Civil Engineering, General
- Geographic Information Science and Cartography

Master's, Doctoral, and Professional Degrees
- Architecture
- Interior Architecture
- Civil Engineering, General
- Geographic Information Science and Cartography

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Shadow an architect, interior designer or civil engineer • Participate in SkillsUSA	• Intern at an architectural firm

Industry-Based Certifications

- Autodesk Associate (Certified User) 3ds MAX
- Autodesk Associate (Certified User & Prof.) AutoCAD
- Autodesk Associate (Certified User & Prof.) Fusion 360
- Autodesk Associate (Certified User) Revit Architecture
- Autodesk Associate (Certified User) Revit for Electrical
- Autodesk Associate (Certified User) Revit-Structural Design
- Autodesk Certified Professional in AutoCAD for Design & Drafting
- Autodesk Certified Prof. - Civil 3D for Infrastructure Design
- ^Autodesk Certified Prof. in Revit for Architectural Design
- Autodesk Certified Prof. in Revit for Electrical Design
- Autodesk Certified Prof. in Revit for Structural Design
- Certified SOLIDWORKS Associate (CSWA) – Electrical
- Certified SOLIDWORKS Associate (CSWA) & Professional (CSWP) – Academic
- Certified SOLIDWORKS Prof. (CSWP) – Drawing Tools
- Certified SOLIDWORKS Prof. (CSWP) - Model Based Definition
- Certified SOLIDWORKS Associate (CSWA) & Professional (CSWP) – Simulation
- Certified SOLIDWORKS Associate (CSWA) - Sustainability
- LEED Green Associate
- ^Certified SOLIDWORKS Associate*
- Mastercam Associate Certification*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

Architectural Design
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Architecture	13004210 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Architectural Design I	13004600 (1 credit)	Algebra I and English I	None
*Interior Design I	13004300 (1 credit)	Algebra I and English I	None
*Computer Aided Drafting for Architecture	N1300429 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Architectural Design II	13004700 (2 credits)	Architectural Design I or Advanced Interior Design and Geometry	None
*Interior Design II	13004400 (2 credits)	English ll, Geometry, and Interior Design I	None
*Civil Engineering and Architecture (PLTW)	N1303747 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Architectural Design	13004800 (2 credits) 13004805 (3 credits) 13004810 (2 credits) 13004815 (3 credits)	Architectural Design II	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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Architecture and Construction Career Cluster

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

Carpentry
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
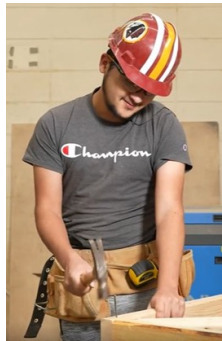- Principles of Construction
- Principles of Architecture

Level 2
- Construction Technology I

Level 3
- Construction Technology II

Level 4
- Practicum in Construction Technology

Postsecondary Opportunities

Associates Degrees
- Carpentry/Carpenter
- Industrial Mechanics and Maintenance Technology

Bachelor's Degrees
- Construction Science

Master's, Doctoral, and Professional Degrees
- Construction Management

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Shadow a carpenter or millwright • Participate in SkillsUSA	• Obtain an NCCER certification in Millwright Level 1 or Carpentry Level 1

Industry-Based Certifications

- HBI Pre-Apprenticeship Certificate Training (PACT), Basic Carpentry
- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- HBI Pre-Apprenticeship Certificate Training (PACT), Green Core
- NCCER Carpentry Level I
- NCCER Carpentry Level II
- NCCER Commercial Carpenter
- NCCER Construction Technology Certification Level I
- NCCER Core
- NCCER Painting: Commercial and Residential Level I

- **^**OSHA 30 Hour Construction*
- **^**OSHA 30 Hour General*

^ Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Carpenters	$35,922	5,031	26%
Cost Estimators	$63,939	2,239	21%

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

Carpentry
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Construction	13004220 (1 credit)	None	None
Principles of Architecture	13004210 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Construction Technology I	13005100 (2 credits)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Construction Technology II	13005200 (2 credits)	Construction Technology I	None
*Mill & Cabinetmaking Technology	13005300 (2 credits)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Construction Technology	13005250 (2 credits) 13005255 (3 credits) 13005260 (2 credits) 13005265 (3 credits)	Construction Technology ll, Building Maintenance Technology II, Electrical Technology II, Heating, Ventilation Air Conditioning (HVAC) and Refrigeration Technology II, Plumbing Technology I, or Mill and Cabinetmaking Technology	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at DISD

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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

ARTS, AUDIO VIDEO TECHNOLOGY & COMMUNICATIONS

- **GRAPHIC DESIGN & MULTIMEDIA ARTS**

- **DIGITAL COMMUNICATIONS**

Arts, Audio/Video Technology, and Communications Career Cluster

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

Graphic Design & Multimedia Arts
Statewide Program of Study

The Graphic Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into designing clothing and accessories, and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials.

Secondary Courses for High School Credit

Level 1
- Principles of Arts, A/V Technology, and Communications

Level 2
- Graphic Design and Illustration I/Lab
- Commercial Photography I/Lab

Level 3
- Graphic Design and Illustration II/Lab
- Commercial Photography II/Lab

Level 4
- Practicum in Graphic Design and Illustration
- Practicum in Commercial Photography

Postsecondary Opportunities

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

Bachelor's Degrees
- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Game and Interactive Media Design

Master's, Doctoral, and Professional Degrees
- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Intermedia/Multimedia

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Join a website development or coding club • Participate in SkillsUSA or TSA	• Intern with a multimedia or animation studio • Obtain a certificate or certification in graphic design

Industry-Based Certifications

- **^**Adobe Certified Professional in Digital Video Using Adobe Premiere Pro
- Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator
- Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign
- Adobe Certified Professional in Visual Design
- **^**Adobe Certified Professional in Visual Design Using Adobe Photoshop
- Adobe Certified Professional In Visual Effects and Motion Graphics Using Adobe After Effects
- Audio-Visual Communications - Job Ready
- Autodesk Associate (Certified User) 3ds MAX
- Certified Professional Photographer
- Graphic Production Technology - Job Ready
- C++ Certified Associate Programmer
- Certified Used: Programmer
- CodeHS Phython Level 1 Certification
- Oracle Certified Associate Java SE 9 Programmer
- Certified Entry-Level Python Programmer (PCEP)

- Adobe Certified Professional Animate*

^Offered at Donna ISD   *IBC Sunsetting 8/31/24

Aligned Occupations

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

Successful completion of the Graphic Design & Multimedia Arts program of study will fulfill requirements of the Business and Industry endorsement. Revised – August 2022

Graphic Design & Multimedia Arts
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Arts, A/V Technology, & Communications	13008200 (1 credit)	None	None
*Video Game Design	13009970 (1 credit)	None	None
*Digital Media	13027800 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Graphic Design and Illustration I /Lab	13008800 (1 credit) 13008810 (2 credits)	None	None
*Animation I/Lab	13008300 (1 credit) 13008310 (2 credits)	None	None
*Video Game Programming	N1300994 (1 credit)	None	None
Commercial Photography I/Lab	13009100 (1 credit) 13009110 (2 credits)	None	None
*Fashion Design I/Lab	13009300 (1 credit) 13009310 (2 credits)	None	None
*Digital Design and Media Production	03580400 (1 credit)	None	None
*Game Programing and Design	03580380 (1 credit)	Algebra I	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Graphic Design and Illustration II/Lab	13008900 (1 credit) 13008910 (2 credits)	Graphic Design and Illustration l	None
*Animation II/Lab	13008400 (1 credit) 13008410 (2 credits)	Animation I	None
*Advanced Video Game Programming	N1300995 (1 credit)	None	None
*Fashion Design II/Lab	13009400 (1 credit) 13009410 (2 credits)	Fashion Design I	None
*Digital Arts and Animation	03580500 (1 credit)	None	None
*3-D Modeling and Animation	03580510 (1 credit)	None	None
Commercial Photography II/Lab	13009200 (1 credit) 13009210 (2 credits)	None	None
*Web Game Development	03580830 (1 credit)	None	None

See next page for Level 4 courses

Graphic Design & Multimedia Arts
Course Information

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	COREQUISITES (CREQ)
*Practicum in Graphic Design and Illustration	13009000 (2 credits) 13009005 (3 credits) 13009010 (2 credits) 13009015 (3 credits)	Graphic Design and Illustration II and Graphic Design and Illustration II Lab	None
*Practicum in Animation	13008450 (2 credits) 13008455 (3 credits) 13008460 (2 credits) 13008465 (3 credits)	Animation II and Animation II Lab	None
Practicum in Commercial Photography	13009250 (2 credits) 13009255 (3 credits) 13009260 (2 credits) 13009265 (3 credits)	Commercial Photography l and Commercial Photography l Lab	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None

*Not Currently Offered at DISD

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Arts, Audio/Video Technology, and Communications Career Cluster

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Digital Communications
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Arts, Audio/Video Technology, and Communications
- Professional Communications

Level 2
- Audio/Video Production I/Lab

Level 3
- Audio/Video Production II/Lab

Level 4
- Practicum of Audio/Video Production

Postsecondary Opportunities

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

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

Master's, Doctoral, and Professional Degrees
- Communications Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television
- Agricultural Communication/Journalism

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Shadow a production team • Participate in SkillsUSA or TSA	• Intern at a local television station or video production company • Work with a local company on a project

Industry-Based Certifications

- Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign
- Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign
- Adobe Certified Professional in Visual Design
- ^Adobe Certified Professional in Visual Design Using Adobe Photoshop
- Adobe Certified Professional in Visual Design Using Adobe Premiere Pro
- Audio-Visual Communications - Job Ready
- Broadcasting and Journalism
- Digital Video Production Foundations

^Offered at Donna ISD

Aligned Occupations

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

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

Digital Communications
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Arts, A/V Technology, and Communications	13008200 (1 credit)	None	None
Professional Communication	13009900 (.5 credit)	None	None
*Web Communications	03580810 (.5 credit)	None	None
*Digital Communications in the 21st Century	03580610 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Audio/Video Production I/Lab	13008500 (1 credit) 13008510 (2 credits)	None	None
*Digital Audio Technology I	13009950 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES (CREQ)
Audio/Video Production II/Lab	13008600 (1 credit) 13008610 (2 credits)	Audio/Video Production I	None
*Digital Audio Technology II	13009960 (1 credit)	Digital Audio Technology I	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Audio/Video Production	13008700 (2 credits) 13008705 (3 credits) 13008710 (2 credits) 13008715 (3 credits)	Audio/Video Production II/Lab	None
*Practicum in Digital Audio Technology	N1300996 (2 credits)	Digital Audio Technology I & Digital Audio Technology II	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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Business & Industry Endorsement

CAREER CLUSTER

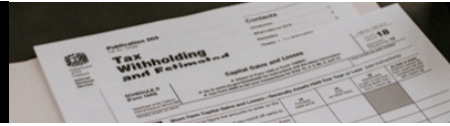**PROGRAMS OF STUDY**

BUSINESS, MARKETING, & FINANCE

- ACCOUNTING & FINANCIAL SERVICES

- BUSINESS MANAGEMENT

- MARKETING & SALES

Business, Marketing, and Finance Career Cluster

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

Accounting and Financial Services
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Business, Marketing, and Finance
- Business Information Management I/Lab

Level 2
- Accounting I
- Financial Mathematics

Level 3
- Accounting II

Level 4
- Practicum in Business Management

Postsecondary Opportunities

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

Bachelor's Degrees
- Accounting
- Financial, General
- Financial Planning and Services
- Certified Income Specialist

Master's, Doctoral, and Professional Degrees
- Financial Accounting
- Business Administration
- Financial Planning

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Business Professionals of America, Future Business Leaders of America, or DECA	• Intern with a local accounting firm • Earn Microsoft Office certifications

Industry-Based Certifications

- Accounting - Basic
- Accounting Foundations
- Certified Insurance Service Representative
- ^Intuit QuickBooks Certified User
- MB-920: Microsoft Dynamics 365 Fundamentals Finance and Operations Apps
- ^Microsoft Office Specialist: Microsoft Access Expert (Access and Access 2019), Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)
- Volunteer Income Tax Assistance/Tax Counseling Certification: Advanced
- Volunteer Income Tax Assistance/Tax Counseling Certification: Basic
- Volunteer Income Tax Assistance/Tax Counseling Certification: Volunteer for Elderly

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- ^Microsoft Office Specialist-Excel*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

Accounting and Financial Services
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	None
*Money Matters	13016200 (1 credit)	None	None
Business Information Management I/Lab	13011400 (1 credit) 13011410 (2 credits)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Accounting I	13016600 (1 credit)	None	None
*Banking and Financial Services	13016300 (.5 credit)	None	None
Financial Mathematics	13018000 (1 credit)	Algebra I	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Accounting II	13016700 (1 credit)	Accounting I	None
*Financial Analysis	13016800 (1 credit)	Accounting I	None
*Insurance Operations	13016500 (1 credit)	None	None

Level 4

| COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Securities and Investments	13016400 (1 credit)	None	None
Practicum in Business Management	13012200 (2 credits) 13012205 (3 credits) 13012210 (2 credits) 13012215 (3 credits)	None	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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Business, Marketing, and Finance Career Cluster

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

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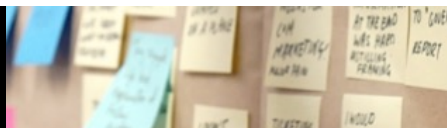
The Business Management program of study teaches CTE learners how to plan, direct, and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use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

Secondary Courses for High School Credit

Level 1
- Principles of Business, Marketing, and Finance
- Business Information Management I/Lab

Level 2
- Business Information Management II/Lab

Level 3
- Business Management

Level 4
- Practicum in Business Management

Postsecondary Opportunities

Associates Degrees
- Business Administration
- Business/Commerce
- Public Administration
- Business Management

Bachelor's Degrees
- Business Administration
- Business/Commerce
- Public Administration
- Management Science

Master's, Doctoral, and Professional Degrees
- Business Administration
- Business Management
- Public Administration
- Management Science

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Business Professional of America, Future Business Leaders of America, or DECA	• Intern with a local business or chamber of commerce

Industry-Based Certifications

- Administrative Assisting
- Certified Associate in Project Management (CAPM)
- Entrepreneurship and Small Business
- General Management
- MB-920: Microsoft Dynamics 365 Fundamentals Finance and Operations Apps
- Microsoft Office Specialist 2016 Master
- Microsoft Office Specialist: Microsoft Access Expert (Access 2019)
- ^Microsoft Office Specialist: Microsoft Excel Expert (Excel 2019)
- ^Microsoft Office Specialist: Microsoft Word Expert (Word 2019)
- Project Management Institute (PMI) Project Management Ready

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- ^Microsoft Office Specialist-Excel*
- ^Microsoft Office Specialist-Word*

^ Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

TEA
Texas Education Agency

Business Management
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	None
Business Information Management I/Lab	13011400 (1 credit) 13011410 (2 credits)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Business Law	13011700 (1 credit)	None	None
*Virtual Business	13012000 (.5 credit)	None	None
Business Information Management II/Lab	13011500 (1 credit) 13011510 (2 credits)	Business Information Management I	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Business Management	13012100 (1 credit)	None	None
*Global Business	13011800 (.5 credit)	None	None
*Human Resources Management	13011900 (.5 credit)	None	None

Level 4

| COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Statistics and Business Decision Making	13016900 (1 credit)	Algebra II	None
Practicum in Business Management	13012200 (2 credits) 13012205 (3 credits) 13012210 (2 credits) 13012215 (3 credits)	None	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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Business, Marketing, and Finance Career Cluster

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

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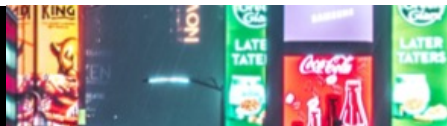
The Marketing and Sales program of study teaches CTE learners how to collect information to determine potential sales of a product or service and/or create a marketing campaign to market or distribute goods and services. Through this program of study, students will learn the skills necessary to understand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

Secondary Courses for High School Credit

Level 1
- Principles of Business, Marketing, and Finance

Level 2
-

Level 3
- Fundamentals of Real Estate

Level 4
- Advanced Marketing

Postsecondary Opportunities

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

Bachelor's Degrees
- Marketing/ Marketing Management, General
- Business Administration
- Applied Economics
- Marketing Research

Master's, Doctoral, and Professional Degrees
- Marketing
- Business Administration
- Applied Economics
- Advertising

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Business Professionals of America, Future Business Leaders of America, or DECA	• Intern with a local marketing firm • Shadow a real estate agent • Operate a school store on campus

Industry-Based Certifications

- Business of Retail: Certified Specialist
- Certified Insurance Service Representative
- Customer Service and Sales: Certified Specialist
- Entrepreneurship and Small Business
- Facebook Digital Marketing Associate Certification
- ^Real Estate Sales Agent License
- Retail Merchandising - Job Ready
- Student Social Media Marketing Certification

- ^Google Analytics Individual Qualification*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

TEA Texas Education Agency

Marketing & Sales
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Fashion Marketing	13034300 (.5 credit)	None	None
*Sports and Entertainment Marketing	13034600 (.5 credit)	None	None
*Virtual Business	13012000 (.5 credit)	None	None
*Marketing	N1303424 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Social Media Marketing	13034650 (.5 credit)	None	None
*Advertising	13034200 (.5 credit)	None	None
*Retail Management	N1303420 (1 credit)	None	None
*Sports and Entertainment Marketing II	N1303422 (.5 credit)	Sports and Entertainment Marketing	None
*Statistics and Business Decision Making	13016900 (1 credit)	Algebra II	None
Fundamentals of Real Estate	N1301120 (2 credits)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Advanced Marketing	13034700 (2 credits)	One credit from the courses in the Marketing Career Cluster	None
*Practicum in Marketing	13034800 (2 credits) 13034805 (3 credits) 13034810 (2 credits) 13034815 (3 credits)	None	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

HOSPITALITY & TOURISM

- **CULINARY ARTS**

Hospitality and Tourism Career Cluster

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

Culinary Arts
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
•

Level 2
• Culinary Arts

Level 3
• Advanced Culinary Arts

Level 4
• Practicum in Culinary Arts

Postsecondary Opportunities

Associates Degrees
• Hotel and Restaurant Management
• Restaurant Culinary and Catering Management
• Hospitality Administration/ Management, General
• Culinary Arts/ Chef Training

Bachelor's Degrees
• Hotel and Restaurant Management
• Food Service Systems Administration/ Management
• Hospitality Administration/ Management, General
• Culinary Science and Food Service Management

Master's, Doctoral, and Professional Degrees
• Hotel and Restaurant Management
• Food Service Systems Administration/ Management
• Hospitality Administration/ Management, General
• Business Administration Management, General

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Family, Career, and Community Leaders of America, SkillsUSA, American Culinary Federation, or the Texas Restaurant Association	• Plan a catering event or work for a catering company • Participate in a cooking course • Work in a restaurant

Industry-Based Certifications

• ^Certified Fundamentals Cook
• Certified Fundamentals Pastry Cook
• Certified Hospitality & Tourism Management Professional
• ^Commercial Foods
• Culinary Meat Selection & Cookery Certification
• Food Protection Manager Certification
• Food Safety & Science Certification
• ManageFirst Professional
• Pre-Professional Certification in Culinary Arts
• Pre-Professional Certification in Food Science Fundamentals
• ^ServSafe Manager

^Offered at Donna ISD

Aligned Occupations

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

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

Culinary Arts
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Introduction to Culinary Arts	13022550 (1 credit)	None	None
*Principles of Hospitality and Tourism	13022200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Culinary Arts	N1302268 (1 credit)	None	None
*Foundations of Restaurant Management	13022650 (2 credits)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Advanced Culinary Arts	13022650 (2 credits)	Culinary Arts	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Food Science	13023000 (1 credit)	3 units of Science, including Chemistry and Biology	None
Practicum in Culinary Arts	13022700 (2 credits) 13022705 (3 credits) 13022710 (2 credits) 13022715 (3 credits)	Culinary Arts	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

FOR ADDITIONAL INFORMATION ON THE HOSPITALITY AND TOURISM CAREER CLUSTER, PLEASE CONTACT: CTE@tea.texas.gov OR VISIT https://tea.texas.gov/cte

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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

INFORMATION TECHNOLOGY

- **INFORMATION TECHNOLOGY SUPPORT AND SERVICES**

- **NETWORKING SYSTEMS**

Information Technology Career Cluster

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

Information Technology Support and Services
Statewide Program of Study

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.

Secondary Courses for High School Credit

Level 1
- Principles of Information Technology

Level 2
-

Level 3
- Computer Technician Practicum

Level 4
- Computer Technician Practicum (2nd Time)

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Join TSA • Job shadow a database administrator or computer hardware engineer	• Earn an IT certification

Industry-Based Certifications

- Business Information Processing
- Cloud Essentials+
- CompTIA A+ Certification
- CompTIA IT Fundamentals+
- Computer Repair Technology - Job Ready
- Google IT Support Professional Certificate
- Microsoft Security, Compliance, and Identity Fundamentals
- Microsoft 365 Fundamentals

- -

- ESRI ArcGIS Desktop Entry*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Postsecondary Opportunities

Associates Degrees
- Computer and Information Sciences, General
- Computer and Information Systems Security/Information Assurance
- Information Technology
- Computer Systems Networking and Telecommunications

Bachelor's Degrees
- Computer and Information Sciences, General
- Computer and Information Systems Security/Information Assurance
- Computer Engineering, General
- Computer Systems Networking and Telecommunications

Master's, Doctoral, and Professional Degrees
- Computer and Information Sciences, General
- Computer Systems Analysis/Analyst
- Computer Engineering, General
- Information Technology

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Database Administrator	$83,075	1,063	19%
Computer Hardware Engineer	$111,738	343	24%
Computer System Analyst and Support	$87,568	5,937	29%

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

TEA
Texas Education Agency

Information Technology Support and Services Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Information Technology	13027200 (1 credit)	None	None
*Geographic Information Systems	N1302805 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Computer Maintenance/Lab	13027300 (1 credit) 13027310 (2 credits)	Principles of Information Technology	None
*Raster Based GIS	N1302806 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Computer Technician Practicum	13027500 (2 credits) 13027505 (3 credits)	None	None
*Spatial Technology and Remote Sensing	N1302807 (1 credit)	None	None
*IT Troubleshooting	N1302815 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Computer Technician Practicum (2nd Time)	13027510 (2 credits) 13027515 (3 credits)	Computer Technician Practicum	None
*Practicum in Information Technology	13028000 (2 credits) 13028005 (3 credits) 13028010 (2 credits) 13028015 (3 credits)	A minimum of two high school Information Technology (IT) courses	None
Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Independent Study in Technology Applications	03580900 (1 credit)	None	None
*Independent Study in Evolving/Emerging Technologies	03581500 (1 credit)	None	None
*Project-Based Research	12701500 (1 credit)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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Information Technology Career Cluster

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

Networking Systems
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Information Technology

Level 2
-

Level 3
- Networking/Lab

Level 4
- Practicum in Information Technology

Postsecondary Opportunities

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

Bachelor's Degrees
- Computer and Information Sciences, General
- Computer Systems Networking And Telecommunications
- Computer and Information Systems Security/ Information Assurance
- Computer Engineering, General

Master's, Doctoral, and Professional Degrees
- Computer and Information Sciences, General
- Information Technology
- Computer and Information Systems Security/ Information Assurance
- Computer Engineering, General

Work-Based Learning and Expanded Learning Opportunities

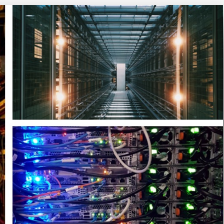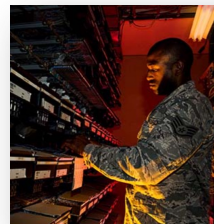| Exploration Activities	Work-Based Learning Activities
• Join TSA • Job shadow a computer network architect or support specialist	• Earn an IT certification

Industry-Based Certifications

- Cisco 100-490 RSTECH Supporting Cisco Routing and Switching Network Devices
- Cisco CCNA (200-301) Implementing and Administering Cisco Solutions
- CompTIA A+ Certification
- CompTIA Network+
- CompTIA Server+
- ^Computer Networking Fundamentals - Job Ready
- Google Cloud Certified Professional - Cloud Architect
- Information Technology Specialist: Networking
- Microsoft 365 Fundamentals
- Microsoft Azure Data Fundamentals
- Microsoft Security Compliance and Identity Fundamentals

- Associate of (ISC)*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

Networking Systems
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Computer Science I	03580200 (1 credit)	None	Algebra I
Principles of Information Technology	13027200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Internetworking Technologies I	N1302803 (1 credit)	None	None
*Computer Maintenance/Lab	13027300 (1 credit) 13027310 (2 credits)	Principles of Information Technology	None
*AP Computer Science Principles	A3580300 (1 credit)	Algebra I	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Internetworking Technologies II	N1302804 (1 credit)	Internetworking Technologies I	None
*Advanced Cloud Computing	N1302813 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Practicum in Information Technology	13028000 (2 credits) 13028005 (3 credits) 13028010 (2 credits) 13028015 (3 credits)	Minimum of two high school Information Technology (IT) courses	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Independent Study in Technology Applications	03580900 (1 credit)	None	None
*Independent Study in Evolving/Emerging Technologies	03581500 (1 credit)	None	None
*Project Based Research	12701500 (1 credit)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

MANUFACTURING

- **ADVANCED MANUFACTURING & MACHINERY MECHANICS**

- **WELDING**

Manufacturing Career Cluster

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

Advanced Manufacturing and Machinery Mechanics
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
• Principles of Applied Engineering

Level 2
• Robotics I
• Manufacturing Engineering Technology I

Level 3
• Robotics II

Level 4
•

Postsecondary Opportunities

Associates Degrees
• Electromechanical Engineering/Technology
• Certified Quality Technician
• Industrial Mechanics and Maintenance Technology

Bachelor's Degrees
• Electrical Engineering
• Industrial Engineering
• Mechanical Engineering

Master's, Doctoral, and Professional Degrees
• Electrical Engineering
• Industrial Engineering
• Mechanical Engineering

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in SkillsUSA and local STEM events	• Work at a local business or industry apprenticeship • Join the American Welding Society

Industry-Based Certifications

• C-101 Certified Industry 4.0 Associate - Basic Operations
• C-103 Certified Industry 4.0 Associate - Robot System Operations
• C-200 Certified Industry 4.0 Automation System Specialist I - 216 Robotic System Integration 1
• C-200 Certified Industry 4.0 Automation Systems Specialist I - 208 Programmable Controller Troubleshooting 1
• C-200 Certified Industry 4.0 Automation Systems Specialist I - 215 Robotic Operations 1
• Certified Manufacturing Associate
• Certified SOLIDWORKS Professional (CSWP) – CAM
• Certified SOLIDWORKS Professional (CSWP) – Additive Manuf.
• CNC Lathe Operations
• CNC Lathe Set Up and Operations
• FANUC Robot Operator 1
• FESTO Certified Industry 4.0 Associate Fundamentals
• Industrial Technology Maintenance (ITM) - Process Control Sys.
• Machining CNC Mill Operations Level I
• Machining CNC Mill Programming Setup and Operations Level I
• Machining CNC Milling Skills Level II
• Machining CNC Milling Skills Level II

- - - - - - - - - - - - - - -

• Industrial Technology Maintenance (ITM) - Electronic Control Systems*
• ISCET Certified Electronics Technicians*
• Mastercam Associate Certification Mill Design and Toolpaths*
• Mastercam Certified Professional Mill Level 1*
• Mastercam Professional Level Certification*
• ^OSHA 30 Hour General

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

TEA Texas Education Agency

Advanced Manufacturing and Machinery Mechanics Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Principles of Manufacturing	13032200 (1 credit)	None	None
Principles of Applied Engineering	13036200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	None
Robotics I	13037000 (1 credit)	None	None
*Manufacturing Engineering Technology I	13032900 (1 credit)	None	None
*Programmable Logic Controller I	N1303689 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Engineering Design and Presentation I	13036500 (1 credit)	Algebra I	None
*Manufacturing Engineering Technology II	13032950 (1 credit)	Manufacturing Engineering Technology I	None
Robotics II	13037050 (1 credit)	Robotics I	None
*Occupational Safety and Environmental Technology II	N1303681 (1 credit)	OSET I	None
*Programmable Logic Controller II	N1303690 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Manufacturing	13033000 (2 credits) 13033005 (3 credits) 13033010 (2 credits) 13033015 (3 credits)	None	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

FOR ADDITIONAL INFORMATION ON THE MANUFACTURING CAREER CLUSTER,
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Manufacturing Career Cluster

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

Welding
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Introduction to Welding CC

Level 2
- Welding I CC

Level 3
- Welding II/Lab CC

Level 4
- Practicum in Manufacturing CC

Postsecondary Opportunities

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

Bachelor's Degrees
- Welding Engineering Technology/Technician
- Biomedical Technology/Technician
- Operations Management and Supervision
- Environmental Health

Master's, Doctoral, and Professional Degrees
- Welding Engineering Technology/Technician
- Occupational Health and Industrial Hygiene
- Operations Management and Supervision
- Environmental Health

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
- Participate and compete in SkillsUSA - Job shadow a machinist	- Work in a local business or industry apprenticeship - Join the American Welding Society

Industry-Based Certifications

- API 1104 Welding Pipelines and Related Facilities
- AWS Certified Welder
- ^AWS D1.1 Structural Steel
- ^AWS D9.1 Sheet Metal Welding
- AWS SENSE Level 1: Entry Welder
- Industrial Technology Maintenance (ITM) - Maintenance Welding
- NCCER Construction Technology Certification Level I
- NCCER Core
- NCCER Welding Level I
- Welding - Job Ready

^OSHA 30 Hour General*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

Welding
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Introduction to Welding	13032250 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Welding I	13032300 (2 credits)	None	None
*Introduction to Film Interpretation of Weldments	N1303687 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Welding II/Lab	13032400 (2 credits) 13032410 (3 credits)	Welding I	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Manufacturing	13033000 (2 credits) 13033005 (3 credits) 13033010 (2 credits) 13033015 (3 credits)	None	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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Business & Industry Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

TRANSPORTATION, DISTRIBUTION, & LOGISTICS

- **AUTOMOTIVE**

Transportation, Distribution, and Logistics Career Cluster

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

Automotive
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1

Level 2
- Collision Repair/Lab

Level 3
- Paint and Refinishing/Lab

Level 4
- Practicum in Transportation Systems

Postsecondary Opportunities

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

Bachelor's Degrees
- Mechanical Engineering/ Mechanical Technology/ Technician

Master's, Doctoral, and Professional Degrees
- Mechanical Engineering

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Join SkillsUSA or the Automotive Service Association	• Work at a local automotive repair or body shop

Industry-Based Certifications

- ASE Entry Level Automobile Maintenance and Light Repair (MR)
- ASE Entry-Level Automobile Automatic Transmission/Transaxle (AT)
- ASE Entry-Level Automobile Brakes (BR)
- ASE Entry-Level Automobile Electronic/Electrical Systems (EE)
- ASE Entry-Level Automobile Engine Performance (EP)
- ASE Entry-Level Automobile Engine Repair (ER)
- ASE Entry-Level Automobile Heating and Air Conditioning (AC)
- ASE Entry-Level Automobile Manual Drive Train and Axles (MD)
- ASE Entry-Level Automobile Service Technology
- ASE Entry-Level Automobile Suspension and Steering (SS)
- ASE Entry-Level Collision Mechanical and Electrical Components (ME)
- ASE Entry-Level Collision Non-Structural Analysis and Damage Repair (SR)
- ASE Entry-Level Collision Painting and Refinishing (PR)
- ASE Entry-Level Collision Structural Analysis and Damage Repair
- ASE Refrigerant Recovery and Recycling
- Principles of Small Engine Technology Certification
- Small Engine Technology
- ^Commercial Driver's License – Class A & Class B

- ^OSHA 30 Hour General*
- ASE Suspension and Steering*
- ASE Structural Analysis Damage Repair*
- ASE Painting & Refinishing*
- ASE Non-Structural Analysis Damage Repair*
- ASE Mech Elec Components*
- ASE Manual Drive Train Axles*
- ASE Maintenance Light Repair*
- ASE Heating, Ventilation, AC (HVAC)*
- ASE Auto Transmission*
- ASE Automobile Service Technology*
- ASE Brakes*
- ASE Electrical/Electronic Systems*
- ASE Engine Performance*
- ASE Engine Repair*
  ^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

TEA Texas Education Agency

Automotive
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Principles of Transportation Systems	13039250 (1 credit)	None	None
*Small Engine Technology I	13040000 (1 credit)	None	None
*Basic Collision Repair and Refinishing	13039750 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Automotive Basics	13039550 (1 credit)	None	None
*Introduction to Transportation Technology	13039270 (.5 credit)	None	None
*Small Engine Technology II	13040100 (2 credits)	Small Engine Technology I	None
Collision Repair/Lab	13039800 (2 credits) 13039810 (3 credits)	None	None
*Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Automotive Technology I: Maintenance and Light Repair	13039600 (2 credits)	None	None
*Energy and Power of Transportation Systems	13039300 (1 credit)	None	None
Paint and Refinishing/Lab	13039900 (2 credits) 13039910 (3 credits)	None	None

Level 4

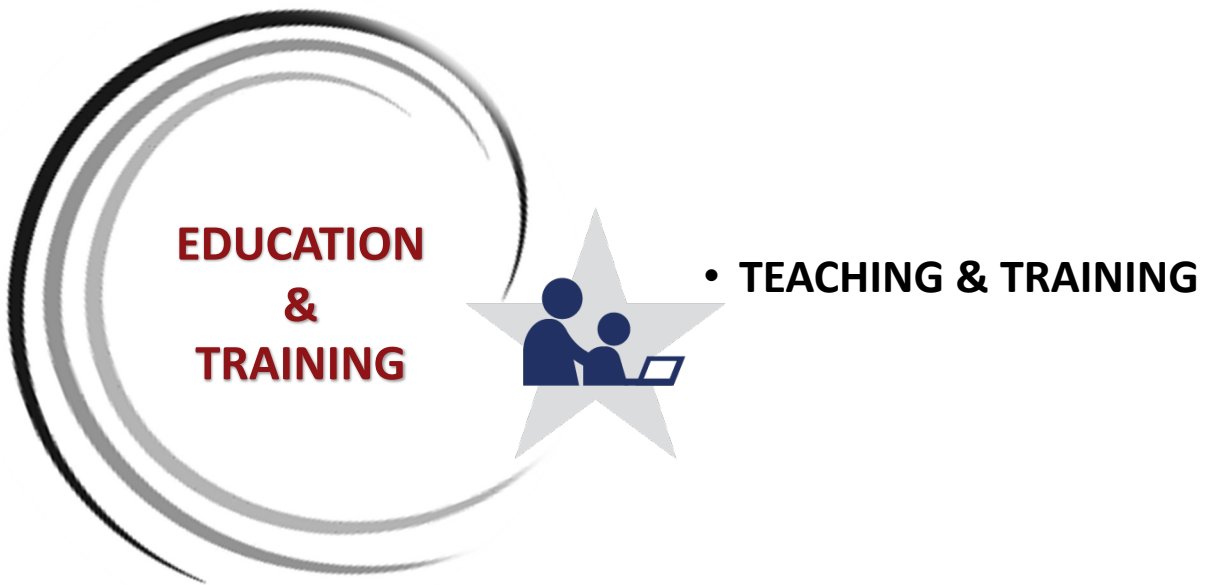| COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Automotive Technology II/Lab	13039700 (2 credits) 13039710 (3 credits)	Automotive Technology I: Maintenance and Light Repair	None
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits) 13040460 (2 credits) 13040465 (3 credits)	None	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

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CAREER CLUSTER   **PROGRAMS OF STUDY**

EDUCATION
&
TRAINING

- **TEACHING & TRAINING**

Education and Training Career Cluster

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

Teaching and Training
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
• Principles of Education and Training

Level 2
• Human Growth and Development

Level 3
• Instructional Practices

Level 4
• Practicum in Education and Training

Postsecondary Opportunities

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

Bachelor's Degrees
• Bilingual and Multilingual Education
• Education, General (or specific subject area)
• Special Education
• Health and Physical Education/Fitness

Master's, Doctoral, and Professional Degrees
• Instruction and Learning
• Educational Leadership and Administration, General
• Special Education
• Social and Philosophical Foundations of Education

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in the Texas Association of Future Educators or Family, Career, and Community Leaders of America	• Teach a community education class • Intern as a teaching assistant or tutor • Serve as a camp counselor

Industry-Based Certifications

• Educational Aide I
• **^**Region One Substitute Academy

^Offered at Donna ISD

Aligned Occupations

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

Successful completion of the Teaching and Training program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

Teaching and Training Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Education and Training	13014200 (1 credit)	None	None
*Principles of Human Services	13024200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Human Growth and Development	13014300 (1 credit)	None	None
*Child Development	13024700 (1 credit)	None	None
*Communication and Technology in Education	N1300510 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Instructional Practices	13014400 (2 credits)	1 credit from Education and Training Career Cluster	None
*Teaching Strategies for Special Populations (TBD)	TBD	TBD	TBD

Level 4

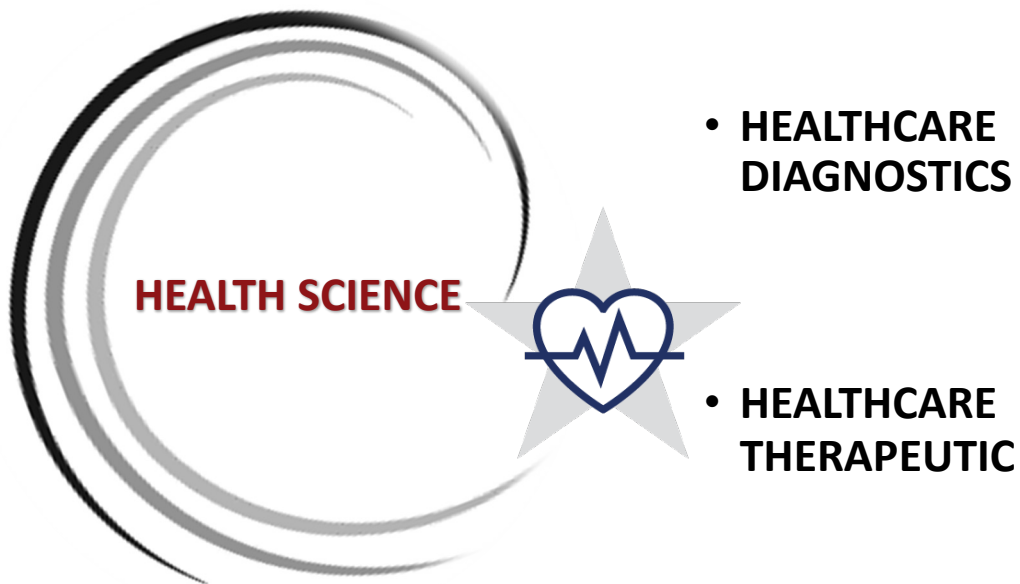| COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Education and Training	13014500 (2 credits) 13014505 (3 credits) 13014510 (2 credits) 13014515 (3 credits)	Instructional Practices	None
*Project Based Research	12701500 (1 credit)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

*Not Currently Offered at Donna ISD

FOR ADDITIONAL INFORMATION ON THE EDUCATION AND TRAINING CAREER CLUSTER,
PLEASE CONTACT: CTE@tea.texas.gov OR VISIT https://tea.texas.gov/cte

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Public Service Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

HEALTH SCIENCE

- **HEALTHCARE DIAGNOSTICS**

- **HEALTHCARE THERAPEUTIC**

Health Science Career Cluster

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

Healthcare Diagnostics
Statewide Program of Study

The Healthcare Diagnostics program of study introduces students to occupations and education 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 ultrasound technology.

Secondary Courses for High School Credit

Level 1
- Principles of Health Science

Level 2
- Medical Terminology

Level 3
- Health Science Theory/Health Science Clinical
- Medical Microbiology

Level 4
- Anatomy and Physiology
- Pathophysiology
- Practicum in Health Science

Postsecondary Opportunities

Associates Degrees
- Nuclear Medical Technology/Technologist
- Magnetic Resonance Imaging (MRI) Technology/Technician

Bachelor's Degrees
- Nuclear Medical Technology/Technologist
- Medical Radiologic Technology/Science Radiation Therapist

Master's, Doctoral, and Professional Degrees
- Radiologist
- Radiologic Technology/Science Radiographer

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Health Occupation Students of America	• Perform clinical rotations at a community wellness center, hospital, assisted living, nursing home

Industry-Based Certifications

- Certified Cardiographic Technician
- Certified Clinical Medical Assistant
- Emergency Medical Technician - Basic
- ^Certified EKG Technician
- ECG Technician
- Limited Medical Radiologic Technologist
- Medical Assistant
- Medical Laboratory Assistant
- Medical Laboratory Technician
- Nationally Registered Certified EKG Technician
- ^Phlebotomy Technician

- Registered Diagnostic Medical Sonographer - Abdomen*
- Registered Diagnostic Medical Sonographer - Obstetrics and Gynecology*
- Registered Technologist - Cardiac-Interventional Radiography*
- Registered Technologist - Computed Tomography*
- Registered Technologist - Magnetic Resonance Imaging*
- Registered Technologist - Mammography*
- Registered Technologist - Nuclear Medicine Technology*
- Registered Technologist - Radiography*
- Registered Technologist - Sonography*
- Registered Technologist - Vascular Sonography*
- Registered Technologist - Vascular-Interventional Radiography*
- Registered Vascular Technology*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Diagnostic Medical Sonographers	$69,909	495	35%
Phlebotomist	$30,597	1,442	36%
Nuclear Medicine Technologists	$75,962	91	13%
Radiologic Technologists	$55,494	1,196	21%
Magnetic Resonance Imaging Technologists	$68,661	217	21%

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

TEA
Texas Education Agency

Healthcare Diagnostics
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Health Science	13020200 (1 credit)	None	None
*Principles of Diagnostic Healthcare	N1302106 (1 credit)	None	None
*Introduction to Imaging Technology	N1302102 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Terminology	13020300 (1 credit)	None	None
*Imaging Technology I	N1302123 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Health Science Theory/Health Science Clinical	13020400 (1 credit) 13020410 (2 credits)	Biology	None
Medical Microbiology	13020700 (1 credit)	Biology and Chemistry	None
*Imaging Technology II	N1302131 (1 credit)	Imaging Technology I	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Anatomy and Physiology	13020600 (1 credit)	Biology and a second science credit	None
*Pathophysiology	13020800 (1 credit)	Biology and Chemistry	None
Practicum in Health Science	13020500 (2 credits) 13020505 (3 credits) 13020510 (2 credits) 13020515 (3 credits)	Health Science Theory and Biology	None

*Not Currently Offered at Donna ISD

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Health Science Career Cluster

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

Healthcare Therapeutic
Statewide Program of Study

The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

Secondary Courses for High School Credit

Level 1
- Principles of Health Science

Level 2
- Medical Terminology

Level 3
- Anatomy and Physiology
- Health Science Theory/Health Science Clinical
- Medical Microbiology

Level 4
- Pathophysiology
- Pharmacology
- Practicum in Health Science

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in SkillsUSA or Health Occupation Students of America	• Volunteer at a community wellness center, hospital, assisted living, or nursing home

Industry-Based Certifications

- ^Certified Clinical Medical Assistant
- Certified Dental Assistant
- ^Certified EKG Technician
- Emergency Medical Technician - Basic
- ^Certified Nurse Aide (CNA)
- Certified Occupational Therapy Assistant
- ^Certified Patient Care Technician (CPCT)
- ECG Technician
- Medical Assistant
- Medical Laboratory Assistant
- Nationally Registered Certified EKG Technician
- ^Patient Care Technician
- ^Pharmacy Technician
- ^Phlebotomy Technician
- Registered Dental Assistant X-Ray Certification

- Certified Ophthalmic Technician*
- Certified Surgical Technologist*
- Licensed Dental Hygienist*
- Orthopedic Technologist*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Postsecondary Opportunities

Associates Degrees
- Dental Hygienist
- Medical/Clinical Assistant

Bachelor's Degrees
- Dental Hygienist

Master's, Doctoral, and Professional Degrees
- Dentist
- Physician Assistant
- Family and General Practitioners
- Pharmacist

Aligned Occupations

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

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

TEA
Texas Education Agency

Healthcare Therapeutic
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Health Science	13020200 (1 credit)	None	None
*Principles of Therapeutic Healthcare	N1302110 (1 credit)	None	None
*Introduction to Pharmacy Science	N1302103 (1 credit)	None	None
*Introduction to Dental Science	N1302101 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Terminology	13020300 (1 credit)	None	None
*Dental Anatomy and Physiology	N1302122 (1 credit)	None	None
*Pharmacy I	N1302127 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Anatomy and Physiology	13020600 (1 credit)	One credit in Biology, one credit in Chemistry, Integrated Physics and Chemistry, or Physics.	None
Health Science Theory/ Health Science Clinical	13020400 (1 credit) 13020410 (2 credits)	Biology	None
Medical Microbiology	13020700 (1 credit)	Biology and Chemistry	None
*Pharmacy II	13021030 (2 credits)	Biology and Chemistry and Pharmacy I	None
*Medical Assistant	13021015 (1 credit)	Anatomy and Physiology	Anatomy and Physiology
*Dental Equipment and Procedures	N1302130 (1 credit)	None	None

See next page for Level 4 courses

Healthcare Therapeutic
Course Information

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Pathophysiology	13020800 (1 credit)	Biology and Chemistry	None
Pharmacology	13020950 (1 credit)	Biology and Chemistry	None
Practicum in Health Science	13020500 (2 credits) 13020505 (3 credits) 13020510 (2 credits) 13020515 (3 credits)	Health Science Theory and Biology	None

*Not Currently Offered at Donna ISD

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CAREER CLUSTER

PROGRAMS OF STUDY

HUMAN SERVICES

- **COSMETOLOGY & PERSONAL CARE SERVICES**
  - **BARBERING**
  - **COSMETOLOGY**
  - **NAIL TECHNICIAN**

CTE
DISD

Human Services Career Cluster

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

Cosmetology and Personal Care Services
Regional Program of Study

The Cosmetology and Personal Care Services regional program of study introduces CTE learners to knowledge and skills related to providing beauty and personal care services. CTE concentrators may learn about or practice managing personal care facilities and coordinating or supervising personal service workers.

Secondary Courses for High School Credit

Level 1
- Principles of Cosmetology Design and Color Theory

Level 2
- Introduction to Cosmetology

Level 3
- Cosmetology I/Lab
- Barbering I

Level 4
- Cosmetology II/Lab
- Barbering II

Postsecondary Opportunities

Certificate/License
- Certified Aesthetic Laser Operator
- Cosmetologist
- Certified Spa Supervisor
- Nail Technician/Specialist and Manicurist

Associates Degrees
- Cosmetology/Cosmetologist, General
- Aesthetician/Esthetician and Skin Care Specialist
- Salon/Beauty Salon Management/Manager
- Cosmetology, Barber/Styling, and Nail Instructor

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in TIVA or SkillsUSA	• Job shadow a cosmetologist • Work part-time at a salon, spa, or barbershop

Industry-Based Certifications

- ^Cosmetology Operator License
- Cosmetology Esthetician Specialty License
- ^Cosmetology Manicurist Specialty License
- ^Barber Operating License

^Offered at Donna ISD

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
First-Line Supervisors of Personal Service Workers	$36,941	1,634	24%
Barbers	$28,267	348	14%
Hairdressers, Hairstylists, and Cosmetologists	$21,507	3,489	22%
Manicurists and Pedicurists	$21,715	418	45%
Shampooers	$18,720	139	24%
Skincare Specialists	$26,437	637	22%

Successful completion of the Cosmetology and Personal Care Services regional program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

Cosmetology and Personal Care Services Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Cosmetology Design and Color Theory	13025050 (1 credit)	None	None
*Microbiology and Safety for Cosmetology Careers	N1302540 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Introduction to Cosmetology	13025100 (1 credit)	None	None
Nail Care, Enhancements, and Spa Services	N1302531 (2 credits)	None	None
*Esthetics	N1302533 (2 credits)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Cosmetology I/Lab	13025200 (2 credits) 13025210 (3 credits)	None	None
Barbering I	N1302534 (3 credits)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Cosmetology II/Lab	13025300 (2 credits) 13025310 (3 credits)	Cosmetology I	None
Barbering II	N1302535 (3 credits)	Barbering I	None

*Not Currently Offered at Donna ISD

FOR ADDITIONAL INFORMATION ON THE HUMAN SERVICES CAREER CLUSTER,
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Public Service Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

LAW
&
PUBLIC SERVICE

- **LAW ENFORCEMENT**

Law and Public Service Career Cluster

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

Law Enforcement
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Law, Public Safety, Corrections, and Security

Level 2
- Law Enforcement I
- Criminal Investigation

Level 3
- Law Enforcement II
- Correctional Services

Level 4
- Forensic Science

Postsecondary Opportunities

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

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

Master's, Doctoral, and Professional Degrees
- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Natural Resources
- Law Enforcement and Protective Services

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Join the Texas Public Service Association or local criminal justice clubs	• Attend court hearings and other legal procedures

Industry-Based Certifications

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

^Offered at Donna ISD

Aligned Occupations

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

Successful completion of the Law and Public Service program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

TEA
Texas Education Agency

Law Enforcement
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Law, Public Safety, Corrections, and Security	13029200 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Law Enforcement I	13029300 (1 credit)	None	None
*Federal Law Enforcement and Protective Services	13029800 (1 credit)	None	None
Criminal Investigation	13029550 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Law Enforcement II	13029400 (1 credit)	None	None
Correctional Services	13029700 (1 credit)	None	None
*Forensic Psychology	N1303012 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Counseling and Mental Health	13024600 (1 credit)	None	None
Forensic Science	13029500 (1 credit)	Biology and Chemistry	None
*Practicum in Law, Public Safety, Corrections, and Security	13030100 (2 credits) 13030105 (3 credits) 13030110 (2 credits) 13030115 (3 credits)	None	None

*Not Currently Offered at Donna ISD

FOR ADDITIONAL INFORMATION ON THE LAW AND PUBLIC SERVICE CAREER CLUSTER,
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Science, Technology, Engineering, & Mathematics Endorsement

CAREER CLUSTER

PROGRAMS OF STUDY

SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS

- **CYBERSECURITY**

- **ENGINEERING**

- **PROGRAMMING & SOFTWARE DEVELOPMENT**

Science, Technology, Engineering, and Mathematics Career Cluster

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

Cybersecurity
Statewide Program of Study

The Cybersecurity program of study

Secondary Courses for High School Credit

Level 1
- Principles of Information Technology
- Fundamentals of Computer Science
- Foundations of Cybersecurity

Level 2
- Computer Science I

Level 3
- Networking/Lab
- AP Computer Science A Math
- AP Computer Science B LOTE

Level 4
- Cybersecurity Capstone

Postsecondary Opportunities

Associates Degrees
- System Networking, and LAN/WAN Management
- Information Technology
- Computer and Information Sciences, General
- Computer Science

Bachelor's Degrees
- Computer Systems Networking and Telecommunications
- Computer Systems Networking and Telecommunications
- Computer and Information Sciences, General
- Computer Science

Master's, Doctoral, and Professional Degrees
- Computer Systems Analysis/Analyst
- Information Technology
- Computer Information Sciences, General
- Computer Science

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
- Participate in Skills USA competitions - Job shadow a computer system analyst or information security analyst	- Obtain a cybersecurity IBC

Industry-Based Certifications

- Cisco 100-490 RSTECH Supporting Cisco Routing and Switching Network Devices
- Cisco 200-201 CBROPS - Understanding Cisco Cybersecurity Operations Fundamentals
- Cisco CCNA (200-301) Implementing and Administering Cisco Solutions
- CodeHS Cybersecurity Level 1 Certification
- CompTIA A+ Certification
- CompTIA Network+
- CompTIA Security+
- Computer Networking Fundamentals – Job Ready
- ^Cybersecurity Fundamentals
- CyberSecurity Fundamentals: An ISACA Certificate
- Information Technology Specialist: Java
- Information Technology Specialist: JavaScript
- Information Technology Specialist: Networking
- Microsoft Security, Compliance, and Identity Fundamentals
- Microsoft 365 Fundamentals
- Oracle Certified Associate Java SE 8 Programmer

- -

- Associate of (ISC)*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Information Security Analysts	$91,915	814	29%
Network and Computer System Administrators	$82,597	2,814	19%
Computer System Analysts	$87,568	5,937	29%

Successful completion of the Cybersecurity program of study will fulfill requirements of the STEM Endorsement.   Revised – October 2022

TEA
Texas Education Agency

Cybersecurity
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Information Technology	1302700 (1 credit)	None	None
Fundamentals of Computer Science	03580140 (1 credit)	None	None
Foundations of Cybersecurity	03580850 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Internetworking Technologies	N1302803 (1 credit)	None	None
Computer Science I	03580200 (1 credit)	Algebra I	None
*AP Computer Science Principles	A3580300 (1 credit)	None	None
*Computer Maintenance/Lab	13027300 (1 credit) 13027310 (2 credits)	Principles of Technology	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Engineering Application of Computer Science Principles	N1303772 (1 credit)	None	None
Networking/Lab	13027400 (1 credit) 13027410 (2 credits)	None	None
*Digital Forensics	03580360 (1 credit)	None	None
*Internetworking Technologies II	N1302804 (1 credit)	Internetworking Technologies I	None
AP Computer Science A - Math	A3580110 (1 credit)	None	None
AP Computer Science B - LOTE	A3580120 (1 credit)	None	None
*IB Computer Science Standard Level	I3580200 (1 credit)	None	None
*Discrete Mathematics for Computer Science	03580370	Algebra II	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Cybersecurity Capstone	03580855 (1 credit)	None	None
*Practicum in Information Technology	13028000 (2 credits) 13028005 (3 credits)	2 high school Info. Tech. courses	None
Practicum in STEM	13037400 (2 credits) 13037405 (3 credits)	Algebra I and Geometry	None
*Project-Based Research	1270100 (1 credit)	None	None
*Independent Study in Technology Applications	03580900 (1 credit)	None	None
*Independent Study in Evolving/Emerging Technologies	03581500 (1 credit)	None	None
*IB Computer Science Higher Level - Math	I3580310 (1 credit)	None	None
*IB Computer Science Higher Level - LOTE	13580320 (1 credit)	None	None

*Not Currently Offered at Donna ISD

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Science, Technology, Engineering, and Mathematics Career Cluster

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

Engineering
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Applied Engineering

Level 2
- Manufacturing Engineering Technology I

Level 3
- Digital Electronics

Level 4
- Engineering Design and Problem Solving

Postsecondary Opportunities

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

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

Master's, Doctoral, and Professional Degrees
- Electrical and Electronics Engineering
- Mechanical Engineering
- Bioengineering and Biomedical Engineering

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Skills USA competitions	• Intern at an engineering firm • Shadow a machinist

Industry-Based Certifications

- **^**Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) & Professional Fusion 360
- Autodesk Associate (Certified User) & Professional Inventor for Mechanical Design
- Autodesk Associate (Certified User) & Professional Revit Architecture
- Autodesk Associate (Certified User) & Professional Revit for Electrical
- Autodesk Associate (Certified User) & Professional Revit for Structural Design
- **^**Autodesk Certified Professional in AutoCAD-Design & Drafting
- Autodesk Certified Professional in Civil 3D-Infrastructure Design
- Autodesk Certified Professional in Revit for Architectural Design
- Autodesk Certified User & Professional in Inventor
- C-103 Certified Industry 4.0 Associate - Robot System Operations
- Engineering Technology Foundations
- Lean Six Sigma Green Belt Certification
- Pre-Engineering/Engineering Technology - Job Ready
- Certified SOLIDWORKS Associate (CSWA) - Electrical
- **^**Certified SOLIDWORKS Associate (CSWA) - Academic
- Certified SOLIDWORKS Associate (CSWA) - Mechanical Design
- Certified SOLIDWORKS Associate (CSWA) - Simulation
- Certified SOLIDWORKS Associate (CSWA) - Sustainability
- Certified SOLIDWORKS Professional (CSWP) - Model Based Definition
- Certified SOLIDWORKS Professional (CSWP) – Academic
- Certified SOLIDWORKS Professional (CSWP) – Simulation
- Certified SOLIDWORKS Professional (CSWP) – Mechanical Design
- Certified SOLIDWORKS Associate Professional (CSWP) -- Drawing Tools

- -

- **^**Certified SOLIDWORKS Associate*

^Offered at Donna ISD   *IBC sunsetting 8/31/24

Aligned Occupations

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

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

TEA Texas Education Agency

Engineering
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Applied Engineering	13036200 (1 credit)	None	None
*Introduction to Engineering Design (PLTW)	N1303742 (1 credit)	None	None
*Engineering Essentials (PLTW)	N1303760 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Manufacturing Engineering Technology I	13032900 (1 credit)	None	None
Digital Electronics	13037600 (1 credit)	Algebra I and Geometry	None
*Engineering Science	13037500 (1 credit)	Algebra I, Biology, Chemistry and either Integrated Physics (IPC) or Physics	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Engineering Design and Development (PLTW)	N1303749 (1 credit)	None	None
*Engineering Design and Presentation I	13036500 (1 credit)	Algebra I	None
*Computer Integrated Manufacturing (PLTW)	N1303748 (1 credit)	None	None
*Aerospace Engineering (PLTW)	N1303745 (1 credit)	None	None
*Civil Engineering & Architecture (PLTW)	N1303747 (1 credit)	None	None
*Environmental Sustainability (PLTW)	N1303746 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Engineering Design & Problem Solving	13037300 (1 credit)	Algebra I and Geometry	None
*Engineering Design and Presentation II	13036600 (2 credits)	Algebra I and Geometry	None
*Practicum in Science, Technology, Engineering, and Mathematics	13037400 (2 credits) 13037405 (3 credits) 13037410 (2 credits) 13037415 (2 credits)	Algebra I and Geometry	None
Scientific Research & Design	13037200 (1 credit)	Biology, Chemistry and either Integrated Physics (IPC) or Physics	None

*Not Currently Offered at Donna ISD

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY, ENGINEERING AND MATH CAREER CLUSTER, PLEASE CONTACT: CTE@tea.texas.gov OR VISIT https://tea.texas.gov/cte

The Public Notification of Nondiscrimination can be found in our Donna ISD's CTE webpage at https://tx50000621.schoolwires.net/Domain/76

Science, Technology, Engineering, and Mathematics Career Cluster

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

Programming and Software Development
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Fundamentals of Computer Science

Level 2
- Computer Science I

Level 3
- AP Computer Science A, MATH
- AP Computer Science A, LOTE
- Computer Science II

Level 4
- Computer Science III
- Practicum in Information Technology
- Practicum in Science, Technology, Engineering, and Mathematics

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Join TSA • Participate in a coding club at school	• Obtain a programming IBC

Industry-Based Certifications

- Apple App Development with Swift
- C++ Certified Associate Programmer
- Certified Entry-Level Python Programmer (PCEP)
- Certified Professional Programmer
- Certified User Programmer
- CompTIA Unux+
- CodeHS Python Level 1 Certification
- Information Technology Specialist: Java
- Information Technology Specialist: JavaScript
- Microsoft Azure Al Fundamentals
- Microsoft Azure Data Fundamentals
- Oracle Certified Associate Java SE 8 Programmer
- Oracle Database SQL Certified Associate

Postsecondary Opportunities

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

Bachelor's Degrees
- Management Information Systems, General
- Computer Software Engineer
- Computer Science
- Information Science/ Studies

Master's, Doctoral, and Professional Degrees
- Computer Software Engineer
- Computer Science
- Information Science/ Studies

Aligned Occupations

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

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

Programming and Software Development
Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Fundamentals of Computer Science	03580140 (1 credit)	None	None

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Advanced Cloud Computing	N1302813 (1 credit)	None	None
*AP Computer Science Principles	A3580300 (1 credit)	None	None
*Computer Science I	03580200 (1 credit)	None	Algebra I
*Game Programming and Design	03580380 (1 credit)	Algebra I	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
*Introduction to C# Programming Applications	N1302812 (1 credit)	None	None
AP Computer Science A, MATH, LOTE	A3580110 (1 credit) A3580120 (1 credit)	None	None
*Mobile Application Development	03580390 (1 credit)	Algebra I	None
*Computer Science II	03580300 (1 credit)	Algebra I, Computer Science I, or Fundamentals of Computer Science	None
*IB Computer Science Standard Level	I3580200 (2 credits)	None	None
*Discrete Mathematics for Computer Science	03580370 (1 credit)	Algebra I	None
*Advanced Cloud Computing	N1302813 (1 credit)	None	None

Level 4

Course Name	Service ID	PREREQUISITES	COREQUISITES
*Computer Science III	03580350 (1 credit)	Computer Science II, AP Computer Science A	None
*IB Computer Science Higher Level, MATH, LOTE	I3580320 (1 credit) I3580310 (1 credit)	None	None
*Practicum in Information Technology	13028000 (2 credits) 13028005 (3 credits) 13028010 (2 credits) 13028015 (3 credits)	Two high school Information Technology courses	None

See next page for additional Level 4 courses

Programming and Software Development
Course Information

Level 4 Continued

Course Name	Service ID	PREREQUISITES	COREQUISITES
*Practicum in Audio/Video Production	13008700 (2 credits) 13008705 (3 credits) 13008710 (2 credits) 13008715 (3 credits)	Audio/Video Production II Lab	None
*Practicum in Science, Technology, Engineering, and Mathematics	13037400 (2 credits) 13037405 (3 credits) 13037410 (2 credits) 13037415 (3 credits)	Algebra I and Geometry	None
*Practicum in Entrepreneurship	N1303425 (2 credits)	None	None
*Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None
*Independent Study in Technology Applications	03580900 (1 credit)	None	None
*Independent Study in Evolving/Emerging Technologies	03581500 (1 credit)	None	None

*Not Currently Offered at Donna ISD

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The Public Notification of Nondiscrimination can be found in our Donna ISD's CTE webpage at https://tx50000621.schoolwires.net/Domain/76

Texas CTE Indicator Autocoding
Codes and Definitions
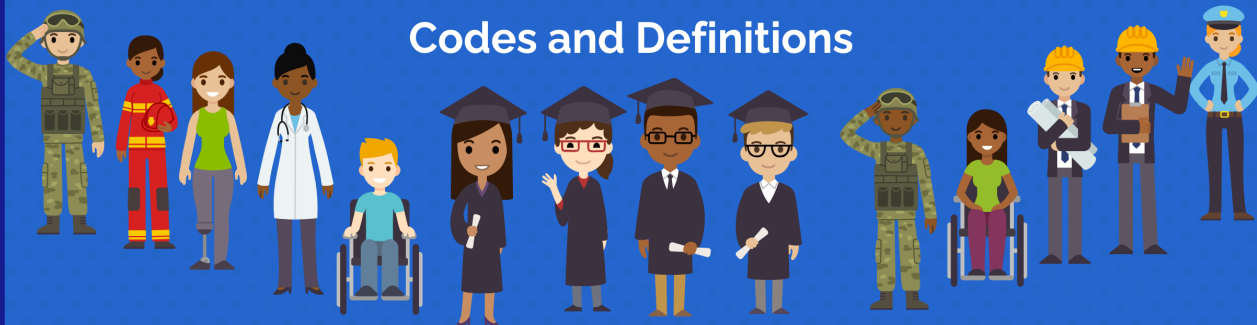
Not CTE

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

CTE Participants

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

CTE Explorers

Code E (CTE Explorer): A student completing two or more high school CTE courses for a total of two or more credits defined by 19 TAC Chapter 126 (C), 127 (B) or 130 and not a participant, concentrator or completer (the student does not have to pass or receive credit).

CTE Explorers*

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

CTE Concentrators

Code 6 (CTE Concentrator): A student completing and passing two or more 19 TAC Chapter 126 (C), 127 (B) or 130 CTE courses for a total of at least two credits within the same program of study and not a completer.

CTE Completers

Code 7 (CTE Completer): A student completing and passing three or more 19 TAC Chapter 126 (C), 127 (B) or 130 CTE courses for a total of four or more credits within a program of study, including one level three or level four course from within the same program of study.

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

CTE Dual Credit Crosswalk

HS Course	HS Course Code	HS Service ID	STC Course	STC Course Description	College Credit Hours Earned
Intro to Welding CC-(S1) 11th - Fall only	CCM2250	13032250	WLDG 1327	Welding Codes & Standards	3
Welding I CC 11th-Fall Semester 1	CCM2300	13032300	WLDG 1317	Intro. to Layout & Fabrication	3
Welding I CC 11th-Spring Semester 2	CCM2300	13032300	WLDG 1428	Intro. to Shielded Metal Arc Welding (SMAW)	4
Intro to Welding CC-(S2) 11th-(AM) Summer I	CCM2250	13032250	WLDG 1430	Intro. to Gas Metal Arc Welding (GMAW)	4
Welding II CC (S1) 11th - (PM) Summer 1	CCM2400	13032400	WLDG 1312	Intro. to Flux Cored Arc Welding (FCAW)	3
Welding II CC (S2) 11th - (AM) Summer III	CCM2400	13032400	WLDG 1434	Intro. to Gas Tungsten Arc Welding (GTAW)	4
Practicum in Manufacturing CC 12th – Fall Semester 1	CCM3000	13033000	WLDG 1453	Intermediate Layout & Fabrication	4
Practicum in Manufacturing CC 12th – Spring Semester 2	CCM3000	13033000	WLDG 1457	Intermediate Shielded Metal Arc Welding (SMAW)	4
				Total College Hours	29

Postsecondary Options-Welding Technology

Combination Welding Certificate (Structural Welding Certificate Plus 3 Additional STC Welding Courses)		
STC Course	**STC Course Description**	**College Credit Hours**
WLDG 2451	Advanced Gas Tungsten Arc Welding (GTAW)	4
WLDG 2406	Intermediate Pipe Welding	4
WLDG 2413	Capstone: Intermediate Welding Using Multiple Processes	4
	Total Credit Hours (Structural Welding Certificate plus 12 additional college credit hours)	**41**

Welding Associate of Applied Science 60 College Credit Hours		
STC Course	**STC Course Description**	**College Credit Hours**
ENGL 1301	*Composition I	3
ARTS 1301	*Humanities Elective	3
MATH 1414	*Math Elective	3
HIST 1301 or ECON 2301 or HIST 2327 or GOVT 2304 or PSYC 2301	*Social and Behavioral Science Elective	3
	*Speech Elective	3
	*Courses offered at Donna ISD High Schools/Can be taken in High School while earning the Structural Welding Certificate	
WLDG 2435	Advanced Layout and Fabrication	4
	Total Credit Hours (Combination Welding Certificate plus 19 additional college credit hours)	**60**

CTE Courses for High School Core Credit

ENGLISH
Business English

MATH
Applied Math for Tech. Professionals
*Accounting II
*AP Computer Science-Math
Discrete Mathematics for Computer Science
Engineering Math
*Financial Mathematics
Mathematical Applications in Agriculture, Food & Natural Resources
*Mathematics for Medical Professionals
Manufacturing Engineering Tech II
*Robotics II
Statistics & Decision Making

SCIENCE
Principles of Technology
*Advanced Animal Science
*Advanced Plant & Soil Science
*Anatomy & Physiology
Biotechnology I, II
*Engineering Design & Problem Solving
Engineering Science
Food Science
*Forensics Science
*Medical Microbiology
*Pathophysiology
Principles of Technology
Scientific Research and Design I, II, III

Electives/CTE Credit (Non-Core)
*Floral Design (Fine Arts) - 1 credit
Digital Arts and Animation (Fine Arts) - 1 credit
3D Modeling and Animation (Fine Arts) - 1 credit
*Professional Communications (Speech) – ½ credit
*AP Computer Science-LOTE – 1 credit

*Offered at Donna ISD/Not Available at both high schools

CTE 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 pursing 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 cocurricular 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 cocurricular activities to practice and enhance their leadership skills, consensus building, and project management.

Texas Future Business Leaders of America   **https://fblatx.org/**

FBLA aims to prepare students of all levels for their futures, whether they choose a career in anything from business to teaching. Our mission is to bring business and education together in a positive working relationship through innovative leadership and career development programs.

CTE Clubs and Organizations

**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.

Family, Career and Community Leaders of America (FCCLA) https://www.texasfccla.org/

FCCLA is a national Career and Technical Student Organization (CTSO) for students in Family and Consumer Sciences (FCS) education in public and private school through grade 12. FCCLA offers intra-curricular resources and opportunities for students to pursue careers that support families.
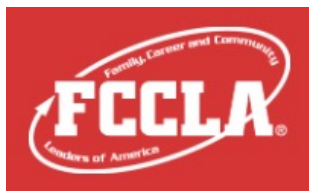
Health Occupations Students of America (HOSA)   **www.texashosa.org**

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.

CTE Clubs and Organizations

FIRST Robotics Club   https://www.firstinspires.org

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. For Inspiration and Recognition of Science and Technology is an international youth organization that operates the FIRST Robotics Competition, FIRST LEGO League Challenge, FIRST LEGO League Explore, FIRST LEGO League Discover, and FIRST Tech Challenge competitions.

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.

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.

CTE Clubs and Organizations

The Technology Student Association   www.texastsa.org

TSA is a national association of students engaged in STEM and the arts. Our membership is over 250,000 students strong spanning 48 U.S. states and includes high school and middle school students. Our organization is actively supported by educators, parents, business leaders and alumni! The Technology Student Association fosters personal growth, leadership, and opportunities in Science, Technology, Engineering, and Mathematics (STEM); members apply and integrate these concepts through co-curricular activities, competitions, and related programs.

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.

Texas Public Service Teacher Association (TXPSTA)   www.txpsta.org

TPSA is committed to the Educating of Students/Cadets through the development and delivery of high-quality lecture and hands on training.

The National Technical Honor Society is an educational non-profit that exists to honor, recognize, and empower students and teachers in Career & Technical Education. As the honor society for Career & Technical Education, NTHS serves over 100,000 active members annually in both secondary and postsecondary chapters across country. NTHS honors the achievements of top CTE students, provides scholarships annually, and strives to help connect education and industry to build a highly skilled workforce.

Pathway to Graduation

DONNA
INDEPENDENT SCHOOL DISTRICT
"THE DISTRICT"

COLLEGE   CAREER   MILITARY

GRADUATE

PATHWAY to

GRADUATION

Finalize College, Career or Military Plans

Explore Options and Take ACT/SAT/TSIA2/ASVAB Exams

Attend Classes & Earn Credits

Confirm High School Schedule

ARTS & HUMANITIES
BUSINESS & INDUSTRY
PUBLIC SERVICE
MULTIDISCIPLINARY STUDIES
STEM

Select Endorsement and Program of Study

Know Your Graduation Requirements

Review Endorsements

Research Careers

Take Career Assessment

Your Career Starts Here

Resources

CTE Resources:

TX CTE Resource Site
www.txcte.org

College and Career Planning Resources
www.texasoncourse.org

Career Assessments:

Career Coach
https://wfsolutions.emsicc.com

Career One Stop
https://www.careeronestop.org/Toolkit/Careers/interest-assessment-questions.aspx

Career Exploration:

Career, College Search and Financial Aid Information
www.everychanceeverytexan.org

Career Exploration
https://www.onetonline.org/

Career Options
https://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 & Preparation Resources
www.collegeboard.org

General Information on SAT and ACT
www.collegeboard.org and www.act.org

GenTX (Generation Texas)
www.gentx.org

Listing of Universities in the U.S.
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

Fastweb
www.fastweb.com

Labor Market and Career Information:

Labor Market and Career Information
www.lmci.state.tx.us

Occupational Outlook Handbook
https://www.bls.gov/ooh

Texas CREWS (TX Consumer Resources for Education
   and Workforce Statistics)
http://board.thecb.state.tx.us/apps/txcrews/

Texas Wages and Employment Projection
www.texaswages.com

Military Awareness:

ASVAB
www.asvabprogram.com

ARMY Resource/Test Prep Site
www.march2success.com

Careers in the Military
www.careersinthemilitary.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.
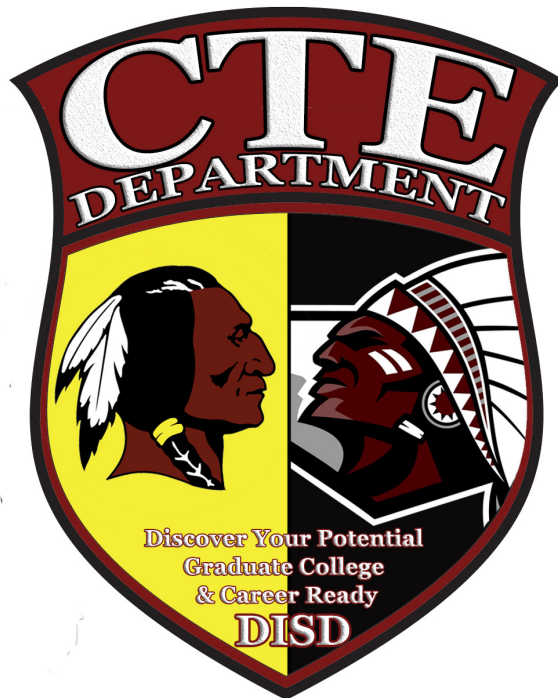
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