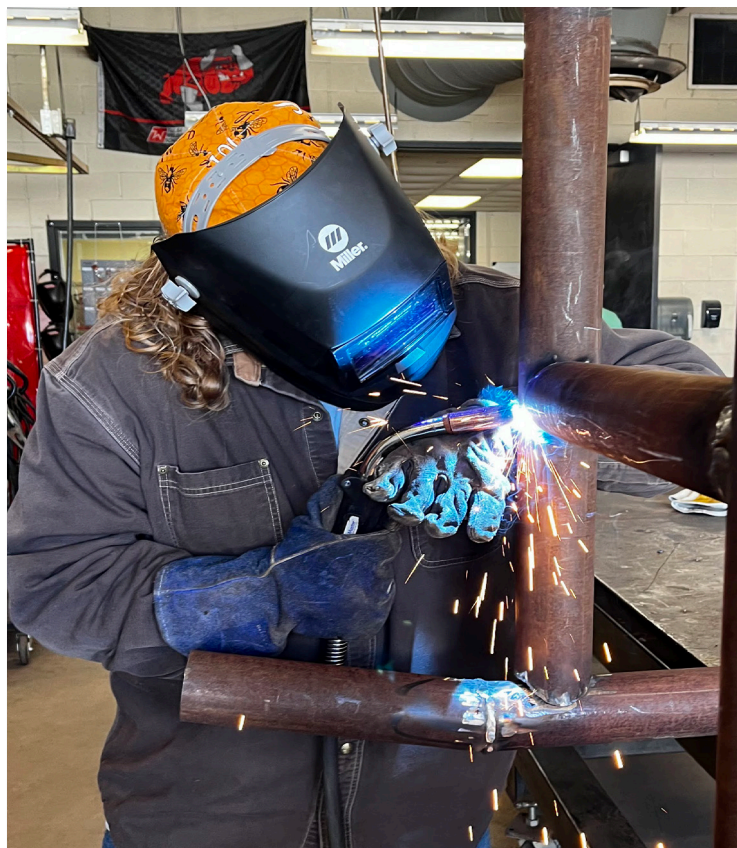
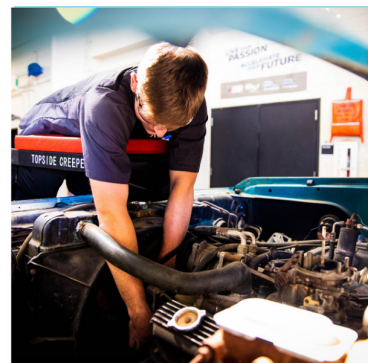
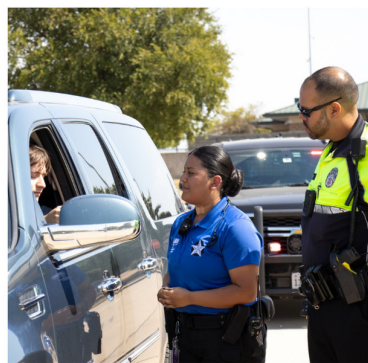
























# DENTON ISD CTE COURSE GUIDEBOOK











Student Edition



| Program   | 8th Grade   | 9th Grade  | 10th Grade  | 11th Grade  | 12th Grade  | Careers   |
|---|---|--|---|---|---|---|
| ENDORSEMENT: BUSINESS & INDUSTRY  |   |  |   |   |   |   |
| CLUSTER: AGRICULTURE, FOOD & NATURAL RESOURCES  |   |  |   |   |   |   |
| <br>Agricultural Technology and Mechanical Systems | <i>Principles of Business, Marketing, and Finance</i> | Principles of Agriculture, Food, and Natural Resources | Agricultural Mechanics and Metal Technologies and Lab           | Agricultural Structures Design and Fabrication and Lab                        | CTE Project-Based Capstone  | Equipment Operator<br>Carpenter<br>Plumber  |
| <br>Animal Science                                 | <i>Principles of Business, Marketing, and Finance</i> | Principles of Agriculture, Food, and Natural Resources | Small Animal Management AND Equine Science                      | Veterinary Medical Applications   | Practicum in Ag   | Veterinarian<br>Animal Biologist<br>Vet Tech  |
| <br>Plant Science                                  | <i>Principles of Business, Marketing, and Finance</i> | Principles of Agriculture, Food, and Natural Resources | Floral Design   | Advanced Floral Design  | Practicum in Ag - Floral Design   | Botanist<br>Floral Designer<br>Environmental Scientist  |
| CLUSTER: ARCHITECTURE & CONSTRUCTION  |   |  |   |   |   |   |
| <br>Architecture Design                            | <i>Principles of Applied Engineering</i>              | <i>Entrepreneurship I</i>                              | Architectural Design I  | Architectural Design II* (2 Blocks)   | Practicum in Architectural Design* (2 Blocks) OR Career Prep              | Architect<br>Civil Drafter  |
| <br>HVAC   | <i>Principles of Business, Marketing, and Finance</i> | Enterpreneurship I                                     | <i>Agricultural Mechanics and Metal Technologies and Lab</i>    | Heating, Ventilation, & Air Conditioning I**** and Sheet Metal**** (2 Blocks) | Heating, Ventilation, & Air Conditioning II**** (2 Blocks) OR Career Prep | HVAC Mechanic<br>Systems Engineer   |
| CLUSTER: ARTS, AUDIO VISUAL TECHNOLOGY & COMMUNICATIONS   |   |  |   |   |   |   |
| <br>Digital Communication                        | Principles of Arts, Audio/Video Tech & Communications | Entrepreneurship I                                     | <i>Digital Art and Animation</i> OR Professional Communications | Audio/Video Production I & II* (2 Blocks)                                     | Practicum in Audio/Video* (2 Blocks) OR Career Prep                       | Videographer<br>Post-Production Specialist<br>Broadcast   |
| <br>Graphic Design and Multimedia Arts            | Principles of Arts, Audio/Video Tech & Communications | Entrepreneurship I                                     | Digital Art and Animation                                       | Animation I & II* (2 Blocks)  | Practicum in Animation* (2 Blocks) OR Career Prep                         | Graphic Designer<br>Motion Graphics Artist<br>Creative Director<br>Commercial Photographer<br>Digital Marketing |
|   |   |  |   | Graphic Design 1 & 2* (2 Blocks)  | Practicum in Graphic Design* (2 Blocks) OR Career Prep                    |   |
|   |   |  |   | Commercial Photography 1 & 2* (2 Blocks)                                      | Practicum in Commercial Photography* (2 Blocks) OR Career Prep            |   |
| CLUSTER: BUSINESS, MARKETING & FINANCE  |   |  |   |   |   |   |
| <br>Business Management                          | Principles of Business, Marketing, and Finance        | Entrepreneurship I                                     | Business Information Management I                               | Business Information Management II  | Business Management OR Career Prep  | Retail Supervisor<br>Project Manager  |
| <br>Entrepreneurship                             | Principles of Business, Marketing, and Finance        | Entrepreneurship I                                     | Business Information Management I                               | Entrepreneurship II*** OR Practicum in Entrepreneurship                       | Career Prep   | Business Owner<br>General Manager   |
| <br>Marketing and Sales                          | Principles of Business, Marketing, and Finance        | Entrepreneurship I                                     | Social Media Marketing AND Sports and Entertainment Marketing   | Fundamentals of Real Estate   | Practicum in Entrepreneurship OR Career Prep                              | Marketing Specialist<br>Real Estate Agent<br>Social Media Manager   |

| Program  | 8th Grade                                | 9th Grade  | 10th Grade   | 11th Grade   | 12th Grade   | Careers   |
|--|--|--|--|--|--|---|
| CLUSTER: HOSPITALITY & TOURISM   |  |  |  |  |  |   |
| <br><b>Culinary Arts</b>  | <i>Principles of Human Services</i>      | Principles of Hospitality<br>OR<br>Entrepreneurship I            | Culinary Arts  | Advanced Culinary Arts*<br>(2 Blocks)  | Practicum in Culinary Arts*<br>(2 Blocks)<br>OR<br>Career Prep<br>OR<br>Food Science                                       | <b>Chef</b><br><b>Restaurant Manager</b><br><b>Line Cook</b>                            |
| CLUSTER: INFORMATION TECHNOLOGY  |  |  |  |  |  |   |
| <br><b>Cybersecurity</b>   | Principles of Information Technology     | Fundamentals of Computer Science                                 | Internetworking Technologies I   | Internetworking Technologies II  | Practicum in Information Technology*<br>(2 Blocks)<br>OR<br>Career Prep  | <b>Security Analyst</b><br><b>Systems Administrator</b><br><b>Penetration Tester</b>    |
| <br><b>IT Information Technology Support &amp; Services</b>               | Principles of Information Technology     | Fundamentals of Computer Science<br>OR<br>Entrepreneurship I     | Computer Maintenance & Lab<br>(2 Blocks)   | Computer Technician Practicum<br>(2 Blocks)  | Practicum in Entrepreneurship<br>OR<br>Career Prep   | <b>IT Technician</b><br><b>Computer Programmer</b><br><b>Systems Architect</b>          |
| <br><b>Programming and Software Development</b>                           | Principles of Information Technology     | Fundamentals of Computer Science<br>OR<br>Entrepreneurship I     | Computer Science I   | Computer Science II  | Computer Science III<br>OR<br>Career Prep  | <b>Computer Programmer</b><br><b>App Builder</b><br><b>Software Developer</b>           |
| CLUSTER: MANUFACTURING   |  |  |  |  |  |   |
| <br><b>(Coming Soon) Advanced Manufacturing and Industrial Technology</b> | <i>Principles of Applied Engineering</i> | Principles of Manufacturing                                      | <i>Introduction to Welding AND Agricultural Mechanics and Metal Technologies and Lab</i> | Welding I  | Career Prep  | <b>Machinist</b><br><b>Industrial Machinery Mechanic</b><br><b>Mechatronics Tech</b>    |
| <br><b>Welding</b>  | <i>Principles of Applied Engineering</i> | Principles of Manufacturing<br>OR<br>Entrepreneurship I          | Introduction to Welding  | Welding I<br>(2 Blocks)  | Welding II*<br>(2 Blocks)<br>OR<br>Career Prep   | <b>Welder</b><br><b>Cutter</b><br><b>Machine Setter</b>                                 |
| CLUSTER: TRANSPORTATION, DISTRIBUTION & LOGISTICS  |  |  |  |  |  |   |
| <br><b>Automotive and Collision Repair</b>                              | <i>Principles of Applied Engineering</i> | Principles of Transportation Systems<br>OR<br>Entrepreneurship I | Automotive Basics AND Introduction to Transportation Technology*<br>(2 Blocks)           | Automotive Technology I*<br>(2 Blocks)   | Automotive Technology II*<br>(2 Blocks)<br>OR<br>Career Prep   | <b>Automotive Mechanic</b><br><b>Collision Tech</b>                                     |
| <br><b>Aviation Pilots</b>   | <i>Principles of Applied Engineering</i> | Principles of Transportation Systems                             | <i>J.R.O.T.C. 1</i>  | Intro to Aircraft Technology** AND Aviation Ground School**<br>(2 Blocks)                          | Practicum in Transportation<br>(2 Blocks)<br>OR<br>Career Prep   | <b>Private Pilot</b><br><b>Commercial Pilot</b><br><b>Drone Pilot</b>                   |
| ENDORSEMENT: PUBLIC SERVICE  |  |  |  |  |  |   |
| CLUSTER: EDUCATION & TRAINING  |  |  |  |  |  |   |
| <br><b>Early Learning</b>   | Principles of Human Services             | Principles of Education and Training                             | Child Development  | Child Guidance Internship<br>(2 Blocks)  | Practicum of Early Learning<br>(2 Blocks)<br>OR<br>Career Prep   | <b>Preschool Teacher</b><br><b>Childcare Worker</b><br><b>Special Education Teacher</b> |
| <br><b>Teaching and Training</b>   | Principles of Human Services             | Principles of Education and Training                             | Child Development  | Instructional Practices*<br>(2 Blocks)<br>OR<br>Instructional Practices Dual Credit*<br>(2 Blocks) | Practicum in Education and Training*<br>(2 Blocks)<br>OR<br>Practicum in Education and Training Dual Credit*<br>(2 Blocks) | <b>Elementary Teacher</b><br><b>Secondary Teacher</b><br><b>School Administrator</b>    |

| Program  | 8th Grade                           | 9th Grade  | 10th Grade  | 11th Grade  | 12th Grade  | Careers   |
|--|-------------------------------------|--|---|---|---|---|
| CLUSTER: HEALTH SCIENCE  |                                     |  |   |   |   |   |
| <br>Healthcare Therapeutic & Diagnostics         | <i>Principles of Human Services</i> | Principles of Health Science                               | Medical Terminology   | Health Science Theory & Clinical* (2 Blocks)<br><br>Anatomy & Physiology (recommended)  | Medical Assisting* (2 Blocks)   | Nurse<br><br>Pharmacist<br><br>Doctor<br><br>Lab Assistant<br><br>Medical Laboratory Scientist<br><br>EMT |
|  |                                     |  |   |   | Patient Care Technician* (2 Blocks)   |   |
|  |                                     |  |   |   | Pharmacy* (2 Blocks)  |   |
|  |                                     |  |   |   | EMT (Dual Credit)* (2 Blocks)   |   |
| <br>Exercise Science, Wellness, and Restoration | <i>Principles of Human Services</i> | Principles of Health Science OR Entrepreneurship I         | Kinesiology I   | Kinesiology II (coming 2026-2027 School Year)<br><br>Anatomy & Physiology (recommended) | Career Prep   | Coach<br><br>Trainer<br><br>Physical Therapist  |
| CLUSTER: LAW & PUBLIC SERVICE  |                                     |  |   |   |   |   |
| <br>Fire Science                                 | <i>Principles of Human Services</i> | Principles of Law, Public Safety, Corrections and Security | <i>J.R.O.T.C. 1</i>   | Firefighter I* AND Dual Credit Anatomy and Physiology* (2 Blocks)                       | Firefighter II* AND EMT Basic* (2 Blocks)   | Firefighter<br><br>Emergency Management Specialist  |
| <br>Law Enforcement                              | <i>Principles of Human Services</i> | Principles of Law, Public Safety, Corrections and Security | <i>J.R.O.T.C. 1</i>   | Law Enforcement I & II* (2 Blocks) AND<br>Forensic Psychology (Optional)                | Criminal Investigation AND Forensic Science* (2 Blocks) OR<br>Practicum in Law, Public Safety, Corrections & Security* (2 Blocks) | Law Enforcement Officer<br><br>Crime Scene Investigator   |
| <br>Legal Studies                             | <i>Principles of Human Services</i> | Principles of Law, Public Safety, Corrections and Security | <i>J.R.O.T.C. 1</i>   | Court Systems and Practices AND<br>Advanced Legal Skills and Professions* (2 Blocks)    | Practicum in Law, Public Safety, Corrections & Security* (2 Blocks)   | Lawyer<br><br>Paralegal<br><br>Mediator   |
| CLUSTER: HUMAN SERVICES  |                                     |  |   |   |   |   |
| <br>Cosmetology                                | <i>Principles of Human Services</i> | Entrepreneurship I   | Principles of Cosmetology* AND<br>Introduction to Cosmetology* (2 Blocks) | Cosmetology I* AND<br>Nail Care, Enhancements, and Spa Services* (4 Blocks)             | Cosmetology II* AND<br>Practicum in Cosmetology* (4 Blocks) OR<br>Career Prep   | Cosmetologist<br><br>Nail Tech<br><br>Make-Up Artist  |
| <br>Family and Community Services             | Principles of Human Services        | Professional Communications AND Interpersonal Studies      | Child Development   | Family and Community Services   | Career Prep OR<br>Practicum in Entrepreneurship   | Social Worker<br><br>Counselor  |
| ENDORSEMENT: STEM  |                                     |  |   |   |   |   |
| CLUSTER: ENGINEERING   |                                     |  |   |   |   |   |
| <br>Electrical Engineering                     | Principles of Applied Engineering   | Introduction to Engineering Design                         | AC/DC Electronics   | Practicum in STEM I - Engineering* (2 Blocks)   | Practicum in STEM II - Engineering* (2 Blocks) OR<br>Career Prep  | Electrical Engineer<br>Industrial Technologist<br>Aerospace Engineer                                      |

\* course offered at LaGrone Academy

\*\* course offered at US Aviation

\*\*\* course only available to Guyer High

School students

\*\*\*\* course offered at Denton High School,

available to all students

*Italicized courses are not part of the program of study.*

Denton ISD offers career and technical education programs in 40 different Programs of Study. Admission to these programs is based on student requests and course completion of prerequisite as indicated in the course catalogue.

It is the policy of Denton 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 the 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 Denton 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.

Denton 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.