

Denton ISD Career and Technical Education Recommended Sequences

Denton Independent School District offers all sixteen Federal Career Clusters which fall into the five endorsements areas for graduation. With so many options students must plan carefully to enhance their skill portfolio. In addition to the state graduation core requirements students are encouraged to select an endorsement to support their career goal. It is vital to understand that many opportunities are available through Career and Technical Education (CTE); they provide an "added value" beyond the high school diploma. For instance, currently there are options in CTE for students to earn college credits free of charge with the statewide articulation process. Industry credentials such as earning certification and licensures will increase employability skills. In order to receive the optimum skill development a student would follow the four year programs of study listed below. However, realistically this may be impossible and the student may need to start at an advanced level. Some classes have prerequisites in order to advance to the next level. However, students need to take classes that complement their career goal. Since computer skills are essential for both "College and Career Readiness" we recommend that all students take Business Information Management I (BIM). For more information contact your career counselor.

Denton ISD Career Counselors

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9th Grade	10th Grade	11th Grade	12th Grade
Business and Industry Endorsement/Major			
Agriculture, Food, and Natural Resources			
Agriculture Mechanical Systems			
Professional Communications (9-12) (.5)	Principles of Agriculture, Food & Natural Resources (9-12) (1) and Agricultural Mechanics & Metal Technologies (10-12)(1)	Agricultural Structures Design and Fabrication (11-12) (1) (Advanced)	Welding 1 (11-12) (2) (Advanced)
Animal Science			
Professional Communications (9-12) (.5)	Principles of Agriculture, Food & Natural Resources (9-12) (1) and Small Animal Management(10-12) (.5)/Equine Science (10-12) (.5)	Livestock Production (10-12) (1) or Wildlife Fisheries & Ecology Management (10-12) 1	Advanced Animal Science (11-12) (1) (Fourth Science Credit) (Advanced) and Veterinary Medical Applications (11-12) (1) (Advanced)
Architecture and Construction			
Interior Design			
Professional Communications (9-12) (.5)	Architectural Design 1 (10-12) (1) and Floral Design (10-12)(1) (Fine Arts Credit)	Interior Design I (10-12) (1)	Interior Design II (11-12) (2) (Advanced)
Architectural Design			
Professional Communications (9-12) (.5)	Architectural Design 1 (10-12) (1)	Architectural Design II (11-12) (2) (Advanced)	Practicum in Architectural Design (12) (2) (Advanced)
Construction Management (RHS Only)			
Professional Communications (9-12) (.5)	Architectural Design 1 (10-12) (1) and Principles of Construction (9-12) (1)	Construction Management 1 (11-12) (1)	Construction Management II (12) (1) (Advanced)
Heating Ventilation & Air Conditioning HVAC (Located at RHS)			
Professional Communications (9-12) (.5)	Architectural Design I (10-12) (1)	Heating Ventilation & Air Conditioning I (11-12) (1) / Electrical Technology I (11-12) (1) (Advanced) Dual Credit	Heating Ventilation & Air Conditioning II (12) (2) (Advanced) Dual Credit
Arts, A/V Technology and Communication			
Media Technology			
Professional Communications (9-12) (.5)	Principles of Arts, Audio/Video Tech & Communications (9-12) (1)	Audio/Video Production I & Lab (11-12) (2) (Advanced)	Audio/Video Production II & Lab (12) (2) (Advanced)
Animation			
Professional Communications (9-12) (.5)	Principles of Arts, Audio/Video Tech & Communications (9-12) (1)	Animation I & Lab (11-12) (2) (Advanced)	Animation II & Lab (12) (2) (Advanced)
Graphic Design			
Professional Communications (9-12) (.5)	Principles of Arts, Audio/Video Tech & Communications (9-12) (1)	Graphic Design and Illustration I & Lab (11-12) (2) (Advanced)	Graphic Design & Illustration II & Lab (12) (2) (Advanced)
Commercial Photography			
Professional Communications (9-12) (.5)	Principles of Arts, Audio/Video Tech & Communications (9-12) (1)	Commercial Photography I & Lab (11-12) (2) (Advanced)	Commercial Photography II & Lab (12) (2) (Advanced)
Fashion Design			
Professional Communications (9-12) (.5)	Business Information Management I (9-12) (1) and Principles of Arts, Audio/Video Tech & Communications (9-12) (1)	Fashion Design I (10-12) (1)	Fashion Design II (11-12) (1) (Advanced)

Business and Industry Endorsement/Major

Business Management and Administration, Marketing, Finance

Data Management			
Professional Communications (9-12) (.5)	Principles of Business, Marketing & Finance (9-12) (1) and Business Information Management I (9-12) (1)	Business Information Management II (10-12) (1) (Advanced)	Business Law(11-12) (1) (Advanced)
Business Management			
Professional Communications (9-12) (.5)	Principles of Business, Marketing & Finance (9-12) (1) and Business Information Management I (9-12) (1)	Human Resources Management (11-12) (.5) / Global Business (11-12) (.5)	Business Management (10-12) (1) (Advanced)
Business Ownership			
Professional Communications (9-12) (.5)	Principles of Business, Marketing & Finance (9-12) (1) and Business Information Management I (9-12) (1)	Human Resources Management (11-12) (.5) /Global Business (11-12) (.5) and/or Business Law (11-12) (1) (Advanced)	Entrepreneurship (10-12) (1) (Advanced)
Banking and Finance			
Professional Communications (9-12) (.5)	Principles of Business, Marketing & Finance (9-12) (1) and Securities & Investments (10-12) (1)	Accounting I (10-12) (1)	Accounting II (11-12) (1) (Advanced) (4th Math Credit)
Advertising and Sales			
Professional Communications (9-12) (.5)	Business Information Management I (9-12) (1) and Principles of Business, Marketing & Finance (9-12) (1)	Advertising (10-12) (.5) /Sports and Entertainment Marketing (10-12) (.5)	Entrepreneurship (10-12) (1) (Advanced)

Hospitality and Tourism

Hospitality Management			
Professional Communications (9-12) (.5)	Introduction to Culinary Arts (10-12) (1)	Hospitality Services (11-12) (2) (Advanced)	Practicum in Hospitality Services (12) (2) (Advanced)
Culinary Arts			
Professional Communications (9-12) (.5)	Introduction to Culinary Arts (10-12) (1)	Culinary Arts (11-12) (2) (Advanced)	Advanced Culinary Arts (12) (2) (Advanced)
Restaurant Management			
Professional Communications (9-12) (.5)	Introduction to Culinary Arts (10-12) (1)	Culinary Arts (11-12) (2) (Advanced)	Practicum in Culinary Arts I (11-12) (3) (Advanced)

Information Technology

Computer Maintenance			
Professional Communications (9-12) (.5)	Digital Electronics (10-12) (1) or Business Information Management I (9-12) (1)	Computer Maintenance & Lab (11-12) (2) (Advanced)	Computer Technician Practicum (12) (2) (Advanced)
Cisco Internetworking			
Professional Communications (9-12) (.5)	Digital Electronics (10-12) (1) or Business Information Management I (9-12) (1)	Cisco Internetworking Technologies I (11-12) (1) /Cisco Internetworking Technologies II (11-12) (1)	Computer Maintenance & Lab (11-12) (2) (Advanced)

Manufacturing

Aerospace Manufacturing			
Professional Communications (9-12) (.5)	Principles of Manufacturing (9-12) (1) or Agricultural Mechanics & Metal Technologies (10-12) (1)	Precision Metal Manufacturing I (11-12) (2) (Advanced)	Precision Metal Manufacturing II (12) (2) (Advanced)
Welding			
Professional Communications (9-12) (.5)	Agricultural Mechanics & Metal Technologies (10-12) (1)	Welding 1 (11-12) (2) (Advanced)	Welding II (12) (2) (Advanced)

Transportation, Distribution, and Logistics

Automotive Technology			
Professional Communications (9-12) (.5)	Digital Electronics (10-12) (1) or Agricultural Mechanics & Metal Technologies (10-12) (1)	Automotive Technology I: MLR (11-12) (2) (Advanced)	Automotive Technology II: Auto Service (12) (2) (Advanced)
Aircraft Technology			
Professional Communications (9-12) (.5)	Digital Electronics (10-12) (1) or Agricultural Mechanics & Metal Technologies (10-12) (1)	Automotive Technology I: MLR (11-12) (2) (Advanced) or AC/DC Electronics (11-12) (1) (Advanced) / Solid State Electronics (11-12) (1)	Aircraft Airframe Technology (11-12) (2) (Advanced)

Public Service Endorsement / Major

Education and Training

Education

Professional Communications (9-12) (.5)	Principles of Education and Training (9-12) (1) or Human Growth & Development (10-12) (1)	Instructional Practices (11-12) (2) (Advanced)	Practicum in Education & Training (12) (2) (Advanced)
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Health Science

Advanced Clinical Specialization

Professional Communications (9-12) (.5)	Principles of Health Science (10-12) (1)	Health Science Theory & Clinical (11-12) (2) (Advanced)	Practicum in Health Science (12) (2) Job Shadow Internship (Advanced)
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Allied Health

Professional Communications (9-12) (.5)	Principles of Health Science (10-12) (1)	Health Science Theory & Clinical (11-12) (2) (Advanced)	Allied Health Pathophysiology (11-12) (1) (Advanced) / Allied Health Anatomy & Physiology (11-12) (1) Science Credit (Advanced)
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Pharmacology

Professional Communications (9-12) (.5)	Principles of Health Science (10-12) (1)	Health Science Theory & Clinical (11-12) (2) (Advanced)	Practicum in Health Science (12) (2) Pharmacology (Advanced)
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Certified Nursing Assistant

Professional Communications (9-12) (.5)	Principles of Health Science (10-12) (1)	Health Science Theory & Clinical (11-12) (2) (Advanced)	Practicum in Health Science (12) (2) Certified Nursing Assistant (Advanced)
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Emergency Medical Technician

Professional Communications (9-12) (.5)	Principles of Health Science (10-12) (1)	Health Science Theory & Clinical (11-12) (2) (Advanced)	Practicum in Health Science (12) (2) EMT (Advanced) (Dual Credit)
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Human Services

Child Care Management

Professional Communications (9-12) (.5)	Principles of Human Services (9-12) (1) and Interpersonal Studies (10-12) (.5) / Dollars & Sense (10-12) (.5)	Child Development (10-12) (1)	Child Guidance Internship (11-12) (2) (Advanced)
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Counseling and Mental Health

Professional Communications (9-12) (.5)	Principles of Human Services (9-12) (1) and Business Information Management I (9-12) (1)	Human Growth & Development (10-12) (1)	Counseling and Mental Health (11-12) (1) (Advanced)
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Cosmetology

Professional Communications (9-12) (.5)	Principles of Cosmetology Design & Color Theory / Introduction to Cosmetology (10-12) (2)	Cosmetology I / Practicum in HS - Cosmetology (11-12) (4) (Advanced)	Cosmetology II / Practicum in HS - Cosmetology (12) (4) (Advanced)
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Law, Public Safety, Corrections and Security

Pre Law

Professional Communications (9-12) (.5)	Principles of Law, Public Safety, Corrections and Security (9-12) (1)	Court Systems & Practices (11-12) (1) (Advanced) / Political Science (11-12) (1) (Advanced)	Pre-Law Practicum (12) (2) (Advanced)
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Criminal Investigation

Professional Communications (9-12) (.5)	Principles of Law, Public Safety, Corrections and Security (9-12) (1)	Law Enforcement I (11-12) (1) (Advanced) / Law Enforcement II (11-12) (1) (Advanced)	Forensic Science (11-12) (1) (Fourth Science) (Advanced) and Criminal Investigation (11-12) (1) (Advanced)
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Law Enforcement

Professional Communications (9-12) (.5)	Principles of Law, Public Safety, Corrections and Security (9-12) (1)	Law Enforcement I (11-12) (1) (Advanced) / Law Enforcement II (11-12) (1) (Advanced)	Practicum in Public Safety, Corrections & Security (12) (2) (Advanced)
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National Security and Foreign Services

Professional Communications (9-12) (.5)	Principles of Law, Public Safety, Corrections and Security (9-12) (1)	Law Enforcement I (11-12) (1) (Advanced) / Law Enforcement II (11-12) (1) (Advanced) or Court Systems & Practices (11-12) (1) (Advanced) / or Political Science (11-12) (1) (Advanced)	Disaster Response (11-12) (1) (Advanced) / National Security (11-12) (1) (Advanced)
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Fire Fighter

Professional Communications (9-12) (.5)	Principles of Law, Public Safety, Corrections and Security (9-12) (1)	Fire Fighter I (11) (2) (Advanced)	Fire Fighter II (12) (3) (Advanced)
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STEM: Science, Technology, Engineering, and Mathematics Endorsement / Major

Electronics			
Professional Communications (9-12) (.5)	Digital Electronics (10-12) (1) or Business Information Management I (9-12) (1)	AC/DC Electronics (11-12) (1) (Advanced) / Solid State Electronics (11-12) (1) (Advanced)	Practicum in STEM - Electronics (12) (2) (Advanced)
Advanced Engineering -Project Lead the Way			
Professional Communications (9-12) (.5) and Introduction to Engineering Design (9-12) (1)	Digital Electronics (10-12) (1)	Engineering Science (11-12) (1) (Science Credit) (Advanced) Plus one of the following: Civil Engineering & Architecture or Robotics I or Aerospace Engineering I or Computer Integrated Manufacturing	Engineering Design Problem Solving (12) (1) (Advanced) (Science Credit) Plus one of the following: Civil Engineering & Architecture or Robotics I or Aerospace Engineering I or Computer Integrated Manufacturing
Advanced Engineering -Project Lead the Way - DHS Only			
Professional Communications (9-12) (.5)	Digital Electronics (10-12) (1) and Introduction to Engineering Design (9-12) (1)	Engineering Science (11-12) (1) (Science Credit) (Advanced) Plus one of the following: Civil Engineering & Architecture or Robotics I or Aerospace Engineering I or Computer Integrated Manufacturing	Engineering Design Problem Solving (12) (1) (Advanced) Plus one of the following: Civil Engineering & Architecture or Robotics I or Aerospace Engineering I or Computer Integrated Manufacturing

Denton ISD Academic Endorsement Coherent Sequences Business and Industry Academic Endorsement/Major

Journalism, Newspaper and Yearbook			
Professional Communications (9-12) (.5)	Advanced Journalism 1	Advanced Journalism 2 - Newspaper	Advanced Journalism 3 - Newspaper
Professional Communications (9-12) (.5)	Advanced Journalism 1	Advanced Journalism 2 - Yearbook	Advanced Journalism 3 - Yearbook
Professional Communications (9-12) (.5)	Debate 1	Debate 2	Debate 3

Public Service Endorsement/Major

AFROTC			
JROTC 1	JROTC 2	JROTC 3	JROTC 4

STEM: Science, Technology, Engineering and Math

Math Sequence - Regular, Pre AP, AP or IB			
Algebra 1	Geometry	Algebra 2	2 Additional Math Courses
Additional Math Courses: Pre-Calculus, Advanced Quantitative Reasoning, AP Statistics, AP Calculus AB or BC, AP Computer Science, Accounting II			
Science Sequence - Regular, Pre AP, AP or IB			
Biology	Chemistry	Physics	2 Additional Science Courses
Science Choices: Anatomy and Physiology, Aquatic Scientific, Environmental Systems, Scientific Research & Design, Food Science, Forensic Science, Advanced Animal Science, Allied Health Pathophysiology, Allied Health Anatomy & Physiology, Engineering Science, Engineering Design Problem Solving			

Arts and Humanities Endorsement/Major

Social Studies			
World Geography or AP Human Geography	World History	US History	Government/Economics
Additional Social Studies Courses: AP European History (11-12), Sociology (.5) (11-12), Psychology (.5)/AP Psychology (.5) (11-12), Personal Financial Literacy (.5)			
World Language			
French 1	French 2/Pre AP French 2	Pre AP French 3	AP French 4
German 1	German 2/Pre AP German 2	Pre AP German 3	AP German 4
Latin 1	Latin 2/Pre AP Latin 2	Pre AP Latin 3	AP Latin 4
American Sign Language 1	American Sign Language 2	American Sign Language 3	American Sign Language 4
Spanish 1/Pre AP Spanish 1	Spanish 2/Pre AP Spanish 2	Spanish 3/Pre AP Spanish 3	AP Spanish 4/AP Spanish 5
Fine Arts			
Art 1	Art 2 - Drawing, Painting, Ceramics, Sculpture	Art 3 - Drawing, Painting, Ceramics, Sculpture	Art 4 - Drawing, Painting, Ceramics, Sculpture
Dance 1	Dance 2	Dance 3	Dance 4
Music 1 - Band, Choir, Orchestra	Music 2 - Band, Choir, Orchestra	Music 3 - Band, Choir, Orchestra	Music 4 - Band, Choir, Orchestra
Theatre 1: Theatre Arts, Theatre Production, Technical Theatre	Theatre 2: Theatre Arts, Theatre Production, Technical Theatre	Theatre 3: Theatre Arts, Theatre Production, Technical Theatre	Theatre 4: Theatre Arts, Theatre Production, Technical Theatre

NON-DISCRIMINATION POLICY: The Denton Independent School District does not discriminate on the basis of race, color, national origin, sex, disability or age in any of its career and technical education programs, services or activities, in accordance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended. For inquiries regarding non-discrimination policies under Title VI, Title IX and Section 504, contact Dr. Richard Valenta, deputy superintendent, via email at rvalenta@dentonisd.org or by phone at 940-369-0040. Dr. Valenta can also be reached at Denton ISD's central offices, 1307 N. Locust St. in Denton