

Denton ISD Career and Technical Education Recommended Sequences

Denton Independent School District offers all sixteen Federal Career Clusters for our students' career planning. With so many options students must plan carefully to enhance their skill portfolio. In addition to the state graduation requirements students are encouraged to select a career cluster and program of study. 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 will need to start at an advanced level. Most classes have no prerequisites so students can enter the pathway at any time. 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 Facilities Design and Fabrication (11-12) (1)	Welding (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) and Equine Science (10-12) (.5)	Livestock Production (11-12) (1)	Advanced Animal Science (11-12) (1) (Fourth Science Credit) (Advanced) and Veterinary Medical Applications (2) (12) (Advanced)
Architecture and Construction			
Interior Design			
Professional Communications (9-12) (.5)	Principles & Elements of Floral Design (9-12)(1) (Fine Arts Credit) and Principles of Architecture & Construction (9-12) (1)	Interior Design (10-12) (1)	Advanced Interior Design (11-12) (1) (Advanced)
Architectural Design			
Professional Communications (9-12) (.5)	Principles of Architecture & Construction (9-12) (1)	Advanced Architectural Design (11-12) (2) (Advanced)	Practicum Architectural Design (12) (2) (Advanced)
Construction Management			
Professional Communications (9-12) (.5)	Principles of Architecture & Construction (9-12) (1)	Construction Technology (10-12) (1)	Advanced Construction Technology (12) (2) (Advanced)
Arts, A/V Technology and Communication			
Media Technology			
Professional Communications (9-12) (.5)	Digital & Interactive Media (10-12) (1)	Audio / Video Production (11-12) (2) (Advanced)	Advanced Audio / Video Production(12) (2) (Advanced)
Animation			
Professional Communications (9-12) (.5)	Digital & Interactive Media (10-12) (1)	Animation (11-12) (2) (Advanced)	Advanced Animation (12) (2) (Advanced)
Graphic Design			
Professional Communications (9-12) (.5)	Digital & Interactive Media (10-12) (1)	Graphic Design and Illustration (11-12) (2) (Advanced)	Advanced Graphic Design & Illustration (12) (2) (Advanced)
Commercial Photography			
Professional Communications (9-12) (.5)	Digital & Interactive Media (10-12) (1)	Commercial Photography (11-12) (2) (Advanced)	Advanced Commercial Photography (12) (2) (Advanced)
Fashion Design			
Professional Communications (9-12) (.5)	Business Information Management I (9-12) (1) and Digital & Interactive Media (10-12) (1)	Fashion Design (11-12) (1)	Problems and Solutions in Advanced Fashion Design (12) (1) (Advanced)

Business and Industry Endorsement/Major

Business Management and Administration

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 (.5) (11-12) / Global Business (.5) (11-12) (Advanced) or Human Resources Management (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)	Business Management (10-12) (1)	Human Resources Management (11-12) (1) and/or Business Law (11-12) (.5) / Global Business (11-12) (.5) (Advanced)

Business Ownership			
Professional Communications (9-12) (.5)	Principles of Business, Marketing & Finance (9-12) (1) and Business Information Management I (9-12) (1)	Entrepreneurship (10-12) (1) (Advanced)	Human Resources Management (11-12) (1) and/or Business Law (11-12) (.5) / Global Business (11-12) (.5) (Advanced)

Finance

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)

Personal Finance			
Professional Communications (9-12) (.5)	Principles of Business, Marketing & Finance (9-12) (1) and Securities & Investments (10-12) (1)	Business Information Management I (9-12) (1) or Business Law (11-12) (.5) / Dollars and Sense (10-12) (5)	Business Information Management II (9-12) (1) (Advanced)

Hospitality and Tourism

Hospitality Management			
Professional Communications (9-12) (.5)	Food and Nutrition (10-12) (1)	Hospitality Services (11-12) (2) (Advanced)	Practicum in Hospitality Services (12) (2) (Advanced)

Culinary Arts			
Professional Communications (9-12) (.5)	Food and Nutrition (10-12) (1)	Culinary Arts (11-12) (2) (Advanced)	Practicum in Culinary Arts (12) (2) or Restaurant Management (Advanced)

Information Technology

Computer Maintenance			
Professional Communications (9-12) (.5)	Electronics (10-12) (1)	Computer Maintenance (11-12) (2) (Advanced)	Computer Technician (12) (2) (Advanced)

Cisco Internetworking			
Professional Communications (9-12) (.5)	Electronics (10-12) (1)	Computer Maintenance (11-12) (2) (Advanced)	Cisco Internetworking Technologies I (11-12) (1) /Cisco Internetworking Technologies II (11-12) (1) (Advanced)

Manufacturing

Aerospace Manufacturing			
Professional Communications (9-12) (.5)	Principles of Manufacturing(9-12) (1)	Precision Metal Manufacturing (11-12) (2) (Advanced)	Advanced Precision Metal Manufacturing (12) (2) (Advanced)

Welding			
Professional Communications (9-12) (.5)	Agricultural Mechanics & Metal Technologies (10-12) (1)	Welding (11-12) (2) (Advanced)	Advanced Welding (12) (2) (Advanced)

Marketing

Marketing			
Professional Communications (9-12) (.5)	Principles of Business, Marketing & Finance (9-12) (1)	Marketing Dynamics (11-12) (3)	Marketing Dynamics II (Practicum)(12) (3)

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 & Sales Promotion (10-12) (.5) /Sports and Entertainment Marketing (10-12) (.5)	Entrepreneurship (10-12) (1) (Advanced)

Transportation, Distribution, and Logistics

Automotive Technology			
Professional Communications (9-12) (.5)	Electronics (10-12) (1)	Automotive Technology (11-12) (2) (Advanced)	Advanced Automotive Technology (12) (2) (Advanced)

Aviation Technology			
Professional Communications (9-12) (.5)	Electronics (10-12) (1)	Aircraft Technology (11-12) (2) (Advanced)	Advanced Aircraft Technology (12) (2) (Advanced)

Public Service Endorsement / Major

Education and Training

Education

Professional Communications (9-12) (.5)	Principles of Education and Training (9-12) (.5) and/or Child Development (10-12) (1) and/or Human Growth and Development (10-12) (1)	Instructional Practice in Education & Training (11-12) (2) (Advanced)	Practicum in Education & Training (12) (2) (Advanced)
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Government and Public Administration

National Security and Foreign Services

Professional Communications (9-12) (.5)	Principles of Law, Public Safety, Corrections and Security (9-12) (1)	National Security (11-12) (2) (Advanced)	Practicum in Local, State, and National Government 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 (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 (11-12) (2) (Advanced)	Allied Health Anatomy and Physiology (12) (1) (Fourth Science Credit) and Allied Health Problems & Solutions (12) (1) (Advanced)
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Pharmacology

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

Child Care Management

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

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

Professional Communications (9-12) (.5)	Business Information Management I (9-12) (1)	Cosmetology I (11) (3) and Introduction to Cosmetology (11) (1) (Advanced)	Cosmetology II (12) (3) and Problems and Solutions Cosmetology II (12) (1) (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) (2) (Advanced)	Practicum in Law, Public Safety, Corrections & Security (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) (2) (Advanced)	Forensic Science (11-12) (1) (Fourth Science) (Advanced) and Disaster Response (11-12) (1)
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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) (2) (Advanced)	Law Enforcement II (12) (2) (Advanced)
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STEM: Science, Technology, Engineering, and Mathematics Endorsement / Major

Electronics

Professional Communications (9-12) (.5)	Electronics (10-12) (1)	Advanced Electronics (11-12) (2) (Advanced)	Practicum in STEM - Electronics (12) (2) (Advanced)
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Advanced Engineering -Project Lead the Way

Professional Communications (9-12) (.5)	Introduction to Engineering Design (10-12)(1) (Fall) /Computer Integrated Manufacturing (10-12)(1) (Spring)	Principles of Engineering (11-12) (1) (Fall) and Digital Electronics (11-12) (1) (Spring) (Advanced)	Engineering Scientific Research and Design (12) (1) (Fall) (Fourth Science) and Engineering Design and Development (12) (1)(Spring) (Advanced)
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Denton ISD Academic Endorsement Coherent Sequences

9th Grade	10 Grade	11th Grade	12th Grade
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Business and Industry Academic Endorsement/Major

Journalism, Newspaper and Yearbook			
Professional Communications (9-12) (.5)/High School 101	Advanced Journalism 1 and Digital and Interactive Media (10-12)	Advanced Journalism 2 - Newspaper	Advanced Journalism 3 - Newspaper
Professional Communications (9-12) (.5)/High School 101	Advanced Journalism 1 and Digital and Interactive Media (10-12)	Advanced Journalism 2 - Yearbook	Advanced Journalism 3 - Yearbook
Professional Communications (9-12) (.5)/High School 101	Debate 1	Debate 2 and Public Speaking	Debate 3

Public Service Endorsement/Major

ROTC			
JROTC 1	JROTC 2	JROTC 3	JROTC 4

STEM: Science, Technology, Engineering and Math Endorsement/Major

Math Sequence - Regular, Pre AP or AP			
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, Engineering Math			
Science Sequence - Regular, Pre AP or AP			
Biology	Chemistry	Physics	2 Additional Science Courses
Science Choices: Anatomy and Physiology, Aquatic Scientific, Environmental Systems, Scientific Research & Design, Food Science, Forensic Science			

Arts and Humanities Endorsement/Major

Social Studies			
World 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)			
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

The Denton Independent School District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquires regarding the non-discrimination policies: ATTN David Hicks, 1307 N Locust St, Denton TX 76201, 940-369-0132