

# 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

Jeanie Bragg, Guyer High School, (940)369-1033, jbragg@dentonisd.org

Angela Clouse, Ryan High School, (940)369-3025, aclouse@dentonisd.org

Kimberly Keith, Denton High School, (940)369-2020, kkeith@dentonisd.org

Susan Reyes, Advanced Technology Complex, (940)369-4838, sreyes@dentonisd.org

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

# 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) <b>(Advanced)</b>	Business Law (1) (11-12) <b>(Advanced)</b>
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### 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) (.5) / Global Business (11-12) (.5) <b>(Advanced)</b>
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### 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) <b>(Advanced)</b>	Human Resources Management (11-12) (1) and/or Business Law (11-12) (.5) / Global Business (11-12) (.5) <b>(Advanced)</b>
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## 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) <b>(Advanced)</b> (4th Math Credit)
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## Hospitality and Tourism

### Hospitality Management

Professional Communications (9-12) (.5)	Introduction to Culinary Arts (10-12) (1)	Hospitality Services (11-12) (2) <b>(Advanced)</b>	Practicum in Hospitality Services (12) (2) <b>(Advanced)</b>
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### Culinary Arts

Professional Communications (9-12) (.5)	Introduction to Culinary Arts (10-12) (1)	Culinary Arts (11-12) (2) <b>(Advanced)</b>	Advanced Culinary Arts (12) (2) or Restaurant Management <b>(Advanced)</b>
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### Restaurant Management

Professional Communications (9-12) (.5)	Introduction to Culinary Arts (10-12) (1)	Restaurant Management Practicum I (11-12) (2) <b>(Advanced)</b>	Restaurant Management Practicum II (11-12) (2) <b>(Advanced)</b>
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## 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) <b>(Advanced)</b>	Computer Technician Practicum (12) (2) <b>(Advanced)</b>
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### 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) <b>(Advanced)</b>	Computer Maintenance & Lab (11-12) (2) <b>(Advanced)</b>
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## 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) <b>(Advanced)</b>	Precision Metal Manufacturing II (12) (2) <b>(Advanced)</b>
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### Welding

Professional Communications (9-12) (.5)	Agricultural Mechanics & Metal Technologies (10-12) (1)	Welding 1 (11-12) (2) <b>(Advanced)</b>	Welding II (12) (2) <b>(Advanced)</b>
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## Marketing

### 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) <b>(Advanced)</b>
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## Transportation, Distribution, and Logistics

### Automotive Technology

Professional Communications (9-12) (.5)	Agricultural Mechanics & Metal Technologies (10-12) (1)	Automotive Technology I:MLR (11-12) (2) <b>(Advanced)</b>	Automotive Technology II: Auto Service (12) (2) <b>(Advanced)</b>
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### Aviation Technology

Professional Communications (9-12) (.5)	Agricultural Mechanics & Metal Technologies (10-12) (1)	Aircraft Airframe Technology (11-12) (2) <b>(Advanced)</b>	Aircraft Power Plant Technology (12) (2) <b>(Advanced)</b>
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# Public Service Endorsement / Major

## Education and Training

Education			
Professional Communications (9-12) (.5)	Principles of Education and Training (9-12) (1)	Instructional Practices (11-12) (2) <b>(Advanced)</b>	Practicum in Education & Training (12) (2) <b>(Advanced)</b>

## Health Science

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

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

Pharmacology			
Professional Communications (9-12) (.5)	Principles of Health Science (10-12) (1)	Health Science Theory & Clinical (11-12) (2) <b>(Advanced)</b>	Practicum in Health Science (12) (2) Pharmacology <b>(Advanced)</b>

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

Emergency Medical Technician			
Professional Communications (9-12) (.5)	Principles of Health Science (10-12) (1)	Health Science Theory & Clinical (11-12) (2) <b>(Advanced)</b>	Practicum in Health Science (2) (12) EMT <b>(Advanced)</b> (Dual Credit)

## Human Services

Child Care Management			
Professional Communications (9-12) (.5)	Principles of Human Services (9-12) (1) and Business Information Management I (9-12) (1)	Child Development (10-12) (1)	Interpersonal Studies (10-12) (.5) / Dollars & Sense (10-12) (1) OR Child Guidance (10-12) (2) RHS <b>(Advanced)</b>

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) <b>(Advanced)</b>

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) <b>(Advanced)</b>	Cosmetology II / Practicum in HS - Cosmetology (12) (4) <b>(Advanced)</b>

## 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) / Political Science (11-12) (1) <b>(Advanced)</b>	Pre-Law Practicum (12) (2) <b>(Advanced)</b>

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

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

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

# STEM: Science, Technology, Engineering, and Mathematics Endorsement / Major

<b>Electronics</b>			
Professional Communications (9-12) (.5)	Digital Electronics (10-12) (1) or Business Information Management I (9-12) (1)	AC/DC (11-12) (1) <b>(Advanced)</b> / Solid State (11-12) (1) <b>(Advanced)</b>	Practicum in STEM - Electronics (12) (2) <b>(Advanced)</b>
<b>Advanced Engineering -Project Lead the Way</b>			
Professional Communications (9-12) (.5) and Introduction to Engineering Design (9-12) (1)	Digital Electronics (10-12) (1)	Robotics I (11-12) (1) <b>(Advanced)</b> / Engineering Science (11-12) (1) (Science Credit) <b>(Advanced)</b>	Engineering Design Problem Solving (12) (1) <b>(Advanced)</b> Science Credit / Engineering Design & Presentation 1 (12) (1) <b>(Advanced)</b>
<b>Advanced Engineering -Project Lead the Way - DHS Only</b>			
Professional Communications (9-12) (.5)	Digital Electronics (10-12) (1) and Introduction to Engineering Design (9-12) (1)	Robotics I (11-12) (1) <b>(Advanced)</b> / Engineering Science (11-12) (1) (Science Credit) <b>(Advanced)</b>	Engineering Design Problem Solving (12) (1) <b>(Advanced)</b> Science Credit / Engineering Design & Presentation 1 (12) (1) <b>(Advanced)</b>

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

<b>Journalism, Newspaper and Yearbook</b>			
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

<b>AFROTC</b>			
JROTC 1	JROTC 2	JROTC 3	JROTC 4

## STEM: Science, Technology, Engineering and Math

<b>Math Sequence - Regular, Pre AP, AP or IB</b>			
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			
<b>Science Sequence - Regular, Pre AP, AP or IB</b>			
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

<b>Social Studies</b>			
World Geography or AP Human Geography	World History	US History	Government/Economics (1 additional Social Studies Credit)
Additional Social Studies Courses: AP European History (11-12), Sociology (.5) (11-12), Psychology (.5)/AP Psychology (.5) (11-12)			
<b>World Language</b>			
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
<b>Fine Arts</b>			
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](mailto: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