



2020-2021

**EDUCATIONAL PLANNING
FOR LIFE**

Catalog of High School Courses

Endorsement Areas of Study

Arts and Humanities

Business and Industry

Public Services

**STEM (Science, Technology,
Engineering and Mathematics)**

Multidisciplinary Studies





BIRDVILLE INDEPENDENT SCHOOL DISTRICT

6125 East Belknap Street ♦ Haltom City, Texas 76117
817-547-5700 ♦ www.birdvilleschools.net

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Students and Parents,

Planning a four-year high school program is a serious undertaking. Although many of your courses will be determined by the graduation requirements, you will still have many other choices to make during your years of school. The courses you select should be guided largely by your plans for the future. Will you continue your education in college or in a technical college? Do you want to join the military? Do you want to learn a career skill in order to enter the full-time work force immediately after school? Are you thinking of entering a profession that requires many years of specialized education? The answers to these questions are extremely important for making decisions about your course selections for high school. Those answers should also be guided by your interests and abilities.

Birdville ISD offers you many ways to prepare for a productive adult life. The district's high schools provide a wide range of programs that prepare students for post-high school experiences: college, technical school, military service, full-time employment and other areas. Outlined in the following pages are not only the graduation requirements for each program, but also samples of graduation plans to determine which classes you can take for a variety of career plans. The Endorsement Area of Study section of this guide explains future career options in terms of interest areas and suggests courses and activities that will help you arrive at your goal in life. After the Endorsement Area of Study section, all BISD courses are listed and described, with information about prerequisites and grade level placement. The appendix contains information on how to prepare for your life after graduation, no matter what path you choose. By planning wisely and following through on preparation, you can create a future in which you will be successful.

The information presented in this guide is specific to your graduation year and you should refer to it over the next four years. It is important to keep this material for future reference. Be aware that this material is published early in the preceding school year and some changes in procedure, policy or course offerings may have occurred. To view the latest information please visit www.birdvilleschools.net.

Upon request, specific sections of this publication can be made available in multiple languages by contacting Michelle DoPorto in the Birdville ISD Communications office via email at michelle.doport@ems-isd.net.



MISSION:

The mission of Birdville ISD is to ensure that all students position themselves to excel with integrity in an ever-changing global society through innovative and responsive learning environments.

STRATEGIC OBJECTIVES:

- All students will realize their full potential and apply themselves to academic excellence without self-imposed limitations.
- All students will own their learning and aspire to achieve high academic goals.
- All students will demonstrate personal responsibility and integrity reflective of noble character.
- All students will be fully equipped and motivated to contribute to the greater good by unleashing their unique talents and gifts.

BELIEFS:

- Human beings are complex with unique intellectual, social, emotional, and physical needs.
- Every person is unique by design, with abilities, gifts and talents.
- Every person has inherent value and unique potential.
- All people are innately curious.
- Relationships are an inherent human need.
- Personal responsibility is essential and noble for all.
- Family profoundly impacts who we become.
- Character is developed through life experiences.
- With a privilege comes responsibility and accountability.
- A physically and emotionally safe environment encourages learning.
- Learning is not limited by time or space.
- Freedom is a universal desire to be promoted and preserved.
- Values drive choices.
- Change is constant.

ASSURANCE OF NONDISCRIMINATION

Birdville Independent School District offers support to school district for career and technical education programs in Agricultural Food and Natural Resources / Architecture and Construction / Transportation, Distribution and Logistics / Arts, Audio Visual Technology and Communications / Hospitality and Tourism / Business Management and Administration / Finance / Marketing / Information Technology / Education and Training / Human Services / Law, Public Safety, Corrections and Security / Government and Public Administration / Health Science / Science, Technology, Engineering and Mathematics. Admission to these programs is based on enrollment in BISD secondary schools.

It is the policy of BISD not to discriminate on the basis of race, color, national origin, sex or handicap in its CTE programs, services or activities 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 BISD 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.

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

For information about your rights or grievance procedures, contact the Title IX Coordinator, Skip Baskerville at 6125 Belknap Street, Haltom City, Texas 76117 or 817-547-5700.

District scolaire indépendant de Birdville ofrece apoyo al distrito escolar para programas de educación técnica y profesional en Alimentos Agrícolas y Recursos Naturales / Arquitectura y Construcción / Transporte, Distribución y Logística / Artes, Audio Visual Tecnología y Comunicaciones / Hostelería y Turismo / Gestión y Administración de Empresas / Finanzas / Marketing / Tecnologías de la Información / Educación y Formación / Servicios Humanos / Derecho, Seguridad Pública, Correcciones y Seguridad / Gobierno y Público Administración / Ciencias de la Salud / Ciencias, Tecnología, Ingeniería y Matemáticas. La admisión a estos programas se basa en la inscripción en escuelas secundarias BISD.

Es norma de BISD no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades de CTE, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Es norma de BISD no discriminar por motivos de raza, color, origen nacional, sexo, impedimento o edad, en sus procedimientos de empleo, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972, la ley de Discriminación por Edad, de 1975, según enmienda, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

BISD tomará las medidas necesarias para asegurar que la falta de habilidad en el uso del inglés no sea un obstáculo para la admisión y participación en todos los programas educativos y CTE.

Para información sobre sus derechos o procedimientos para quejas, comuníquese con el Coordinador del Título IX, Skip Baskerville en 6125 Belknap Street, Haltom City, Texas 76117 or 817-547-5700.



ADMISSIONS

ENROLLMENT

Welcome to Birdville Independent School District. A student enrolling in the district for the first time must be accompanied by primary family members and must provide satisfactory evidence of required immunizations. With online registration, primary family members can complete required registration documents prior to enrolling their child for the 2020-2021 school year. To access online registration, you must have a Family Access login*. If you do not have a Family Access login, please contact your child's campus. It is important to check, and whenever necessary, update the primary e-mail address in Family Access.

** Members of the student's primary family only (as currently identified in the district's student information system and on the student enrollment form on file at the school).*

CLASSIFICATION BY CREDIT

Students are classified according to the number of credits they have earned. Required classification credits are listed below:

SOPHOMORE (10th)	6 credits
JUNIOR (11th)	12 credits
SENIOR (12th)	19 credits

Reclassifications are made only at the beginning of each school year with the exception of a student who attends Shannon High School.

GUIDANCE COUNSELORS

Counselors are divided by the first letter of the students' last names for all grade levels.

Birdville High School 817-547-8000

A-D	Jacqueline Travis
E-He/Spec. Ed.	Terri Ramsey
Hi-M:	Debbie Conaway
N-Sh:	Stephanie Stevenson
Si-Z:	Cindy Larson, Lead Counselor

Registrar:	Janet Adams
Student Assistance Counselor:	Nancy Allen Sara Mellado
Graduation Coach:	Shelby Griffith

Haltom High School 817-547-6000

A-E (10-12):	Teresa Nguyen
F-L (10-12):	Debra Yocum
A-L (9):	Donna Bagley
M-Q (10-12):	Tiphynne Salazar, Lead Counselor
M-Z (9):	Shelly Knight
R-Z (10-12):	Ruth Cooper

Registrar:	Cherri Yanowski
Student Assistance Counselor:	Andrea Breedlove Will Wright
Graduation Coach:	Susan Shaw

Richland High School 817-547-7000

A-C:	Trenia Miller
D-I:	Vanessa Matschulat
J-M:	David Arthurs
N-R:	Christine Spears, Lead Counselor
S-Z:	Brian Teague

Registrar:	Terri Estill
Student Assistance Counselor:	Shelley Marshall Darlene Tate
Graduation Coach:	Kinzie Morgan-Mallott

Shannon High School 817-547-5400

A-Z:	Stephanie Worrell
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Registrar:	Diana Castillo
Student Assistance Counselor:	Ravin McCallum

Collegiate Academy of Birdville 817-547-6551

A-Z:	Jeannie Mata
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Registrar:	Susan French
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PHOTOS

Many photos used in this guide can be found on Birdville ISD's SmugMug page, a link is located on the district's home page. We appreciate BISSD teachers for their photo contributions.

Birdville ISD HB5 Graduation Plan



English (4 credits) <i>English I, II, and III, and an Advanced English course</i>
Math (4 credits) <i>Algebra I, Geometry, Algebra II, and an Advanced Math course required for endorsement</i>
Science (4 credits) <i>Biology (IPC, Chemistry, or Physics) and 2 Advanced Science courses</i>
Social Studies (3 credits) <i>US History, US Gov't/Economics, and World Geography or World History</i>
World Languages(2 credits)
Physical Ed. (1 credit)
Fine Arts (1 credit)
Health (.5 credit)
Professional Communications (Speech) (.5 credit)
Technology (.5 credit)
Endorsement Coursework / Electives (5.5 credits)
26 Credits Total

STEM:

(Science, Technology, Engineering & Mathematics)

- Science
- Technology
- Engineering
- Mathematics

BUSINESS & INDUSTRY:

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, A/V Technology and Communications
- Business, Management and Administration
- Finance
- Hospitality and Tourism (Culinary Arts)
- Information Technology
- Manufacturing
- Marketing, Sales and Service
- Transportation and Logistics (Auto Technology)
- Advanced Broadcast Journalism, Newspaper or Public Speaking

PUBLIC SERVICES:

- Education and Training
- Health Science
- Law, Public Safety, Corrections and Security
- Government and Public Administration
- Human Services
- JROTC

ARTS & HUMANITIES:

- Art
- Dance
- Music
- Theater
- Social Studies
- American Sign Language
- World Languages

MULTIDISCIPLINARY STUDIES:

Allows a student to complete prescribed courses from each of the four foundation subject areas, advanced placement courses from each of the four foundation subject areas or four advanced courses from within one endorsement area or among endorsement areas not in a coherent sequence.

Endorsements

To earn an endorsement a student must successfully complete:

- Courses related to endorsement

Performance Acknowledgement

A student may earn a performance acknowledgement on their diploma for outstanding performance on any of the following:

- Completing at least 12 hours of college academic courses including those taken for dual credit and advanced technical credit.
- Bilingual and Biliteral
- On a college AP or IB exam
- On the PSAT, ACT-PLAN, SAT or ACT
- For earning a nationally or internationally recognized industry certification

Distinguished Level of Achievement (26 credits)

To earn a distinguished level of achievement a student must successfully complete the curriculum requirements for at least one endorsement, including 4 credits in science and 4 credits in mathematics to include Algebra II.

It is the responsibility of each college-bound student to research admission requirements, as each college's requirements may differ.

Birdville ISD Endorsements

STEM Science, Technology, Engineering, & Math	Business & Industry	Public Services	Arts & Humanities	Multidisciplinary Studies
<p>Students may earn a STEM endorsement by selecting and completing the requirements from any of these 4 options:</p> <p>Note: <i>Algebra II, Chemistry, and Physics/Principles of Technology are required for the STEM endorsement regardless of the option the student selects from below.</i></p> <p>Option 1: Engineering Students earn four CTE credits by taking at least two courses in the same cluster that lead to a final course in the STEM cluster. (With at least one advanced course in the sequence)</p> <p>Option 2: Math Students take Algebra I, Geometry, and Algebra II <u>AND</u> two of the following courses for which Algebra II is a prerequisite.</p> <ul style="list-style-type: none"> ● Pre-Calculus ● Pre AP Pre-Calculus ● AP Calculus AB ● AP Calculus BC ● AP Statistics ● AP Computer Science ● Advanced Quantitative Reasoning ● Statistics & Business Decision Making ● Engineering Mathematics <p>Option 3: Science Students take Biology, Chemistry, Physics, <u>AND</u> two of the following courses.</p> <ul style="list-style-type: none"> ● AP Biology ● AP Chemistry ● AP Physics 2 ● AP Physics C ● Aquatic Science ● Advanced Plant & Soil Science ● Principles of Engineering ● Astronomy ● Environmental Systems ● AP Environmental Systems ● Honors Anatomy & Physiology ● Forensic Science ● Medical Microbiology/Pathophysiology ● Food Science ● Advanced Animal Science ● Scientific Research & Design (Rocket Engineering) ● Engineering Design & Problem Solving (Rocket Engineering) <p>Option 4: Combination Students take Algebra II, Chemistry, and Physics, an additional math course, an additional science course, <u>AND</u> three additional credits in the STEM endorsement.</p>	<p>Students may earn a Business & Industry endorsement by selecting and completing the requirements from the following option:</p> <p>Option 1: Students earn four credits by taking at least two courses in the same cluster in one of the following areas:</p> <ul style="list-style-type: none"> ● Agriculture, Food, and Natural Resources ● Architecture and Construction ● Arts, Audio/Video Technology, Communication and Journalism ● Business Management and Administration ● Finance ● Hospitality and Tourism ● Information Technology ● Manufacturing ● Marketing ● Transportation, Distribution, and Logistics <p>With at least one advanced course in the sequence</p>	<p>Students may earn a Public Services endorsement by selecting and completing the requirements from one of the following 2 options:</p> <p>Option 1: Students earn four credits by taking at least two courses in the same career cluster in one of the following areas:</p> <ul style="list-style-type: none"> ● Education and Training ● Health Science ● Human Services ● Law, Public Safety, Corrections & Security <p>With at least one advanced course in the sequence</p> <p>Option 2: Government & Public Administration - JROTC Student takes four JROTC credits</p>	<p>Students may earn an Arts & Humanities endorsement by selecting and completing the requirements from one of the following 4 options:</p> <p>Option 1: Social Studies Students take five Social Studies credits</p> <p>Option 2: Foreign Language Students take four levels of the same foreign language.</p> <p style="text-align: center;">OR</p> <p>Students take two levels of one foreign language <u>AND</u> two levels of a different foreign language (two levels in each of two different foreign languages for 4 credits.)</p> <p>Option 3: Fine Arts Students take four credits in the same fine arts area.</p> <p style="text-align: center;">OR</p> <p>Students take two credits in one fine arts area <u>AND</u> two credits in a different fine arts area (two credits in each of two different fine arts areas for 4 credits).</p> <p>Option 4: English Students take four credits in English</p> <ul style="list-style-type: none"> ● Independent Study ● Literary Genres/Creative Writing ● Debate 	<p>Students may earn a Multidisciplinary Studies endorsement by selecting and completing the requirements from one of the following 2 options:</p> <p>Option 1: Four by Four (4 x 4) Students take four credits in each of the four core content areas.</p> <ul style="list-style-type: none"> ● Four English credits including English IV ● Four Math credits ● Four Science credits including Biology, Chemistry and/or Physics ● Four Social Studies credits <p>Option 2: Advanced Courses Students take four advanced credits that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence.</p>
<p>To meet <i>BISD graduation requirements</i>, a student <i>must</i> complete:</p> <p>English (4 credits) <i>English I, II, and III, and an Advanced English course</i></p> <p>Math (4 credits) <i>Algebra I, Geometry, Algebra II, and an Advanced Math course required for endorsement</i></p> <p>Science (4 credits) <i>Biology (IPC, Chemistry, Physics or Principles of Technology) and 2 Advanced Science courses</i></p> <p>Social Studies (3 credits) <i>US History, US Gov't/Economics, and World Geography or World History</i></p> <p>Languages Other than English (2 credits)</p> <p>Physical Ed. (1 credit)</p> <p>Fine Arts (1 credit)</p> <p>Health (.5 credit)</p> <p>Professional Communications (Speech) (.5 credit)</p> <p>Technology (.5 credit)</p> <p>Endorsement Coursework / Electives (5.5 credits)</p> <p style="text-align: right;">26 Credits Total</p>				
<p style="text-align: center;">BISD</p> <p style="text-align: center;"><i>Birdville ISD believes it is vital for students to have every opportunity to excel academically through rigorous and challenging courses. Pre-Advanced Placement (Pre-AP), Advanced Placement (AP) courses, and Dual Credit courses offer options to excel in many areas of study.</i></p>				
<p style="text-align: center;"><i>It is the responsibility of each college-bound student to research admission requirements, as each college's requirements may differ.</i></p>				



Birdville Independent School District Sample Personal Graduation Plan for Arts and Humanities Area of Study

Students have the opportunity to earn high school credit during middle school that meet graduation requirements.

	1	2	3	4	5	6	7
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	World Geo./ AP Human Geo./ Pre-AP W. Geo. or Endorsement Course/Elective	Biology/ Pre-AP Biology/ + IPC EOC	*World Languages	*Fine Arts	*Endorsement Course
10th	English 2/ Pre AP English 2 EOC	Geometry/ Pre-AP Geometry	World History/ Pre-AP, AP W. Hist. or Endorsement Course/Elective	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	*World Languages	*Health/ Endorsement Course/Elective	*Endorsement Course
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	U.S. History/ AP U.S. History/ Dual EOC	Physics/ AP Physics or Advanced Science	*Technology/ Professional Communications	*Physical Education	*Endorsement Course
12th	4th English/ AP English 4/ Dual/Creative Meeting Debates	Advanced Math	Gov't Econ/ AP Gov't Econ/ Dual	Advanced Science	*Endorsement Course/Elective	*Endorsement Course/Elective	*Endorsement Course

**Designated courses may be completed at any grade level
EOC-End of Course Exam
+ IPC with counselor approval*

Courses Directly Related to the Arts and Humanities

AP Capstone Seminar
*Research topic must correspond to an endorsement to quality
Social Studies
World Geography / Pre AP
World History Pre-AP / AP
AP Human Geography
AP European History
AP / Dual U.S. Government/ U.S. Government & Politics
AP / Dual Economics / Microeconomics
Psychology
AP Psychology
Sociology
Dual Credit Sociology
English Language Arts
Creative Writing
Debate 1, 2, 3
World Languages
French On-Level, Pre-AP & AP
Latin On-Level, Pre-AP & AP
Spanish On-Level, Pre-AP, AP, & Dual
Spanish for Native Speakers On-Level, Pre-AP & AP
American Sign Language / Dual
Mandarin Chinese On-Level, Pre-AP & AP

Art
Art
Art 1 & 2 Select
Art 2, 3, 4- Drawing
AP Art 4 Drawing
Art 2 & 3 - Ceramics
Art 2, 3, 4- Painting
Art 2 & 3- Sculpture
AP Art History
AP Art/Two Dimensional
AP Art/Three Dimensional
Floral Design
Advanced Floral Design
Dance
Dance 1, 2, 3, 4
Dance Drill Team
Music
Band 1, 2, 3, 4
Jazz Band 1, 2, 3, 4
Percussion 1, 2, 3, 4
Choral Music 1, 2, 3, 4
Vocal Ensemble 1, 2, 3, 4
AP Music Theory
Theater
Select Theater Arts 1
Theater Arts 1, 2, 3, 4
Technical Theater 1, 2, 3, 4

*Course meets technology requirement for graduation.



Birdville Independent School District Sample Personal Graduation Plan for Business and Industry Area of Study

Students have the opportunity to earn high school credit during middle school that meet graduation requirements.

	1	2	3	4	5	6	7
9th	English 1/ Pre-AP English I EOC	Algebra 1/ Pre-AP Algebra 1 EOC	World Geo./ AP Human Geo./ Pre-AP W. Geo. or Endorsement Course/Elective	Biology/ Pre-AP Biology/ + IPC EOC	*World Languages	*Fine Arts	*Endorsement Course
10th	English 2/ Pre AP English 2 EOC	Geometry/ Pre-AP Geometry	World History/ Pre-AP, AP W. Hist. or Endorsement Course/Elective	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	*World Languages	*Health/ Endorsement Course/Elective	*Endorsement Course
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	U.S. History/ AP U.S. History/ Dual EOC	Physics/ AP Physics or Advanced Science	*Technology/ Professional Communications	*Physical Education	*Endorsement Course
12th	4th English/ AP English 4/ Dual/Creative Writing Debates	Advanced Math	Gov't Econ/ AP Gov't Econ/ Dual	Advanced Science	*Endorsement Course/Elective	*Endorsement Course/Elective	*Endorsement Course

**Designated courses may be completed at any grade level
EOC-End of Course Exam
+ IPC with counselor approval*

Courses Directly Related to the Business and Industry Area of Study

Agriculture, Food & Natural Resources
Principles of Agriculture, Food, and Natural Resources
Wildlife, Fisheries & Ecology Management
Advanced Animal Science (Science Credit)
Livestock Production
Equine Science / Small Animal Management
Floral Design (Fine Arts Credit)
Advanced Floral Design
Horticulture Science
Advanced Plant & Soil Science (Science Credit)
Greenhouse Operations and Production
Agriculture Mechanics and Metal Technologies
Veterinarian Medical Applications

Architecture & Construction
Civil Engineering & Architecture*
Construction Technology
Advanced Construction Technology
Practicum in Construction Management
Interior Design
Advanced Interior Design

Arts, A/V Technology & Communications
Graphic Design & Illustration*
Advanced Graphic Design and Illustration*
Animation*
Advanced Animation*
Fashion Design
Practicum Fashion Design
Audio Video Production*
Advanced Audio Video Production*
Professional Communications (Speech Credit)

Business Management & Administration
Principles of Business, Marketing and Finance
Practicum in Business Management*
Business Law
Business English
Business Information Management 1*
Business Information Management 2*
Global Business
Virtual Business

*Course meets technology requirement for graduation.

Courses Directly Related to the Business and Industry Area of Study

Finance
Statistics and Business Decision Making (Mathematics Credit)
Principles of Business, Marketing, and Finance
Accounting 1
Accounting 2

Hospitality & Tourism (Culinary Arts)
Culinary Arts
Practicum in Culinary Arts
Hotel Management
Restaurant Management
Travel and Tourism Management
Practicum in Hospitality & Tourism
Food Science (Science Credit)

Information Technology
Principles of Information Technology *
Digital and Interactive Media*
Web Technologies*
Computer Programming & Game Design*
CISCO Internetworking 1*
CISCO Internetworking 2*
Computer Maintenance*
Computer Technician*

Marketing, Sales & Service
Principles of Business, Marketing and Finance
Marketing
Practicum in Marketing
Entrepreneurship
Fashion Marketing
Sports & Entertainment Marketing
Advertising
Social Media

Transportation & Logistics (Auto Technology)
Principles of Transportation System
Energy, Power, & Transportation Systems
Automotive Technology
Advanced Automotive Technology
Practicum in Transportation, Distribution & Logistics
Aircraft Technology
Advanced Aircraft Technology

Journalism
Journalism (Principles Arts A/V & Communications)*
Advanced Journalism Yearbook 1, 2, 3 (Graphic Design & Illustration)*
Advanced Journalism Newspaper 1, 2 3 (Printing and Imaging Technology)*
Photojournalism (Commercial Photograph)*

*Course meets technology requirement for graduation.



Birdville Independent School District Sample Personal Graduation Plan for Public Services Area of Study

Students have the opportunity to earn high school credit during middle school that meet graduation requirements.

	1	2	3	4	5	6	7
9th	English 1/ Pre-AP English I EOC	Algebra 1/ Pre-AP Algebra 1 EOC	World Geo./ AP Human Geo./ Pre-AP W. Geo. or Endorsement Course/Elective	Biology/ Pre-AP Biology/ + IPC EOC	*World Languages	*Fine Arts	*Endorsement Course
10th	English 2/ Pre AP English 2 EOC	Geometry/ Pre-AP Geometry	World History/ Pre-AP, AP W. Hist. or Endorsement Course/Elective	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	*World Languages	*Health/ Endorsement Course/Elective	*Endorsement Course
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	U.S. History/ AP U.S. History/ Dual EOC	Physics/ AP Physics or Advanced Science	*Technology/ Professional Communications	*Physical Education	*Endorsement Course
12th	4th English/ AP English 4/ Dual/Creative Writing Debates	Advanced Math	Gov't Econ/ AP Gov't Econ/ Dual	Advanced Science	*Endorsement Course/Elective	*Endorsement Course/Elective	*Endorsement Course

**Designated courses may be completed at any grade level
EOC-End of Course Exam
+ IPC with counselor approval*

Courses Directly Related to the Public Services Area of Study

Health Science

Principles of Health Science (Health Credit)
Medical Terminology
Medical Microbiology (Science Credit)
Pathophysiology (Science Credit)
Anatomy and Physiology (Science Credit)
Medical Administrative Assistant
Health Science (Clinical Rotations) (Health Credit)
Practicum in Health Science 2 (Clinical Rotation 2) CPCT
Practicum in Health Science - Pharmacy Technician
Practicum in Health Science- EMT
Practicum EKG/Phlebotomy Technician
Sports Medicine I/Health Science (Health Credit)
Sports Medicine 2/Health Science (Health Credit)
Sports Medicine 3/Health Science

Human Services

Principles of Human Services
Child Development
Lifetime Nutrition and Wellness (Health Credit)
Dollars and Sense
Interpersonal Skills
Counseling & Mental Health
Cosmetology 1
Cosmetology 2

Education and Training

Principles of Education and Training
Instructional Practice in Education and Training
Practicum in Education and Training
Human Growth and Development
Extended Practicum in Education

Law, Public Safety, Corrections & Security

Principles of Law, Public Safety, Corrections & Security
Court Systems and Practices
Law Enforcement 1
Law Enforcement 2 - Correctional Services
Practicum in Law, Public Safety, Corrections & Security
Criminal Investigations
911 Dispatch
Forensic Science (Science Credit)
Firefighter 1
Firefighter 2

Government & Public Administration

JROTC 1, 2, 3, 4

*Course meets technology requirement for graduation.



Birdville Independent School District Sample Personal Graduation Plan for STEM Area of Study

Students have the opportunity to earn high school credit during middle school that meet graduation requirements.

	1	2	3	4	5	6	7
9th	English 1/ Pre-AP English I EOC	Algebra 1/ Pre-AP Algebra 1 EOC	World Geo./ AP Human Geo./ Pre-AP W. Geo. or Endorsement Course/Elective	Biology/ Pre-AP Biology EOC	*World Languages	*Fine Arts	*Endorsement Course
10th	English 2/ Pre AP English 2 EOC	Geometry/ Pre-AP Geometry	World History/ Pre-AP, AP W. Hist. or Endorsement Course/Elective	Chemistry/ Pre-AP Chemistry or Advanced Science	*World Languages	*Health/ Endorsement Course/Elective	*Endorsement Course
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	U.S. History/ AP U.S. History/ Dual	Physics/ AP Physics or Advanced Science	*Technology/ Professional Communications	*Physical Education	*Endorsement Course
12th	4th English/ AP English 4/ Dual/Creative	Advanced Math	Gov't Econ/ AP Gov't Econ/ Dual	Advanced Science	*Advanced Science	*Endorsement Course/Elective	*Endorsement Course

**Designated courses may be completed at any grade level
EOC-End of Course Exam*

Courses Directly Related to the STEM Area of Study

AP Capstone Seminar
*Research topic must correspond to an endorsement to qualify.

Engineering
Engineering Mathematics (Mathematics Credit)
Robotics 1*
Robotics 2*
Introduction to Engineering Design PLTW*
Civil Engineering & Architecture PLTW*
Principles of Technology PLTW (Physics Credit)*
Digital Electronics PLTW (Mathematics Credit)*
Aerospace Engineering PLTW*
Drone Aerospace Systems
Computer Integrated Manufacturing PLTW*
Engineering Development and Design
Rocket Engineering 1 (Science Credit)
Rocket Engineering 2 (Science Credit)

Math
Algebra 2 or Pre-AP Algebra 2
Precalculus / Pre-AP / Dual
AP Calculus AB
AP Calculus BC
AP Statistics / Dual
Engineering Mathematics
Advanced Quantitative Reasoning
Statistics & Business Decision Making

Science
AP Biology
AP Chemistry
Physics Pre-AP
AP Physics
Principles of Technology (Physics Credit)
Aquatic Science
Advanced Plant & Soil Science
Advanced Animal Science
Astronomy
Environmental Systems
AP Environmental Science
Anatomy & Physiology
Medical Microbiology
Pathophysiology
Forensic Science
Food Science

Computer Science
AP Computer Science Principles PLTW*
AP Computer Science*

*Course meets technology requirement for graduation.



Birdville Independent School District Sample Personal Graduation Plan for Multidisciplinary Studies Area of Study

Students have the opportunity to earn high school credit during middle school that meet graduation requirements.

	1	2	3	4	5	6	7
9th	English 1/ Pre-AP English I EOC	Algebra 1/ Pre-AP Algebra 1 EOC	World Geo./ AP Human Geo./ Pre-AP W. Geo. or Endorsement Course/Elective	Biology/ Pre-AP Biology/ + IPC EOC	*World Languages	*Fine Arts	*Endorsement Course
10th	English 2/ Pre AP English 2 EOC	Geometry/ Pre-AP Geometry	World History/ Pre-AP, AP W. Hist. or Endorsement Course/Elective	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	*World Languages	*Health/ Endorsement Course/Elective	*Endorsement Course
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	U.S. History/ AP U.S. History/ Dual	Physics/ AP Physics or Advanced Science	*Technology/ Professional Communications	*Physical Education	*Endorsement Course
12th	4th English/ AP English 4/ Dual/Creative	Advanced Math	Gov't Econ/ AP Gov't Econ/ Dual	Advanced Science	*Endorsement Course/Elective	*Endorsement Course/Elective	*Endorsement Course

*Designated courses may be completed at any grade level
EOC-End of Course Exam
+ IPC with counselor approval

Courses Directly Related to the Multidisciplinary Studies Area of Study

Arts and Humanities
AP Capstone Seminar
*Research topic must correspond to an endorsement to qualify.
Social Studies
World Geography / Pre-AP
World History Pre-AP / AP
AP Human Geography
AP European History
AP / Dual U.S. Government / U.S. Government & Policies
AP / Dual Economics / Microeconomics
Psychology
AP Psychology
Sociology
Dual Credit Sociology
English Language Arts
Creative Writing
Debate 1, 2, 3
World Languages
French On-Level, Pre-AP & AP
Latin On-Level, Pre-AP & AP
Spanish On-Level, Pre-AP, AP & Dual
Spanish for Native Speakers On-Level, Pre-AP & AP
American Sign Language / Dual
Mandarin Chinese On-Level, Pre-AP & AP

Arts and Humanities
Art
Art
Art 1 & 2 Select
Art 2, 3, 4- Drawing
AP Art 4 Drawing
Art 2 & 3 - Ceramics
Art 2, 3, 4- Painting
Art 2 & 3- Sculpture
AP Art History
AP Art/Two Dimensional
AP Art/Three Dimensional
Floral Design
Advanced Floral Design
Dance
Dance 1, 2, 3, 4
Dance Drill Team
Music
Band 1, 2, 3, 4
Jazz Band 1, 2, 3, 4
Percussion 1, 2, 3, 4
Choral Music 1, 2, 3, 4
Vocal Ensemble 1, 2, 3, 4
AP Music Theory
Theater
Select Theater Arts 1
Theater Arts 1, 2, 3, 4
Technical Theater 1, 2, 3, 4

*Course meets technology requirement for graduation.

Courses Directly Related to the Multidisciplinary Studies Area of Study

Business & Industry
Agriculture, Food & Natural Resources
Principles of Agriculture, Food, and Natural Resources
Wildlife, Fisheries & Ecology Management
Advanced Animal Science (Science Credit)
Livestock Production
Equine Science / Small Animal Management
Principles and Elements of Floral Design (Fine Arts Credit)
Floral Design (Fine Arts Credit)
Advanced Floral Design
Horticulture Science
Advanced Plant & Soil Science (Science Credit)
Greenhouse Operations and Production
Agriculture Mechanics and Metal Technologies
Architecture & Construction
Civil Engineering & Architecture *
Construction Technology
Advanced Construction Technology
Practicum in Construction Management
Interior Design
Advanced Interior Design
Arts, A/V Technology & Communications
Graphic Design & Illustration *
Advanced Graphic Design and Illustration *
Animation *
Advanced Animation *
Fashion Design
Practicum Fashion Design
Audio Video Production *
Advanced Audio Video Production *
Professional Communications (Speech Credit)
Business Management & Administration
Principles of Business, Marketing and Finance
Practicum in Business Management *
Business Law
Business English
Business Information Management 1*
Business Information Management 2*
Global Business
Virtual Business
Money Matters
Finance
Statistics and Business Decision Making (Mathematics Credit)
Principles of Business, Marketing, and Finance
Accounting 1
Accounting 2
Banking and Financial Services
Hospitality & Tourism (Culinary Arts)
Culinary Arts
Practicum in Culinary Arts
Hotel Management
Restaurant Management
Travel and Tourism Management
Practicum in Hospitality & Tourism
Food Science (Science Credit)
Principles of Hospitality

Business & Industry
Information Technology
Principles of Information Technology *
Digital and Interactive Media *
Web Technologies *
Computer Programming & Game Design*
Advanced Computer Programming *
CISCO Internetworking 1*
CISCO Internetworking 2*
Computer Maintenance *
Computer Technician *
Marketing, Sales & Service
Principles of Business, Marketing and Finance
Marketing Dynamics
Practicum in Marketing Dynamics
Entrepreneurship
Fashion Merchandising & Marketing
Sports & Entertainment Marketing
Advertising and Sales Promotion
Social Media
Transportation & Logistics (Auto Technology)
Principles of Transportation System
Energy, Power, & Transportation Systems
Principles of Manufacturing *
Automotive Technology
Advanced Automotive Technology
Practicum in Transportation, Distribution & Logistics
Aircraft Technology
Advanced Aircraft Technology
Journalism
Journalism*
Advanced Journalism Yearbook 1, 2, 3 (Graphic Design & Illustration)*
Advanced Journalism Newspaper 1, 2, 3 (Printing and Imaging Technology)*
Photojournalism*
STEM
Engineering
Engineering Mathematics (Mathematics Credit)
Robotics 1*
Introduction to Engineering Design PLTW*
Civil Engineering and Architecture PLTW*
Principles of Principles PLTW (Science Credit)*
Digital Electronics PLTW (Mathematics Credit)*
Aerospace Engineering PLTW*
Drone Aerospace Systems
Computer Integrated Manufacturing PLTW*
Engineering Design & Development
Rocket Engineering 1 (Science Credit)
Rocket Engineering 2 (Science Credit)
Math
Algebra 2 or Pre-AP Algebra 2
Precalculus / Pre-AP / Dual
AP Calculus AB
AP Calculus BC
AP Statistics / Dual
Engineering Mathematics
Advanced Quantitative Reasoning
Statistics & Business Decision Making
Elementary Statistics I & II (Dual)
College Algebra (Dual)

STEM
Science
AP Biology
AP Chemistry
Physics Pre-AP
AP Physics
Aquatic Science
Principles of Technology (Physics Credit)
Advanced Plant & Soil Science
Advanced Animal Science
Astronomy
Environmental Systems
AP Environmental Science
Anatomy & Physiology
Medical Microbiology
Pathophysiology
Forensic Science
Food Science
Computer Science
AP Computer Science Principles
AP Computer Science*
Public Services
Health Science
Principles of Health Science (Health Credit)
Medical Terminology
Health Science (Clinical Rotation) (Health Credit)
Practicum in Health Science 2 (Clinical Rotation 2)
Practicum in Health Science - Pharmacy Technician
Practicum in Health Science- EMT
Anatomy and Physiology/Honors (Science Credit)
Practicum EKG/Phlebotomy Technician
Medical Administrative Assistant
Medical Microbiology (Science Credit)
Pathophysiology (Science Credit)
Sports Medicine 1 (Health Credit)
Sports Medicine 2 (Health Credit)
Sports Medicine 3
Education and Training
Principles of Education and Training
Instructional Practice in Education and Training
Practicum in Education and Training
Human Growth and Development
Extended Practicum in Education and Training
Law, Public Safety, Corrections & Security
Prin of Law, Public Safety, Corrections & Security
Court Systems and Practices
Law Enforcement 1
Law Enforcement 2
Criminal Investigations
Practicum in Law, Public Safety, Corrections & Security
911 Dispatch
Forensic Science
Firefighter 1
Firefighter 2
Human Services
Principles of Human Services
Practicum in Human Services
Child Development
Lifetime Nutrition and Wellness (Health Credit)
Dollars and Sense
Interpersonal Skills
Counseling & Mental Health
Cosmetology 1
Cosmetology 2
Government & Public Administration
JROTC

*Course meets technology requirement for graduation.

Current CTE Course Offerings that Meet Graduation Requirements

(Math, Science, Fine Arts, Speech, Health, Technology)

Math

Engineering Mathematics
Digital Electronics
Statistics and Business Decision Making
Financial Mathematics
Robotics 2
Accounting 2

Science

Principles of Technology (Physics)
Engineering Science
Rocket Engineering 1 (Scientific Research & Design)
Rocket Engineering 2 (Engineering, Design & Problem Solving)
Advanced Animal Science
Advanced Plant & Soil Science
Food Science
Forensic Science
Anatomy & Physiology
Medical Microbiology
Pathophysiology

Fine Arts

Floral Design

Health

Principles of Health Science
Clinical Rotations (Health Science)
Sports Medicine 1 (Principles of Health Science)
Sports Medicine 2 (Health Science)
Lifetime Nutrition & Wellness

Speech

Professional Communications

Technology

Graphic Design & Illustration
Advanced Graphic Design & Illustration
Animation
Advanced Animation
Audio Video Production
Advanced Audio Video Production
Practicum Audio Video Production
Journalism (Principles, Arts, A/V & Communications)
Photojournalism (Commercial Photography)
Adv. Yearbook or Newspaper 1 (Graphic Design & Illustration)
Adv. Yearbook or Newspaper 2 (Adv. Graphic Design & Illustration)
Practicum in Business Management
Business Information Management
Principles in Information Technology
Digital and Interactive Media
Web Technologies
Computer Programming and Game Design
CISCO Internetworking
Computer Maintenance
Computer Technician
Robotics and Automation 1 & 2
Introduction to Engineering Design (PLTW)
Principles of Engineering (PLTW)
Digital Electronics (PLTW)
Aerospace Engineering (PLTW)
Aerospace Drone Systems (PLTW)
Civil Engineering and Architecture (PLTW)
Computer Integrated Manufacturing (PLTW)

Middle School

Principles of A/V Technology and Communications
Principles of Information Technology
Business Information Management
Gateway to Technology 1 Design, Modeling, and Automation (PLTW)
Gateway to Technology 2 Applied Science and Technology (PLTW)
Gateway to Technology 3 Energy, Environment and Flight (PLTW)
Gateway to Technology 4 Architecture & Bio Medical (PLTW)

**(PLTW) Project Lead the Way*

PORTRAIT OF A GRADUATE



The strategic mission of Birdville ISD is to ensure that all students position themselves to excel with integrity in an ever-changing, global society. Embedded in this mission is the commitment to provide students with innovative and responsive learning environments where graduates are empowered learners, responsible citizens, global competitors and innovative entrepreneurs.

To be prepared for success in college and the workplace, a Birdville ISD graduate is a/are:

Empowered Learner

- Applies knowledge and skills mastered through well-rounded, comprehensive, rigorous and relevant learning experiences
- Communicates effectively for different audiences and purposes through authentic reading, writing, listening and speaking
- Seeks opportunities to learn and grow in response to an ever-changing world

Responsible Citizen

- Collaborates effectively with teams, both as a contributor and a leader, to accomplish a common goal with a commitment to service
- Balances physical, mental and emotional health through reflection, self-evaluation and self-advocacy
- Demonstrates ethical behaviors exhibiting integrity, respect and accountability

Global Competitor

- Demonstrates knowledge of and empathy for cultural, economic, environmental and social issues across the world
- Values the importance of diversity in life and careers
- Exhibits academic, technological and workplace competence within a global environment

Innovative Entrepreneur

- Solves problems through collaboration, critical thinking, creativity and innovation
- Takes calculated risks, learns from mistakes and is resilient in the face of challenges
- Embraces and applies passions to execute plans and accomplish career and life goals

GRADUATION REQUIREMENTS

You are encouraged to plan your personal graduation plan so that you graduate with 26 credits and meet your selected endorsement requirements. Also, if you plan to take fine arts and/or athletics/cheerleading for four years, it may mean that you graduate with more than 26 credits. It is very important that you consider the number of courses that you take during all four years of your high school experience. In addition, your senior year is an important year. More than likely, you are preparing to transition into college or some kind of technical training. Often, students minimize their senior year and forget that transitioning into college or technical school requires managing a full-load of courses. If you have completed all of your high school graduation requirements, taking dual-credit or an AP course for college credit will make that transition to college more successful.

STATE TESTING REQUIREMENTS FOR GRADUATION

In addition to successfully completing all course requirements, students must meet certain state testing requirements for graduation, which are based on performance on STAAR End-of-Course (EOC) exams. Students must meet the Approaches Grade Level standard or higher on exams in English I, English II, Algebra I, Biology, and U.S. History. Retest opportunities for students who fail to meet the standard are provided three times during the year in spring (April/May), summer (June), and fall (December).

SHANNON HIGH SCHOOL



Shannon High School is dedicated to providing social, emotional, and academic support to BISD students who have fallen behind in earning the credits necessary to graduate. Priority is given to students who are designated at risk and in danger of dropping out.

Shannon operates on a Blended, Flex/Hybrid Personalized learning model designed to empower our students to achieve success in the classroom resulting in the earning of their high school diploma. Shannon runs on an accelerated quarter system, which provides students with the opportunity to earn credits at a faster pace than at traditional school settings. Due to the accelerated model, attendance is the most critical factor in determining a student's success.

Students are admitted to Shannon by way of an application and interview process. This process is used to determine a student's motivation for catching up and their ability and commitment to doing what it takes to attend regularly and put forth the necessary effort to earn their high school diploma.

RETRIEVING CREDIT FOR PRIOR INSTRUCTION

Any student who has failed a course may take credit by examination if the student failed the course with at least a grade of 60. The Compass Learning Credit Retrieval lab is available only if the student did not receive an NC. A grade of seventy or higher is required to earn credit for the course in which the examination was attempted. A student must be enrolled in order to take credit by exam. Further information may be obtained in the counseling office at each campus.

Transportation, Distribution & Logistics - Aircraft Technology

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Courses Required for Graduation	Potential Certification
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Intro to Engineering Design - Design - PLTW (1 credit)	<i>The following courses may be completed at any grade level</i>	Autodesk Inventor Certified User
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Engineering Science or Energy, Power & Transportation Systems (1 credit)	Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Principles of Transportation (1 credit)	Language other than English (2 credits) Physical Education	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Aerospace Engineering (1 credit) Aircraft Technology (3 credits) Advanced Aircraft Technology (3 credits) Engineering Mathematics (1 credit)	(1 credit) Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Aviation Maintenance Technology (AMT)		X	X			\$56,214.00
Industrial Machinery Mechanic	X	X				\$43,742.40
Flight Engineer				X		\$141,399.00
Aerospace Engineer & Operation Technician			X			\$56,789.00
Transportation Inspector	X	X				\$61,744.00
Avionics Equipment Mechanic		X	X			\$61,260.00

Career & Technical Student Organizations
SkillsUSA National Technical Honor Society Technology Student Association

ASSURANCE OF NONDISCRIMINATION

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Agricultural Food and Natural Resources - Animal Science/Vet Tech

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Floral Design Certification
Prof Communications (.5 credit)	Private Pesticide Applicator License
Health (.5 credit)	Texas Master Gardener
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Ag Food and Natural Resources (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Floral Design 1 (1 credit) Horticulture (1 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Greenhouse (1 credit) Advanced Floral Design (1 credit)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Adv. Plant Soil Science (1 credit)

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Veterinary Technologist & Technician		X	X			\$33,189.00
Agriculture Food Science Technician						\$43,103.00
Agriculture Crop and Horticulture Manager			X	X		\$56,168.00
Agriculture Inspector				X		\$48,905.00
Farmer, Rancher and Agriculture Manager			X	X		\$78,345.00
Agricultural Engineer				X		\$100,383.00

Career & Technical Student Organizations
FFA National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Construction Technology (1 credit)	OSHA NCCER Forklift CPR
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Construction Technology 2 (2 credit) Interior Design (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Practicum in Construction Technology 3 (2 credits) Interior Design (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum in Construction Technology 4 (2 credits) Civil Engineering & Architecture (1 credit) Adv. Interior Design (1 credit)	

Courses Required for Graduation	Potential Certification Opportunities
The following courses may be completed at any grade level	OSHA NCCER Forklift CPR
Prof Communications (.5 credit) Health (.5 credit) (1 credit)	
Language other than English (2 credits) Physical Education (1 credit) (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Electrician	X	X				\$48,000.00
Carpenter	X	X				\$40,000.00
HAVC Technicians	X	X				\$41,000.00
Master Plumber	X	X				\$47,000.00
Service Technician	X	X				\$31,000.00
Maintenance Technician	X	X				\$34,000.00
Maintenance Assistants	X	X				\$64,000.00

Career & Technical Student Organizations
SkillsUSA National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Courses Required for Graduation	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/+ IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Prof. Communications (.5 credit) Graphic Design & Illustrator 1 (1 credit)	<i>The following courses may be completed at any grade level</i> Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	Adobe Logic Pro Photoshop After Effects
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Graphic Design & Illustrator 2 (1 credit) {or} Animation (1 credit) - and Audio Video Production 1 (2 credits)		
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Adv. Video Production 2 (2 credits) OR - Advanced Audio Production 2 (2 credits)		
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics CAP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum Video Production 3 (2 credits) OR Practicum Audio Production 3 (2 credits)		

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Projectionist	X					\$24,378.00
Audio/Sound Technician	X					\$54,707.00
Photographer	X		X			\$44,676.00
Broadcast Media Technician			X			\$46,067.00
Radio Announcer				X		\$52,507.00
Radio/TV/Film Director				X		\$68,561.00

Career & Technical Student Organizations
Film Festivals Technology Student Association National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Transportation (1 credit) Energy, Power & Transportation Systems (1 credit)	Automotive Service Excellence CPR
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Automotive Technology (2 credits)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Advanced Automotive Technology 2 (3 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum in Automotive Technology 3 (3 credits)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Automotive Service Excellence
Prof Communications (.5 credit) Health	CPR
(.5 credit) Fine Arts (1 credit) Language other than English	
(2 credits) Physical Education	
(1 credit) Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Automotive Service Technician	X	X	X			\$36,870.00
Diesel Mechanic	X	X	X			\$40,850.00
Automotive Engineer				X	X	\$78,160.00
Insurance Claims Appraiser	X		X			\$58,500.00
Management Technician	X	X	X			\$82,000.00

Career & Technical Student Organizations
SkillsUSA National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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Business Management and Administration

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Business Marketing & Finance (1 credit) Business Info Mgmt. (1 credit)	Microsoft Office Specialist Adobe
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Global Business (.5 credit) Virtual Business (.5 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Business Info Mgmt. 2 (1 credit) Business Law (1 credit) Practicum Business (3 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Business English (1 credit) Practicum Business Mgmt. 2 (3 credits)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Financial Analyst				X	X	\$77,826.00
Public Relations Manager		X		X		\$84,430.00
Accountant				X		\$59,430.00
Management Specialist				X		\$50,460.00
New Accounts Clerk		X	X			\$30,627.00
Receptionist & Information Clerk	X	X				\$24,320.00
Teller	X					\$20,843.00

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Microsoft Office Specialist
Prof Communications (.5 credit)	Adobe
Health (.5 credit)	
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Career & Technical Student Organizations
Business Professionals of America National Technical Honor Society

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Information Technology - CISCO Networking



	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Technology (1 credit) Prof. Communications (1 credit)	Adobe CCNA-CISCO Certified Network Associate CCENT-CISCO Certified Network Technician
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Web Technologies (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	CISCO Internetworking 1 (2 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology Engineering Science/	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	CISCO Internetworking 2 (2 credits)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
IT Support Specialist			X			\$64,513.00
CISCO Certified Network Associate		X				\$59,454.00
IT Director	X			X		\$89,016.00
Network Architect				X		\$105,920.00
System Administrator				X		\$81,840.00
Network Engineer				X		\$137,120.00

Career & Technical Student Organizations
Skills USA Technology Student Association National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Information Technology (1 credit)	Adobe IT Essentials, CompTIA A+
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Web Technologies (1 credit) Computer Programming (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Computer Maintenance (2 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics CAP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Computer Technician (2 credits)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Adobe IT Essentials, CompTIA A+
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
System Administrator				X		\$81,840.00
Computer Engineer				X		\$137,120.00
Application Programmer				X		\$68,793.00
Computer Technician - CompTIA A+		X				\$50,364.00
IT Support Specialist			X			\$51,371.00
Robotic Maintenance Technician			X			\$53,840.00

Career & Technical Student Organizations
Business Professionals of America Skills USA National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/+ IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Prof. Communications (1 credit)	ServSafe Food Handlers
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Culinary Arts 1 (2 credits)	ProStart CPR
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Practicum in Culinary Arts 2 (2 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum in Culinary Arts 2 (2 credits) Food Science (1 Science credit)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	ServSafe
Prof Communications (.5 credit)	Food Handlers
Health (.5 credit)	ProStart
Fine Arts (1 credit)	CPR
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Food Service Manager		X				\$53,802.00
Chef & Head Cook		X	X			\$37,300.00
Restaurant Cook		X				\$37,332.00
Executive Chef		X	X	X	X	\$52,000.00
Baker		X	X			\$26,000.00
Caterer		X	X			\$40,000.00
Sous Chef	X	X	X			\$40,700.00

Career & Technical Student Organizations
SkillsUSA Family, Career and Community Leaders of America (FCCLA) National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

The Birdsboro Independent School District does not discriminate on the basis of a disability by denying access to the benefits of District services, programs, or activities. To request information about the applicability of Title II of the Americans with Disabilities Act (ADA), interested persons should contact Skip Baskerville at (817) 547-5738.

	Language Arts	Math	Science	Social Studies	CTE Courses for	Potential Certification
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Prof. Communications (.5 credit) Graphic Design & Illustrator 1 (1 credit)	Adobe
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Graphic Design & Illustrator 2 (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Fashion Design 1 (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Fashion Design 2 (1 credit)	

Courses Required for	Potential Certification
<i>The following courses may be completed at any grade level</i>	Adobe
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit)	
Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Costume Attendant	X					\$37,763.00
Fashion Designer			X			\$58,854.00
Fabric & Apparel Pattern Maker		X				\$39,991.00
Retail Supervisor			X			\$45,120.00
Interior Designer				X		\$59,579.00
Tailor/Dressmaker	X					\$26,835.00

Career & Technical Student Organizations
Business Professionals of America (BPA) Family, Career, Community Leaders of America (FCCLA) National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/+ IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Business Marketing / Finance (1 credit)	<p>The following courses may be completed at any grade level!</p> <p>Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)</p>
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Statistics Business Decision Making (1 credit) Accounting 1 (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Accounting 2 (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Dual Credit Accounting (2 credits)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Financial Analyst				X	X	\$77,826.00
Public Relations Manager		X		X		\$84,430.00
Accountant				X		\$59,430.00
Management Specialist				X		\$50,460.00
New Accounts Clerk		X	X			\$30,627.00
Receptionist & Information Clerk	X	X				\$24,320.00
Teller	X					\$20,843.00

Career & Technical Student Organizations
Business Professionals of America National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/+ IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Ag Food and Natural Resources (1 credit) Wildlife Fisheries & Ecology (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Equine Science (.5 credit) Small Animal Mgmt. (.5 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Livestock Production (1 credit) Vet Med Applications (1 credit)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Adv. Animal Science (1 credit) Practicum Ag Food and Natural Resources (2 credits)

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level/</i>	A.I. Technician
Prof Communications (.5 credit) Health	Animal Groomer
(.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	Animal Care Hunter Safety License Veterinarian Technician

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Floral Designer		X				\$26,055.00
Agricultural Technician			X			\$43,103.00
Agricultural Inspector				X		\$48,904.00
Food Science Technician			X			\$43,103.00
Agriculture Crop and Horticulture Worker			X	X		\$56,168.00
Landscape Architect				X		\$70,806.00

Career & Technical Student Organizations
FFA National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

The Brainerd Independent School District does not discriminate on the basis of a disability by denying access to the benefits of District services, programs, or activities. To request information about the applicability of Title II of the Americans with Disabilities Act (ADA), interested persons should contact Skip Baskerville at (817) 547-5738.

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Prof. Communications (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Hotel Management/ Restaurant Management (2 credits)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Travel & Tourism Management/Hospitality (2 credits)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum in Hospitality Services (2 credits) Food Science (1 Science credit)

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	SABRE
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	CPR

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Meeting & Convention Planner				X	X	\$45,000.00
Lodging Manager				X		\$57,284.00
Food Service Manager			X			\$53,800.00
Tour Guide	X					\$25,438.00
Restaurant Cook			X	X		\$37,322.00
Reservation & Transportation Ticket Agent & Travel Clerk	X	X	X			\$36,676.00

Career & Technical Student Organizations
DECA National Technical Honor Society

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Arts, Audio Visual Technology and Communications - Journalism

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Courses Required for Graduation	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Photojournalism (1 credit) Journalism (1 credit)	The following courses may be completed at any grade level Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	Adobe
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Adv. Journalism 1 Yearbook (1 credit) Adv. Journalism 1 Newspaper (1 credit)		
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Adv. Journalism 2 Yearbook (1 credit) Adv. Journalism 2 Newspaper (1 credit)		
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Adv. Journalism 3 Yearbook (1 credit) Adv. Journalism 3 Newspaper (1 credit)		

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Camera and Photographic Repair Technician	X	X				\$51,697.00
Photographer	X		X			\$44,676.00
Communications Teacher, Post Secondary				X		\$61,294.00
Media Communications Equipment Worker	X	X				\$84,963.00
Writer/Author	X			X		\$56,757.00
Audio Visual Equipment Technician			X			\$45,691.00

Career & Technical Student Organizations
Journalism Education Association National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Business Marketing / Finance (1 credit) Social Media (.5 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Sports & Entertainment Marketing (1 credit) Fashion Marketing (1 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Entrepreneurship (1 credit) Practicum in Marketing 2 (3 credits)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum in Marketing 2 (3 credits)

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	ASK Marketing Certification
Prof Communications (.5 credit)	OSHA
Health (.5 credit)	CPR
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Marketing Manager				X		\$84,873.00
Marketing Specialist				X		\$65,262.00
Energy Level Marketing			X	X		\$46,373.00
Sports Director of Marketing			X	X		\$74,424.00
Event Coordinator			X	X		\$30,000.00
Sales - Account Executive						

Career & Technical Student Organizations
Technology Student Association
SkillsUSA
National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Prin of Info Tech (1 semester/ 1 credit)	Microsoft Digital Literacy IC3
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Digital Media (1 credit) Animation (1 credit)	Adobe Dreamweaver Adobe Photoshop Adobe Premier
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Computer Programming/ Video Game Design 1 (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Game Design 2/3 (2 credits) AP Computer Programming (1 credit)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Microsoft Digital Literacy IC3
Prof Communications (.5 credit)	Adobe Dreamweaver
Health (.5 credit)	Adobe Photoshop
Fine Arts (1 credit)	Adobe Premier
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Computer Programmer				X		\$86,205.00
Computer System Engineer/Architect				X	X	\$90,573.00
Video Game Designer						\$90,573.00
Web Developer				X		\$71,341.00
Computer Operator		X	X			\$45,082.00
Gaming Support Specialist	X	X				\$28,000.00

Career & Technical Student Organizations
Business Professionals of America Technology Student Association SkillsUSA National Technical Honor Society

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Health Science - Clinical Rotations

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Health Science (1 credit) Prof. Communications (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Medical Terminology (1 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Anatomy & Physiology (1 credit) Clinical Rotations 1 (2 credits)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Pathophysiology (1 credit) Clinical Rotations 2 (2 credits)

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Certified Patient Care Technician (CPCT)
Prof Communications (.5 credit)	AED/CPR
Health (.5 credit)	Certified Electrocardiogram Technician (CET)
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Certified Medical Assistant		X				\$30,881.00
Biological Technician				X		\$45,713.00
Nurse RN			X			\$72,067.00
Nurse Practitioner					X	\$111,335.00
Physician Assistant					X	\$95,921.00
Physician					X	\$212,839.00

Career & Technical Student Organizations
HOSA
Skills USA
National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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Health Science - Electrocardiogram Technician / Phlebotomy

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Courses Required for Graduation	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Health Science (1 credit) Prof Communications (1 credit)	<i>The following courses may be completed at any grade level</i> Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	CPR/AED First Aid Certified Electrocardiogram Technician (CET) Certified Phlebotomy Technician
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Medical Terminology (1 credit)		
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Anatomy & Physiology (1 credit) Clinical Rotations 1 (2 credits)		
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Pathophysiology (1 credit) Electrocardiogram & Phlebotomy Technician Practicum (2 credits)		

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Phlebotomist		X				\$31,782.00
Certified Electrocardiogram Technician		X				\$36,657.00
Nurse RN/BSN			X	X		\$72,067.00
Nurse Practitioner					X	\$111,335.00
Physician Assistant					X	\$95,921.00
Physician					X	\$212,839.00

Career & Technical Student Organizations
HOSA SkillsUSA National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Health Science (1 credit) Prof. Communications (1 credit)	CPR/AED First Aid Emergency Medical Technician (EMT)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Medical Terminology (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Anatomy & Physiology (1 credit) Health Career Exploration (2 credits) or Sports Medicine (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics CAP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Emergency Medical Technician (EMT) (2 credits) Microbiology (1 credit) Pathophysiology (1 credit)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	CPR/AED
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit)	First Aid
Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	Emergency Medical Technician (EMT)

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Emergency Medical Technician (EMT)		X				\$27,289.60
Paramedic		X				\$36,854.00
Firefighter			X	X		\$53,480.00
Registered Nurse			X	X		\$72,067.00
Nurse Practitioner					X	\$111,335.00
Physician					X	\$212,839.00

Career & Technical Student Organizations
HOSA-Future Healthcare Professionals Skills USA National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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Health Science - Pharmacy Technician

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Health Sciences (1 credit) Prof. Communications (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Medical Terminology (1 credit) Medical Microbiology (1 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Pathophysiology (1 credit) Anatomy & Physiology (1 credit)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Pharmacy Technician (2 credits) Pharmacy Technician Practicum (3 credits)

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	CPR/AED
Prof Communications (.5 credit)	First Aid
Health (.5 credit)	Certified Pharmacy Technician
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Pharmacy Technician		X				\$33,632.00
Nurse RN/BSN			X	X		\$72,067.00
Nurse Practitioner					X	\$111,335.00
Physician Assistant					X	\$95,921.00
Pharmacist					X	\$126,465.00
Physician					X	\$212,839.00

Career & Technical Student Organizations
HOSA
Skills USA
National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Medical Terminology (1 credit) Prof. Communications (.5 credit)	CPR/AED First Aid
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Sports Medicine 1 (1 Health credit)	Microsoft Excel
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Sports Medicine 2 (1 Health credit) Anatomy & Physiology (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Sports Medicine 3 (2 credits) Pathophysiology (1 credit)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	CPR/AED
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	First Aid Microsoft Excel

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Paramedic		X				\$36,254.00
Fitness Trainer/Instructor		X				\$37,540.00
Athletic Trainer					X	\$53,091.00
Physical Therapist Assistant			X			\$70,449.00
Physical Therapist					X	\$95,922.00
Physician - Sports Medicine					X	\$212,839.00

Career & Technical Student Organizations
HOSA SkillsUSA National Technical Honor Society

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Health Science - Medical Administrative Assistant

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Intro to Health Science (1 credit) Prof. Communications (1 credit)	CPR / AED First Aid Certified Medical Administrative Assistant (CMAA)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Medical Terminology (1 credit) Prin. of Info Technology (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Anatomy & Physiology (1 credit) Accounting 1 (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Accounting 2 (1 credit) Medical Admin Assistant (1 credit) Pathophysiology (1 credit)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Medical Records & Health Info Technician		X				\$41,512.00
Medical Receptionist	X					\$29,388.00
Medical Transcriptionist		X				\$36,354.00
Medical Office Supervisor			X			\$61,062.00
Nurse RN/BSN			X			\$72,067.00
Pharmacist					X	\$126,465.00

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HOSA SkillsUSA National Technical Honor Society

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Health Science - Medical Microbiologist

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Intro to Health Science (1 credit) Prof. Communications (1 credit)	<p>The following courses may be completed at any grade level</p> <p>Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)</p>
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Medical Terminology (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Anatomy & Physiology (1 credit) Pathophysiology (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Medical Microbiology (1 credit) Forensic Science (1 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Medical Technologist				X		\$43,308.00
Microbiologist				X		\$55,294.00
Infectious Disease Nurse				X		\$72,067.00
Histology Technician				X		\$51,770.00
Medical Lab Assistant		X	X			\$27,451.00
Physician					X	\$212,839.00

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HOSA SkillsUSA National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Human Services (1 credit)	Cosmetology License CPR
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Child Development (1 credit) Life Nutrition & Wellness (.5 credit) Interpersonal Skills (.5 credit) Dollars & Sense (.5 credit) Counseling & Mental Health (1 credit)	Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Cosmetology 1 (3 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Cosmetology 2 (3 credits)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Manicurist	X	X				\$21,440.00
Pedicurist	X	X				\$19,748.00
Makeup Artist	X	X				\$67,580.00
Hair Stylist	X	X				\$26,790.00
Shampooers	X					\$18,600.00
Barber	X	X				\$31,720.00
Cosmetology Instructor			X	X		\$40,000.00

Career & Technical Student Organizations
SkillsUSA National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Education & Training (1 credit)	<p>The following courses may be completed at any grade level</p> <p>Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)</p>
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Human Growth & Development (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Instructional Practice in Education & Training (2 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum in Education & Training (2 credits) Extended Practicum in Education & Training	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Education Administrator				X	X	\$69,000.00
Elementary Teacher / Secondary Teacher				X	X	\$53,720.00
Special Education Teacher				X	X	\$46,600.00
Library Assistant	X					\$21,600.00
Teacher Assistant	X					\$17,700.00

Career & Technical Student Organizations
Texas Association of Future Educators (TAFE) National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Law, Public Safety, Corrections & Security (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Health Science (1 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Firefighter 1 (2 credits)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1,2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Firefighter 2 (3 credits)

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	CPR/AED
Prof Communications (.5 credit)	Basic Structure Fire Protection Certification
Health (.5 credit)	First Aid
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Firefighter	X	X				\$46,016.00
EMT/Paramedic	X	X				\$32,000.00
Firefighter Supervisor	X	X	X	X		\$66,226.00
Fire Investigator	X	X				\$50,404.00
Police, Fire & Ambulance Dispatcher	X					\$37,461.00

Career & Technical Student Organizations
SkillsUSA Texas Public Service Association (TPSA) National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Law, Public Safety, Corrections & Security (1 credit)	911 Emergency Telecommunications
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Law Enforcement 1 (1 credit)	CPR
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Law Enforcement 2 Correctional Services (2 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum in 911 Telecommunications (2 credit) Forensic Science (1 Science credit)	The following courses may be completed at any grade level Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Detective & Criminal Investigator	X			X		\$55,898.00
Police Patrol Officer	X		X	X		\$48,008.00
Transit & Railroad Police	X		X			\$48,597.00
Security Guard	X					\$24,826.00
Bailiff	X					\$34,614.00
Police, Fire & Ambulance Dispatcher	X					\$37,461.00

Career & Technical Student Organizations
Texas Public Service Association (TPSA) SkillsUSA National Technical Honor Society

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Legal Studies / Court Systems

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Law, Public Safety, Correction & Security (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Court Systems & Practices (1 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Criminal Investigations (1 credit)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Practicum in 911 Telecommunications (2 credits) Forensic Science (1 Science credit)

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	CPR
Prof Communications (.5 credit)	911 Emergency Telecommunications
Health (.5 credit)	
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Lawyer					X	\$124,603.00
Judge & Magistrate				X		\$58,599.00
Arbitrator & Mediator				X		\$52,719.00
Court Reporter		X				\$49,307.00
Paralegal			X			\$48,801.00
Law Clerk				X		\$37,400.00
Legal Assistant		X				\$48,801.00

Career & Technical Student Organizations
Texas Public Service Association (TPSA) Texas High School Mock Trial Assoc. National Technical Honor Society

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STEM - Science, Technology, Engineering and Mathematics
Aerospace Engineering

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Intro to Engineering Design PLTW (1 credit) Prof. Communications (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Engineering Science PLTW (1 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Aircraft Technology (3 credits) Aerospace Engineering PLTW (1 credit)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics CAP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Engineering Math (1 credit)

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Autodesk Inventor
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	College Dual Credit - Aircraft Maintenance Technology Program

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Aviation Maintenance Technician			X			\$79,643.00
Aerospace Operations Technician			X	X		\$62,331.00
Robotics Technician			X			\$61,802.00
Aviation Inspector			X	X		\$79,643.00
Aerospace Engineer				X		\$117,335.00
Flight Engineer				X		\$195,478.00

Career & Technical Student Organizations
Technology Student Association National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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STEM - Science, Technology, Engineering and Mathematics
Civil Engineering and Architecture

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Intro to Engineering Design (PLTW) 1 credit and Prof Communications	Inventor Revit
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Engineering Science PLTW	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Civil Engineering & Architecture (PLTW)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Computer Integrated Manufacturing Maker Class (PLTW) or Engineering Math	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Inventor
Prof Communications (.5 credit)	Revit
Health (.5 credit)	
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Industrial Engineer Technologist				X		\$63,020.00
Architectural Drafter				X		\$54,932.00
Civil Drafter				X		\$54,932.00
Civil Engineering Technician		X		X		\$51,634.00
Architect				X		\$98,332.00
Civil Engineer				X		\$100,369.00

Career & Technical Student Organizations
Technology Student Association SkillsUSA National Technical Honor Society

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STEM - Science, Technology, Engineering and Mathematics
Computer Integrated Manufacturing

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Autodesk Inventor
Prof Communications (.5 credit)	Revit
Health (.5 credit)	
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Intro to Engineering Design PLTW (1 credit) Prof. Communications (1 credit)
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Engineering Science PLTW (1 credit)
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Civil Engineering & Architecture (1 credit)
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Computer Integrated Manufacturing PLTW (2 credits)

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Extruding & Drawing Machine Operator	X					\$35,149.00
Industrial Engineer Technician		X	X			\$66,027.00
Machinist				X		\$45,217.00
Manufacturing Sales Rep - Technical Equipment		X				\$70,000.00
Manufacturing Production Technician						\$63,020.00
Manufacturing Engineer				X		\$114,593.00

Career & Technical Student Organizations
Technology Student Association SkillsUSA National Technical Honor Society

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STEM - Science, Technology, Engineering and Mathematics
Digital Electronics

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Intro to Engineering Design (PLTW) 1 credit	Inventor Revit CET - Certified Electronics Technician Microsoft Office Expert: Excel & Word
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Engineering Science (PLTW)	Microsoft Office Expert: Excel & Word
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Digital Electronics (PLTW)	Microsoft Office Specialist (MOS) Master
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	Microsoft Technology Associate ISCET - Certified Electronics Technician

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Avionics Technician			X			\$55,969.00
Electrical Digital Computer Mechanic			X			\$61,802.00
Field Service Printer Technician	X	X				\$46,027.00
Quality Assurance Analyst Technician				X		\$90,573.00
Industrial Journeyman Service Technician	X	X				\$66,027.00
Electrical Engineer				X	X	\$104,667.00

Career & Technical Student Organizations
Technology Student Association SkillsUSA National Technical Honor Society

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	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certification Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Principles of Information Technology (1 credit) Prof. Communications (1 credit)	Autodesk Inventor Revit
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Engineering Science PLTW (1 credit) Intro to Engineering Design PLTW (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Robotics 1 (1 credit) Web Technologies (1 credit)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Robotics 2 (1 credit) Computer Programming (1 credit)	

Courses Required for Graduation	Potential Certification Opportunities
<i>The following courses may be completed at any grade level</i>	Autodesk Inventor
Prof Communications (.5 credit)	Revit
Health (.5 credit)	
Fine Arts (1 credit)	
Language other than English (2 credits)	
Physical Education (1 credit)	
Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Robotics Technician			X			\$61,802.00
Computer Programmer				X		\$86,205.00
Manufacturing Production Technician		X				\$63,020.00
Industrial Engineer Technician			X			\$66,027.00
Industrial Machine Mechanic		X				\$55,102.00
Robotics Engineer				X		\$114,593.00

Career & Technical Student Organizations
First Robotics
Best Robotics
National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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Rocket Engineering

	Language Arts	Math	Science	Social Studies	CTE Courses for Endorsement	Potential Certifications Opportunities
9th	English 1/ Pre-AP English 1 EOC	Algebra 1/ Pre-AP Algebra 1 EOC	Biology/ Pre-AP Biology/ + IPC EOC	World Geo/AP Human Geo/ Pre-AP W. Geo or Endorsement/ Course Elective	Intro to Engineering Design PLTW (1 credit) Prof. Communications (1 credit)	Autodesk Inventor
10th	English 2/ Pre-AP English 2	Geometry/ Pre-AP Geometry	IPC Chemistry/ Pre-AP Chemistry or Advanced Science	World History/ Pre-AP, AP W. History or Endorsement Course/Elective	Engineering Science PLTW (1 credit)	
11th	English 3/ AP English 3	Algebra 2/ Pre-AP Algebra 2	Physics/ AP Physics or Advanced Science	U.S. History/ AP U.S. History/ Dual	Rocket Engineering 1/ Scientific Research & Design (2 credits)	
12th	4th English/ AP English 4 Dual	Stats/AP Stats Stats-Bus Decision Making Elem Stats 1/2 (Dual) Pre-Calc/Pre-AP Calc Calc AB AP/Calc BC AP Engineering Math AP Computer Science College Algebra (Dual) Adv Quantitative Reasoning	AP Physics 2/ Physics C AP/ Rocket Eng. 1 & 2/ Engineering Science/ AP Chemistry/ AP Biology	Government Economics/ OR AP Government/ AP Economics OR Dual Government/ Dual Economics	Rocket Engineering 2/ Engineering Design & Problem Solving (2 credits)	

Courses Required for Graduation	Potential Certifications Opportunities
<i>The following courses may be completed at any grade level</i>	Autodesk Inventor
Prof Communications (.5 credit) Health (.5 credit) Fine Arts (1 credit) Language other than English (2 credits) Physical Education (1 credit) Technology (.5 credit)	

Sample Career Opportunities	On Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary
Aviation Maintenance Technician			X			\$79,643.00
Aviation Inspector			X			\$79,643.00
Flight Engineer				X		\$195,478.00
Robotics Engineer			X			\$61,802.00
Aerospace Operations Technician				X		\$62,331.00
Aerospace Engineer				X		\$117,335.00

Career & Technical Student Organizations
Technology Student Association SystemsGo National Technical Honor Society

ASSURANCE OF NONDISCRIMINATION

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PROGRAMS FOR ACADEMICALLY TALENTED STUDENTS

Birdville ISD secondary-level schools provide curriculum offerings for students with academic talents and abilities. Counselors in each secondary school assist these students by assessing their strengths and weaknesses and by exploring their goals as they select their courses each year.

GIFTED/TALENTED PROGRAM

Birdville ISD offers programs for gifted/talented students in grades K-12. Information concerning participation in the gifted/talented program may be obtained from the Office of Advanced Academics. At the high school level, gifted/talented students are served primarily through Honors/Pre-Advanced Placement, Advanced Placement, Dual Credit, and Advanced CTE courses.

PRE-ADVANCED PLACEMENT/ADVANCED PLACEMENT PROGRAM

Teachers, Academic Coaches, and Academic Deans will be asked to evaluate a student's readiness to learn and task commitment prior to enrollment in Honors/Pre-AP and AP courses. This evaluation will not determine denial of placement in a Honors/Pre-AP or AP course; however, students who do not receive a recommendation for placement may be required to meet with a counselor/administrator to discuss the challenges and the commitment these advanced level courses require. Birdville ISD believes it is vital for students to have every opportunity to excel academically through rigorous and challenging courses. Honors/Pre-Advanced Placement (Pre-AP) and Advanced Placement (AP[®]) courses offer options to excel in many areas of study. Students and parents should expect these courses to be more challenging, fast-paced, robust in information requiring college-level independent reading, composition, reasoning and academic discussion.

Both Honors/Pre-Advanced and Advanced Placement courses are designed to meet the needs of gifted and talented students as well as highly motivated learners. These courses are designed to prepare and inspire students to succeed in a future they create. The goal of the Honors/Pre-AP/AP program is to challenge and stimulate students to the highest level of their ability.

Honors/Pre-Advanced Placement courses prepare students for success on the state required academic curriculum and help build student capacity to understand rigorous content. Honors/Pre-AP Courses provide foundational skills which lead students to success in AP[®] courses. Students are encouraged to enroll in Honors/Pre-AP courses to begin their path for advanced options.

Advanced Placement courses are designed to prepare students for success on the College Board AP[®] exam. The Advanced Placement Program (AP[®]) is a collaboration among dedicated students, teachers, parents, high schools, and institutions of higher education. AP[®] provides students an opportunity to take college-level courses and exams with the potential to earn college credit or placement while still in high school. Each course has a corresponding exam administered annually in May. Some courses require portfolios or digital performance tasks.



The courses are rigorous; fast paced, and require extensive reading and writing as college credit may be earned with a qualifying score on the AP exam. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. The content and resources used are at the college level and cover content that is required by the College Board.

Advanced Placement Examination

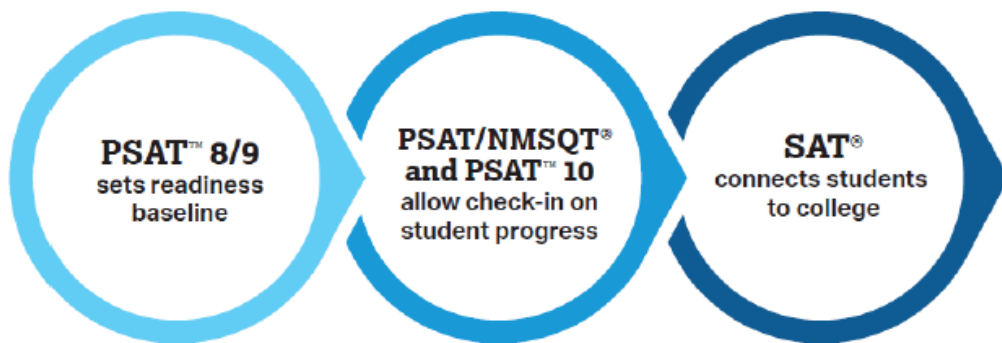
Advanced Placement Examinations are based upon college-level courses taught in high school. They may enable the student to receive college credit, advanced placement in college, or both. Scores are reported on a five-point scale with five being the highest score. A minimum score of 3 or higher will be awarded credit by all Texas public universities per TX HB-1992(except in rare cases where a higher score is required on prerequisite courses or as determined by the Chief Academic Officer). All private and out-of-state colleges and universities reserve the right to award or deny credit for AP exams scores. It is highly recommended that students contact higher education institutions to determine what scores/courses will qualify for credit(<https://apstudent.collegeboard.org/creditandplacement/search-credit-policies>). By exempting several freshman level courses in this way, a student may realize substantial cost savings in college. AP teachers, administrators, deans and counselors will advise students about AP courses and exam administration. Students enrolled in an AP course are required to take the corresponding AP Exam in May as outlined by the College Board AP exam calendar(<https://apstudent.collegeboard.org/takingtheexam/ap-calendar>).

Participation in Honors/Pre-AP and AP courses is open to all students, however, students must sign commitment statements acknowledging the expectations to the level of work that meets course standards. Components of these courses include: increased reading, sophisticated writing assignments, and projects or labs with complex problem solving. Enrollment into these courses should be based on interest and ability since the curriculum requires more advanced and intensive work.

Recommended guidelines have been designed to aid students and parents in selecting the course in which a student will most likely succeed. Teachers, counselors, and parents should counsel students to make selections that will compel the student to excel and that are academically appropriate.

College Board Opportunities

The College Board offers an early participation program in which Birdville ISD participates. This provides an opportunity for all 8th grade students to take the PSAT 8/9 assessment, all 10th and 11th grade students to take the PSAT/NMSQT assessment, and 11th and 12th grade students to opt in to the SAT School Day. Early participation has many student benefits including college preparation, additional fee waivers, potential college credit, and opportunities for notable award categories.



Any student that takes an SAT suite assessment (PSAT 8/9, PSAT/NMSQT, SAT) has access from College Board to the following:

K-12 Assessments Score Reporting Portal- Digital student score reports which include total score, evidence based reading & writing (EBRW) and mathematics (M) section scores, test scores in reading, writing and language and mathematics, and includes a college readiness benchmark percentage per section.

Khan Academy™ - free, online tool tailored for individual SAT practice accompanied by interactive problems and instant feedback, video lessons, full length practice tests, and development of a personalized study plan based on student performance.

AP Potential™ - free web-based tool which identifies specific Advanced Placement courses in which a student will likely be successful.

Road Trip Nation - free interest-based career exploration portal including a 3,000 word plus video interview archive, representing various industries and occupations with real-life role models and a personalized course planner with action steps and post assessments.

Advanced Level Course Enrollment

- If student has taken PSAT 8/9 or PSAT/NMSQT review AP Potential to see specific courses for which there is a likelihood for success.
- Demonstrate successful completion of previous course taken in the subject area (i.e. 80% or higher as semester averages and/or advanced measure on EOC and a qualifying score of 3 or higher on an AP exam from a previous course).
- Achieved Commended performance or Advanced Measure on EOC/STAAR.
- Meet all course pre-requisites as delineated in the Planning Guide.
- Commit to the extra time necessary for class preparation: increased outside reading, sophisticated writing assignments, and projects, labs or performance tasks with complex problem solving.
- Seek teacher, dean and/or counselor advisement on registering for class.
- Maintain a passing grade.
- Commit to meeting all AP Exam requirements.

While the aforementioned are recommendations, Birdville ISD adhere's to the College Board's Equity and Access Policy Statement which encourages "the elimination of barriers that restrict access to AP for students from ethnic, racial and socioeconomic groups that have been traditionally underserved."



CREDIT BY EXAMINATION (*WITHOUT PRIOR INSTRUCTION*)

Credit by Examination (without prior instruction)

A district shall give a student in grades 6–12 credit for an academic subject in which the student has received no prior instruction if the student scores:

1. A three or higher on a College Board advanced placement examination that has been approved by the board for the applicable course;
2. A scaled score of 50 or higher on an examination administered through the College-Level Examination Program (CLEP) and approved by the board for the applicable course; or
3. Eighty percent or above on any other criterion-referenced test approved by the board for the applicable course.

If a student is given credit in a subject on the basis of an examination on which the student scored 80 percent or higher, a district shall enter the examination score on the student's transcript and the student is not required to take an end-of-course (EOC) assessment instrument under Education Code 39.023(c) for the course.

The Credit by Exam is offered no fewer than four times each year. Dates for applications and testing are posted on the Advanced Academics web-site annually. A student may not attempt to earn credit by examination for a specific high school course more than two times.

If a student fails to earn credit by examination for a specific high school course before the beginning of the school year in which the student would ordinarily be required to enroll in that course in accordance with the district's prescribed course sequence, the student must satisfactorily complete the course to receive credit for the course. [EIC (legal)]

A student may request a credit by exam with prior instruction to make up for lost credit by contacting the campus counseling office.



AP CAPSTONE DISTRICT

Students typically take AP Seminar in grade 10 or 11, followed by AP Research. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate.



BISD OFFERS THE FOLLOWING AP CLASSES FOR THE 2020-2021 SCHOOL YEAR

ENGLISH

English Language and Composition
English Literature and Composition

SOCIAL STUDIES

United States Government
European History
Macroeconomics

United States History
World History
Psychology
Human Geography

SCIENCE

Biology Chemistry
Physics 1 Physics 2
Physics C Environmental Science

LANGUAGES

Spanish Language
French Language

Chinese Language
Spanish Literature
Latin

MATH

Calculus AB Calculus BC
Statistics Computer Science A

FINE ART

Studio Art
Art 3-D Design

Art History
Art 2-D Design
Music Theory

ELECTIVES

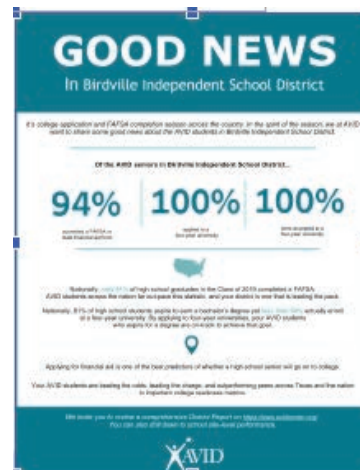
Capstone Seminar
Capstone Research
Computer Science Principles

HIGH SCHOOL ACADEMIC PLANS

Birdville Independent School District, parents, teachers and our community are heavily invested in the success of all BISD students. Whether a student's goal after graduating from high school is to go on to college, technical school, the military or begin a career, BISD has implemented plans that specifically benefit the choices students make and these plans begin in the sixth grade.

BISD middle schools have a variety of options for students to explore in the areas of fine arts, technology, performing arts and foreign languages. Building on these experiences, students are able to make an informed choice in selecting courses they will take in high school.

The State of Texas funds numerous programs to better educate and enhance hands-on learning in the classroom, workplace, and laboratory environments. The following pages provide sample plans from which students may base their high school class choices.



AVID (ADVANCEMENT VIA INDIVIDUAL DETERMINATION)

AVID is a college readiness system for elementary through higher education established in 1980 and designed to increase school-wide learning and performance. The AVID College Readiness System (ACRS) accelerates student learning, uses research based methods of effective instruction, provides meaningful and motivational professional learning, and acts as a catalyst for systemic change.

AVID is implemented in more than 7,000 schools in 47 states across the U.S., plus schools in Department of Defense Education, Canada, and Australia. AVID impacts nearly 2 million students in grades K–12 and 62 post-secondary institutions. AVID's mission is "to close the achievement gap by preparing all students for college readiness and success in a global society." AVID Schoolwide domains include instruction, systems, leadership and culture. Additionally, in the most recent AVID Senior Data (2019), Birdville ISD is recognized by AVID Center with 100% acceptance to four year higher education institutions and 94% FASFA or state financial aid form submission as compared to 61% nationally.

Birdville ISD currently has 6 AVID Schoolwide sites: Haltom Middle School, North Oaks Middle School, Richland Middle School, Watauga Middle School, Collegiate Academy of Birdville, and Haltom High School. In 2015, Haltom High School was named an AVID National Demonstration School and revalidated in 2018. AVID National Demonstration Schools are model centers for teaching and learning. National Demonstration Schools exhibit an evident college readiness system school-wide through rigor and high expectations for all students.

HONOR GRADUATES

Summa Cum Laude- all numerical semester grades 90 or above during grades nine, ten, and eleven; the first semester of grade twelve; and the average of the numerical grades of the fourth and fifth six-weeks of grade twelve.

Magna Cum Laude- 75% of the numerical semester grades 90 and above, with no numerical semester grades below 80, during grades nine, ten, and eleven; the first semester of grade twelve; and the average of the fourth and fifth six-weeks of grade twelve.

Cum Laude- 75% of the numerical semester grade 90 and above, with no numerical semester grades below 70, during grades nine, ten, and eleven; the first semester of grade twelve; and the numerical average of the fourth and fifth six-weeks of grade twelve.

Collegiate Academy of Birdville

at Haltom High School



What is the Collegiate Academy?

The Collegiate Academy of Birdville is an innovative high school that serves students who are ready and eager to take on rigorous college work while still in high school. The Academy changes the structure of the high school years, so students earn both a high school diploma and an Associate's degree upon graduation from high school. This school is made possible through a partnership with Tarrant County College, Northeast Campus.

Profile of a Collegiate Academy Student

- Dreams of becoming the first person in their family to attend college
- Needs help overcoming barriers that might keep them from attending college
- Accepts the challenge of advanced coursework (Pre-AP, AP, College)
- Participates in support systems such as Summer Bridge courses and tutorials
- Serves the community through service learning projects
- Seeks a non-traditional learning environment

Collegiate Academy Focus



9th and 10th grade located at Haltom HS; 11th and 12th grade located at TCC, Northeast Campus



Each student will be provided a technology device



Strong partnership between BISD and Tarrant County College, Northeast Campus



Students will be able to participate in Fine Arts and Athletics at Haltom HS



No cost to students for college tuition or books



Support for academic and social and emotional needs of students



birdvilleschools.net/CAB

5501 North Haltom Road • Haltom City, 76117 Phone: 817-547-5700

DISTINGUISHED LEVEL OF ACHIEVEMENT

To earn a distinguished level of achievement a student must successfully complete the curriculum requirements for at least one endorsement, including 4 credits in science and 4 credits in mathematics to include Algebra 2 (**26 credits**).

PERFORMANCE ACKNOWLEDGEMENT

A student may earn a performance acknowledgement on their transcript for outstanding performance on any of the following:

- Completing at least 12 hours of college academic courses including those taken for dual credit and advanced technical credit.
- In bilingualism and biliteracy
- On a college AP or IB exam
- On the PSAT, ACT-PLAN, SAT or ACT
- For earning a nationally or internationally recognized industry certification

PROJECT LEAD THE WAY

Project Lead The Way (PLTW) – Project Lead The Way’s comprehensive curriculum for engineering sciences promotes critical thinking, creativity, innovation and real-world problem solving skills in students. Many universities provide the opportunity to receive college credit for PLTW courses, when two or more courses are completed at the high school level. Credit earned can increase the student’s registration priority for collegiate level courses.

**Weighted credit for students entering 9th grade in 2018-2019 and beyond.*



BISD engineering partners include:

Aerotek CE	Allegis Group	American Airlines
Amwell Fabrication Services	Bell	Burlington Northern Santa Fe (BNSF)
Component Construction Co., Ltd.	Exxon Mobile	Lockheed Martin
Medtronics	Northrop Grumman	R&G Consulting Engineers
		Vellerman, Inc.

ADVANCED TECHNICAL CREDIT

The **Advanced Technical Credit (ATC)** program can help students earn college credit in an enhanced version of a normal high school course, taught by a teacher who has had special training. If you take the ATC course as a junior or senior and earn a grade of 80 (3.0) or better, the ATC course may also count as a performance acknowledgement. To qualify, enroll in an ATC course as a junior or senior and complete the course with a minimum grade of 80 (B or better). If there are prerequisites for the ATC course, you must make a minimum grade of 80 in each required course. Freshmen and sophomores must take additional ATC courses as a junior or senior to qualify for college credit. The courses are designated on the high school transcript.



NATIONAL HONOR SOCIETY



Procedures for Membership

Membership in the Haltom High School, Richland High School and Birdville High School Chapters of National Honor Society (NHS) is an honor bestowed upon individual students by the faculty council on behalf of the faculty and administration. Selection is based on four criteria: scholarship, leadership, character and service. Qualified students in residence all of the semester preceding the selection process shall be considered for membership. For more detailed information please see www.nhs.us.

1. Student academic records shall be reviewed to determine scholastic eligibility. A list of eligible students shall be posted for one designated week. Students (both juniors and seniors) will be invited to become members of the NHS during the fall.
2. A student must have an accumulative weighted numerical grade average of ninety-two beginning with the ninth grade to be eligible scholastically.
3. Scholastically eligible students may obtain and complete a Student Activity Information Form as the next step in the selection process. All students desiring consideration for membership shall return the information by the designated deadline.
4. All faculty members shall be offered the opportunity to give input on eligible candidates in the areas of service, character and leadership and shall be on a yes/no basis in these areas. The majority vote of the faculty council shall represent the ultimate selection for chapter membership as required by the National Constitution .
5. The five members of the faculty council, appointed by the principal, shall make final selections after Student Activity Information Forms (in #3 above) and the faculty recommendations.
6. Students selected for membership shall be notified by written invitation.
7. Students who question their non-selection shall request and receive an opportunity to present their opinions to a committee consisting of the principal, advisor and five member faculty council and may be accompanied by their parent(s).

Philosophy for Selection/Non-Selection of Members

The philosophy for the selection/non-selection of members to the NHS in the high schools of BISD has been guided by the standards for selection/non-selection set forth in the NHS Handbook. The following are excerpts from the Handbook that govern selection/non-selection.

Selection

- *Students may not apply for membership in the National Honor Society. Membership is granted only to those students selected by the faculty council in each school.*
- *Membership should never be considered on the basis of grades alone, even though a faculty council may consider scholarship as the most important of the four criteria.*
- *In evaluating potential members for leadership, service and character, the faculty council develops working definitions of these criteria. The leadership criterion is considered highly important for membership selection. Some faculty councils may wish to interpret leadership in terms of number of offices a student has held in school or community organizations, although it is important to recognize that leadership also exists outside of elected positions. Leadership roles in both the school and community may be considered, provided they can be verified.*
- *The criterion of service is often defined in terms of value of contributions. Common questions are: What contribution has the candidate made to school, classmates and community? What is the student's attitude toward service? All judgments should be free of hearsay and rumor.*

Non-Selection

- *Chapters are not obligated, however, to share with parents and students information concerning specific students not selected for membership in the Society. Technical errors might include the inadvertent omission of a student's name from the list of those qualified for induction, the erroneous averaging of grades, or the like.*
- *The principal must choose five persons in addition to the faculty advisor to serve on the faculty council in whom he/she can place a high degree of trust.*
- *In the absence of specific evidence to the contrary, however, the principal must assume that the members of the council are exercising their discretion in a legitimate manner and with the good faith expected of them.*
- *Reconsideration of a faculty council's decision must be a rare occurrence if the council is to be expected to take its assignment seriously. It is important to uphold the integrity of Society standards and to recognize the potential danger of yielding to pressure tactics.*



NATIONAL TECHNICAL HONOR SOCIETY

Procedures for Membership

Membership in the Birdville chapter of the National Technical Honor Society (NTHS) is an important career investment recognized by education, business and industry. Applications for membership are accepted during your Junior and Senior year. Becoming a member of NTHS adds prestige to your professional portfolio, online educational and career resources, potential recruitment opportunities and eligibility in scholarships worth \$120,000.

Students considered for membership must meet the following qualifications:

1. Have an overall GPA of 3.0 or above (*approximately an 87 on a 100 point scale; a Career and Technology Education (CTE) counselor must verify*)
2. Classified as Juniors or Seniors
3. Currently affiliated w/ National CTSO, participate above local level (*district, region, state, national*)
4. Complete two CTE courses by or during the semester nominated (*One course completed in high school*)
5. Good, honest, responsible student-citizens who have made a personal commitment to excellence and who agree to uphold the NTHS Standards of Conduct
6. Meet attendance standards set by BISSD
7. Complete five service hours per semester, ten annually
8. Submit a one-time \$25.00 membership fee, annual dues assessed

Membership in NTHS shows a personal commitment to workforce or scholastic excellence and demonstrates a pledge to uphold the NTHS Standards of Conduct.

Maintain the highest standard of personal and professional conduct at all times;

Strive for excellence in all aspects of education and employment;

Refuse to engage or condone activities for personal gain at the expense of fellow students, school or employer;

Support the purposes of NTHS while working to achieve the objectives and goals of the Society;

Uphold obligations as a citizen of the community and the country.



CAREER AND TECHNOLOGY EDUCATION



COLLEGE AND CAREER READINESS

Career and Technology Education courses allow students to use academic knowledge and problem solving skills while acquiring occupationally specific skills as part of their high school curriculum. As technology has enhanced access, variety and exchange of information, completion of high school may not follow the traditional route to postsecondary institutions. The state of Texas implemented Career and Technology Education as a means to expand and achieve competency-based learning. Various types of programs are offered: laboratory program classes, practicums, internships and a variety of courses centered on technology.

CERTIFICATIONS AND LICENSURES

Students have the opportunity to earn industry-recognized certifications and licensures, leading to either more specialized instruction in a given field, or a leap forward on the path of postsecondary education. Industry certifications are gaining importance in the business world as evidence of skill attainment. Earning a certification gives students a sense of accomplishment, a highly valued professional credential, and helps make them more employable with higher starting salaries. Industry certifications have been aligned with the Career Pathways. Certification opportunities are one avenue through which Career and Technology Education fulfills its goals under state law. The Texas Education Agency is trying to provide as many opportunities as possible for students' professional growth and development. CTE continues consultations with local business and industry to determine which certifications or licenses would be most sought after by area employees.

ENDORSEMENT AREAS OF STUDY

The Endorsement's approach in selection of high school courses of study for students bring associated courses and fields of career interest together. By choosing an endorsement to follow, students have the opportunity to explore the real "world of work" through practicum programs as paid or unpaid interns. Our Advanced Technical Credit (ATC) program is giving students college credit for courses taken within a pathway while in high school. CTE is a great way for students to prepare for the highly technological and competitive workplace of the 21st century.

STUDENT ORGANIZATIONS

CTE has active student organizations involved in state and national competitions. Students are encouraged to join an organization associated with their career interest to practice the skills and knowledge gained in the lab and classroom setting. CTE students regularly compete and advance in nationally recognized competitions. BISD is fortunate to have students holding state and national offices in the past and present, highlighting the success of these initiatives.

CAREER AND TECHNOLOGY

STUDENT ORGANIZATIONS



Business Professionals of America (BPA) is the premier CTSO (Career and Technical Student Organization) for students pursuing careers in business management, office administration, information technology and other related career fields. The Mission of Business Professionals of America is to contribute to the preparation of global professionals through the advancement of leadership, citizenship, academic, and technological skills.

DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management in high schools and colleges around the globe. DECA enhances the preparation for college and careers by providing co-curricular programs that integrate into classroom instruction, applying learning in the context of business, connecting to business and the community and promoting competition.



Family, Career and Community Leaders of America (FCCLA) - the only national Career and Technical Student Organization with the family as its central focus. Chapter projects focus on a variety of youth concerns, including teen pregnancy, parenting, family relationships, substance abuse, peer pressure, environment, nutrition and fitness, teen violence, and career exploration.

The National FFA Organization (also known as Future Farmers of America). Agricultural Education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. Today, we are still the Future Farmers of America, but, we are the Future Biologists, Future Chemists, Future Veterinarians, Future Engineers and Future Entrepreneurs of America, too.



HOSA is a national student organization that provides a unique program of leadership development, motivation, and recognition. HOSA is 100% health care! The rapidly changing health care system needs dedicated workers who, in addition to their technical skills, are people-oriented and capable of playing a leadership or followership role as a member of a health care team.

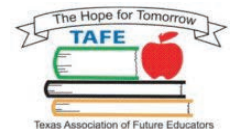


The **National Technical Honor Society** encourages higher scholastic achievement, cultivates a desire for personal excellence, and helps top students find success in today's competitive workplace. **NTHS** is committed to creating new and emerging relationships between the educational community and business and industry.



SkillsUSA, prepares for leadership in the world of work. This organization is dedicated to developing a confident and intelligent workforce. Each year SkillsUSA hosts volunteer activities and regional, state and national competitions. Community service and the national Program of Work are two areas of SkillsUSA that are vital to the organization.

TAFE is a statewide organization that offers students the opportunity to explore the teaching profession. We accomplish this by creating and supporting various activities, workshops, contests, scholarships and summer workshops.



TSA (Technology Students Association) hosts competitions featuring problems in communications, design and engineering, environmental systems, manufacturing/construction, and transportation. Categories include: **Engineering Alliance**– designed for Project Lead The Way (PLTW). **TSA VEX Robotics Competition**– the latest in robotics education. **TEAMS**- challenges students to work collaboratively to solve engineering problems.

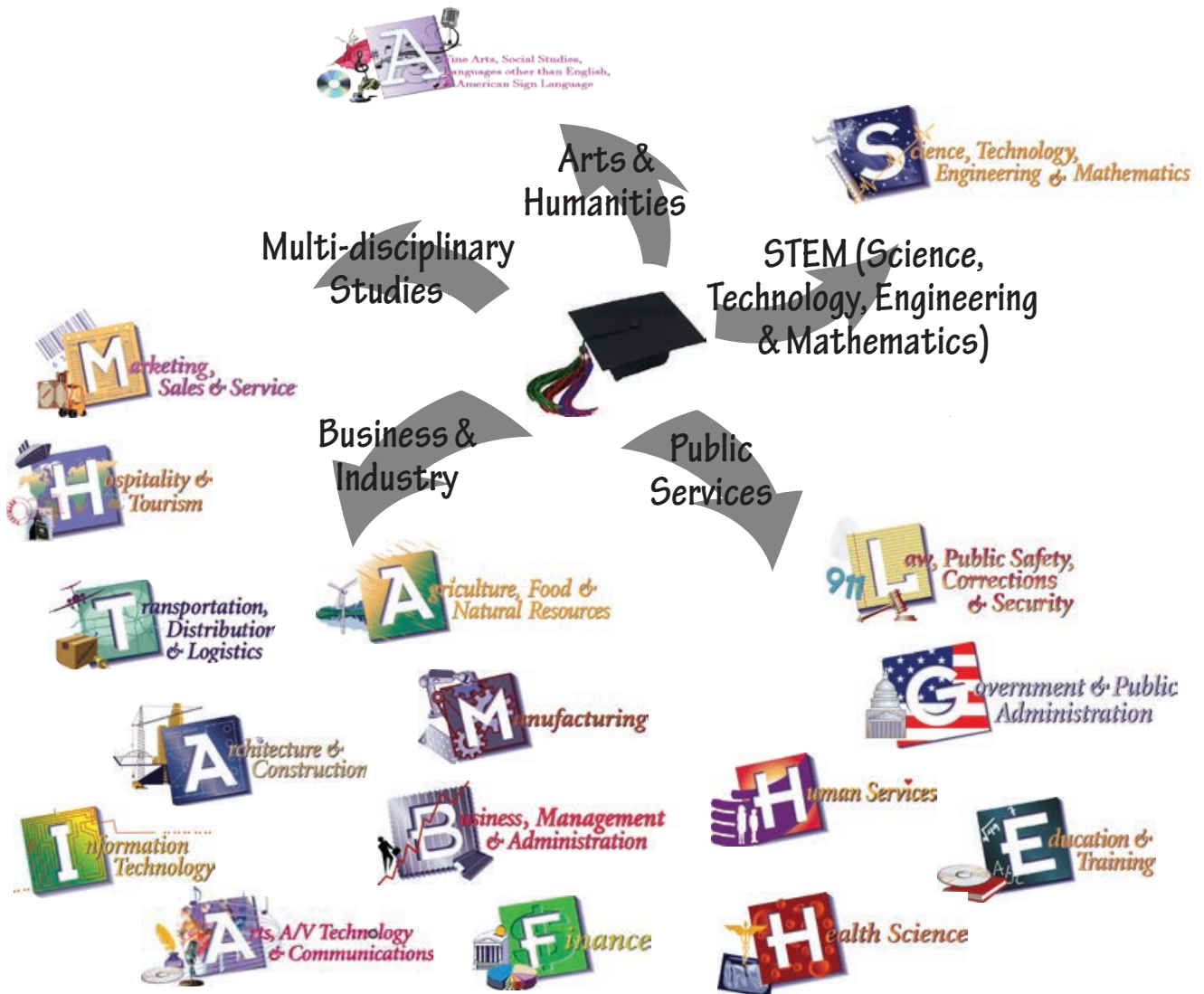
CHOOSE YOUR ENDORSEMENT AREA OF STUDY

SELECTING COURSES

BISD encourages students to take ownership of their success in high school. Students will be given the opportunity to create a schedule of classes during the spring at their home campus. All schedules will be reviewed by the campus guidance counselors. At times the situation will arise where a class is not offered during a semester due to interest or procedural change at the state level. Therefore, students may find an updated or slightly altered class schedule when they register in August for the new school year.

**BEGIN
PLANNING
HERE!**

When schools integrate academic and technical education, students can see the “usefulness” of what they are learning.



Endorsements

Texas CTE Resource Center is designed to help students (and their parents) make wise education choices. It is based on the belief that the curricula of the 21st century should combine rigorous academics with relevant career education. www.txcte.org

ART



WHERE CAN I GO WITH ART?

HS Diploma/ On-the-Job Training	Background Artist, Drafting Technician, Layout Artist, Merchandise Display, Photographer/Camera Operator, Retail Salesperson, Sculptor, Sign Maker, Artist
Jr/Technical/ Community College or Apprenticeship	Advertising Designer, Animator, Art Historian, Commercial Artist, Dark Room Asst., Drafting Technician, Fashion Designer/Illustrator, Interior Designer, Jewelry Designer, Landscape Artist, Photographer, Police Sketch Artist, Special Effects Artist, Technical Illustrator
Bachelor's or Master's Degree, Doctorate	Animator, Architect, Art Therapist, Conservator, Art Director, Studio Director, Fashion Designer, Fine Artist, Floral Designer, Gallery Director, Game Designer, Graphic Designer, Illustrator, Industrial Designer, Interior Designer, Jewelry Designer, Multimedia Art & Animator, Photographer

HOW CAN I GAIN EXPERIENCE?

School Activities

Art Club, Decorating Homecoming and other Events, Design Classroom Bulletin Boards, FCCLA- Family Career & Community Leaders of America, School-sponsored Public Art Project, Student Art Shows

Community Activities

Museum Volunteer, Poster Designer, Set Painter for Community Theater

College Majors

Visual/Performing Arts, Commercial/Advertising Art, Commercial Photography, Design & Visual Communications, Fashion Design, Game and Interactive Media Design, Graphic Design Illustration, Product Design, Interior Design, Fine and Studio Art, Art History, Criticism, and Conservation Arts, Ceramics, Textile, and Weaving Arts, Metal and Jewelry Arts, Painting, Printmaking, Sculpture, Studio Arts



BISD Related High School Courses

- AP Art History
- Drawing
- Sculpture
- Ceramics
- Two Dimensional Design
- Three Dimensional Design
- Graphic Design and Illustration
- Animation
- Fashion Design
- Floral Design
- Professional Communications
- Digital and Interactive Media
- Photojournalism
- Fashion Merchandising & Marketing
- Interior Design

INSTRUMENTAL MUSIC



WHERE CAN I GO WITH INSTRUMENTAL MUSIC?

HS Diploma/ On-the-Job Training	Composer/Arranger for Local Groups, Community Choir Conductor, Music Store Employee, Musician, Recording Technician, Instrument Repairman
Junior/Technical/ Community College or Apprenticeship	Booking Agent, Composer/Arranger, Copyist, Director of Studio or Technical Group, Piano Tuner, Organ Builder or Technician, Radio DJ, Road Crew for Music Tour Group, Studio Musician, Symphony Orchestra Member
Bachelor's Degree/ Master's Degree/ Doctorate	Instrument Line Designer, Major Symphony Orchestra Conductor, Music Theory or Composition Music Teacher, Music Therapist, Music Critic, Performance Hall Manager, Electronic Music, Radio/TV Recording Artist, Orchestral Soloist

HOW CAN I GAIN EXPERIENCE?

School Activities

Music Technician Presentations, UIL Solo/Ensemble Contests, Band Instrument Equipment Manager, School Talent Show Participant

Community Activities

Band or Orchestra Member, Local Concert Promoter, part-time Choral Director, Music Store Employee, Radio Station Employee, Theatre Orchestra Member

College Majors

Brass Instruments, Conducting, Jazz Studies, Keyboard Instruments, Music, Music History, Literature & Theory, Musicology & Ethnomusicology, Music Pedagogy, Music Performance, Music Technology, Music Theory & Composition, Percussion Instruments, Stringed Instruments, Voice & Opera, Woodwind Instruments



BISD Marching Bands

BHS:

Mighty Hawk Band

HHS:

The Pride of Haltom

RHS:

Richland Rebel Band



BISD Related High School Courses

- Professional Communications
- Audio Video Production
- Web Technologies
- Band I-IV
- Jazz Band I-IV
- Instrumental Ensemble I-IV
- Choral Music I-IV
- Vocal Ensemble I-IV
- Advanced Audio Production
- Practicum Audio Production
- AP Music Theory

THEATRE ARTS AND DANCE



WHERE CAN I GO WITH THEATRE ARTS AND DANCE?

HOW CAN I GAIN EXPERIENCE?

HS Diploma/ On-the-Job Training	Children's Theatre Director, Community Theatre Costume Designer, Local Theatre Productions, Sound Technician, Special Effects Worker, Theatre Ticket Salesperson
Jr/Technical/Community College or Apprenticeship	Agent, Community Theatre Dancer or Repertory Theatre Director, Community Theatre Manager, Community Theatre Teacher, Lighting Design Technician, Movie Theatre Manager, Public Relations Producer, Set Designer for Community Plays
Bachelor's Degree or Master's Degree, Doctorate	Actor, Commercial Advertiser, Dance Teacher, Designer for Stage/Screen, Music Video Artist, Dance Choreographer, Professional Director, Professional Speaker, Theatre Teacher, Special Effects/TV Performer

School Activities
UIL Competitions, Talent Shows, Technical Crew for Assemblies, Theatre Productions, Musicals, Sound Track Designer, School Auditions

Community Activities
Benefit Performances, Children's Theatre Workshops, Church Drama Director, Community Theatre Crew, Dancing/Acting Workshops, Six Flags Productions, Sound Engineer, Dance Recitals

College Majors
Ballet, Costume Design, Dance, Directing and Theatrical Production, Musical Theater, Playwriting and Screenwriting, Theater Arts, Theater Design & Stagecraft, Theater Literature, History, Criticism

BISD DRILL TEAMS:

BHS Golden Motion

HHS Highsteppers

RHS Dixie Belles



BISD Related High School Courses

- Theatre Arts I-IV
- Technical Theatre I-IV
- Audio Video Production
- Web Technologies
- Digital Interactive Media
- Advanced Video Production
- Construction Technology
- Interior Design
- Fashion Design
- Dance I-IV
- Drill Team



VOCAL MUSIC



WHERE CAN I GO WITH VOCAL MUSIC?

<p>HS Diploma/ On-the-Job Training</p>	<p>Back-Up Recording Vocalist, Director of Church or Children's Chorus, Recording Technician, Minor Roles in Opera, Opera Chorus Member, Local Choir, Composer</p>
<p>Jr/Technical/ Community College or Apprenticeship</p>	<p>Arranger, Back-Up Recording Vocalist, Composer, Conductor, Copyist, Director of Professional Chorus, Minister of Music, Music Librarian, Opera Roles, Performing Artist, Radio/TV Performer, Recording Artist, Sound Technician, Voice-overs</p>
<p>Bachelor's Degree, Master's Degree or Doctorate</p>	<p>Booking Agent, Career Roles in Opera/Broadway, Military Chorus, Music Therapist, Music Critic, Tour Organizer/Promoter, Private Vocal Instructor, Professional Conductor, Professional Mixer, Radio/TV Producer</p>

HOW CAN I GAIN EXPERIENCE?

Community Activities

Benefit Performances, Community Theatre Productions, Local Competitions, Mentoring, Six Flags Productions, Technician Local Productions

School Activities

School Talent Shows, Show Choir Productions, Student/Solo Ensemble, Accompanist, UIL Competition, Music Enrichment Lessons

College Majors

Conducting, Jazz Studies, Music, Music History, Literature & Theory, Musicology and Ethnomusicology, Music Pedagogy, Music Performance, Music Technology, Music Theory & Composition, Percussion Instruments, Stringed Instruments, Voice and Opera Woodwind Instruments



BISD VOCAL GROUPS

BHS

Bel Canto, Cantori, JV Men, Allibon, Chorale, Varsity Men, Varsity Women, Vocal Edition

HHS

Camerata, Chordsmen, Choraliers, Chorale, A cappella Choir, Bella Voce, Haltom Singers, Haltom Harmony, Varsity Men

RHS

Chorale, Rebellaies, Rebel Women, Rebel Men, Bel Canto, Southern Belles, Southern Harmony



BISD Related High School Courses

- Professional Communications
- AP Art History
- Choral Music I-IV
- Vocal Ensemble I-IV
- Audio Video Production
- Advanced Audio Production
- Practicum Audio Production
- Marketing Dynamics
- Entrepreneurship



COMMUNICATION AND JOURNALISM



WHERE CAN I GO WITH COMMUNICATION AND JOURNALISM?

HS Diploma/ On-the-Job Training	Advertising Intern, Author, Circulation Assistant, Editor's Assistant, Graphic Arts Assistant, Newspaper Intern, Public Relations Intern, Radio Intern, TV News Intern.
Jr/Technical/Community College or Apprenticeship	Author, Illustrator, Layout Designer, Photojournalist, Printer, Proofreader, Copy editor, Technical Writer
Bachelor's Degree or Master's Degree, Doctorate	Advertising Salesperson/Executive, Author, Publisher, Columnist, Consumer Relations Specialist, Editor, Editorial Writer, Graphic Designer, Teacher, Magazine Editor, Multimedia Specialist, Public Relations Consultant, Promotions Coordinator, Publicist, Sports Writer, Technical Writer, Television Reporter

HOW CAN I GAIN EXPERIENCE?

School Activities

Family Career and Community Leaders of America, UIL Journalism Competition, UIL Speech Contests, UIL Writing Competition, Student Government, Yearbook & Newspaper Staff

Community Activities

Author, Campaign Volunteer, Library Volunteer, Newsletter Editor, Publicity, Chairperson, Tutor

College Majors

Broadcast Journalism, Communication, General, Digital Communications & Multimedia, Health Communication, Journalism, Mass Communications, Photojournalism, Political Communication, Public Relations, Sports Communication

PHOTOJOURNALISM: Behind the Story



Journalism



BISD Related High School Courses

- Graphic Design and Illustration
- Audio Video Production
- Professional Communications
- Digital and Interactive Media
- Photojournalism
- World Languages
- Newspaper 1-3
- Yearbook 1-3
- Principles of Information Technology
- Sociology

COMMUNICATION AND PUBLIC RELATIONS



WHERE CAN I GO WITH COMMUNICATION AND PUBLIC RELATIONS?

HS Diploma/ On-the-Job Training	Advertising Intern, Broadcast Intern, Corporate Intern, Host/Hostess, Newspaper Intern, Public Relations Intern, Receptionist
Jr/Technical/ Community College or Apprenticeship	Public Relations Assistant, Social Secretary, Flight Attendant, Broadcast Advertiser, Newspaper Advertiser, Public Relations Advertiser, Public Relations Officer, Publication Officer
Bachelor's Degree or Master's Degree, Doctorate	Advertising Manager, Broadcast Media Advertiser, Corporate Public Relations Specialist, Fund Raiser, Human Resource Manager, Lobbyist, Marketing Manager, Multimedia Specialist, Campaign Press Agent, Media Advertiser, Public Relations Manager

HOW CAN I GAIN EXPERIENCE?

School Activities

Family Career and Community Leaders of America, Debate Team, Essay Contest, Drama, Newspaper Staff, Student Government, UIL Speech/Debate Contest, Yearbook Staff

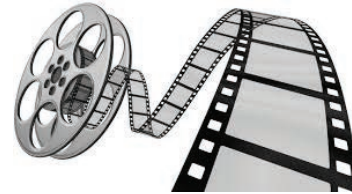
Community Activities

Community Activist, Blogger, Law Office Intern, Library Volunteer, Newspaper Intern, Radio/TV Intern

College Majors

Advertising, Communication, General, Digital Communications & Multimedia, Organizational Communication, Photojournalism, Political Communication, Public Relations, Public Relations & Advertising, Radio and Television

COMMUNICATION: RADIO, FILM, TELEVISION & MULTIMEDIA



BISD Related High School Courses

- Audio Video Production
- Professional Communications
- Photojournalism
- World Languages
- Principles of Information Technology
- Sociology
- Marketing Dynamics
- Prin. of Business, Marketing & Finance

WHERE CAN I GO WITH COMMUNICATION: RADIO, FILM, TELEVISION & MULTIMEDIA?

HS Diploma/ On-the-Job Training	Actor/Extra, Electrical Asst., Grip, Motion Picture Projectionist, Production Assistant, Rigging Assistant, Wardrobe Assistant, Sound Technician, Voice-over Specialist
Jr/Technical/ Community College or Apprenticeship	Audio Technician, Commercial Writer, Film Editor, Film Critic, Editorial Writer, Newscaster, Photographer, Program Coordinator, News Manager
Bachelor's Degree or Master's Degree, Doctorate	Advertising Manager, Broadcast Media Advertiser, Casting Agent, Commercial Production Director, Director of Photography, Multimedia Specialist, Producer, Radio/TV Engineer, Radio/TV Personality, Screenwriter

HOW CAN I GAIN EXPERIENCE?

School Activities

Technology Student Association, Stage Crew for a Theatrical production

Community Activities

Community Activist, Blogger, Newspaper Intern, Radio/TV Intern, Web Casts, Community Theater Sound Technician

College Majors

Advertising, Broadcast Journalism, Communication, Digital Communications and Multimedia, Journalism, Film/Cinema Studies, Mass Communications, Photojournalism, Business Administration, Publishing, Radio and Television Sports Communication

GRAPHIC ARTS AND PRINTING



BISD Related High School Courses

- | | |
|---|---|
| <input type="checkbox"/> Animation | <input type="checkbox"/> Prin. of Business, Marketing & Finance |
| <input type="checkbox"/> Professional Communications | <input type="checkbox"/> Web Technologies |
| <input type="checkbox"/> Digital and Interactive Media | <input type="checkbox"/> Graphic Design & Illustration |
| <input type="checkbox"/> Photojournalism | <input type="checkbox"/> Fashion Design |
| <input type="checkbox"/> Audio Video Production | <input type="checkbox"/> Interior Design |
| <input type="checkbox"/> Advanced Video Production | <input type="checkbox"/> Art 1-2 |
| <input type="checkbox"/> Principles of Information Technology | <input type="checkbox"/> Sports & Entertainment Marketing |
| <input type="checkbox"/> Marketing Dynamics | |

WHERE CAN I GO WITH GRAPHIC ARTS AND PRINTING?

HS Diploma/ On-the-Job Training	Desktop Publisher, Graphic Artist, Photographer, Press Operator, Print Supply employee, Multimedia Artist, Animator
Jr/Technical/ Community College or Apprenticeship	Book Binder/Finisher, Computer Illustrator, Layout Designer, Press Operator, Retail Window Art, Studio Artist, Book Jacket Designer
Bachelor's Degree, Master's Degree or Doctorate	Advertising Agent, Art Director, Commercial Artist, Graphic Designer, Graphic Illustrator, Landscape Artist, Print Shop Owner, Store Manager, Multimedia Artist, Teacher, Multimedia Specialist, Galley Director, Studio Artist

HOW CAN I GAIN EXPERIENCE?

Community Activities

Newspaper Intern, Web Art Gallery, Community Art Projects/Beautifications

School Activities

Academic Decathlon, Art Shows, Newspaper Staff, Yearbook Staff

College Majors

Commercial and Advertising Art, Commercial Photography, Design and Visual Communications, Fashion Design, Game and Interactive Media Design, Graphic Design, Illustration, Industrial and Product Design, Interior Design, Art History, Criticism, and Conservation, Arts, Drawing, Painting

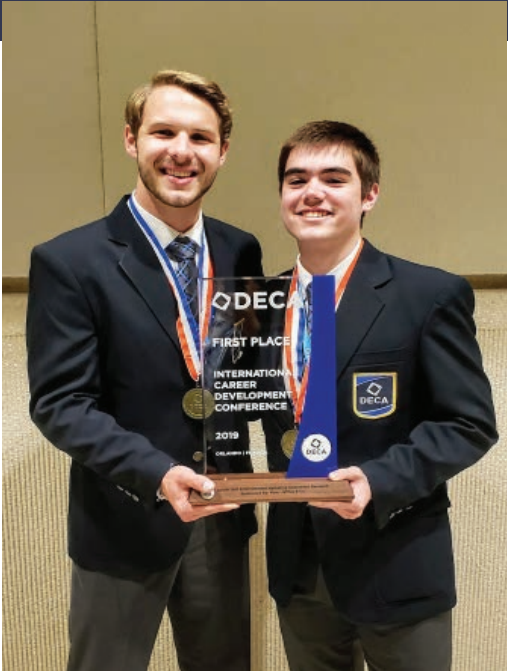
BUSINESS MANAGEMENT AND ADMINISTRATION



BUSINESS MANAGEMENT

BISD Related High School Courses

- Accounting 1&2
- Business Information Management
- Principles of Business
- Business Management Practicum
- Business Law
- Marketing Dynamics
- Entrepreneurship
- Professional Communications
- Statistics
- Calculus



WHERE CAN I GO WITH BUSINESS MANAGEMENT & ADMINISTRATION?

HS Diploma/ On-the-Job Training	Administrative Assistant, Bank Teller, Bookkeeper, Cashier, Collection Worker, Computer Operator, Court Clerk, Data Entry Clerk, Insurance Agent, Office Assistant, Postal or Stock Clerk
Jr/Technical/ Community College or Apprenticeship	Administrative Service Supervisor, Benefits Manager, Clerical Supervisor, Computer Programmer, Credit Manager, Information Technology, Insurance Manager, Paralegal, Legal Assistant, Technical Writer
Bachelor's or Master's Degree, Doctorate	Comptroller, Education Administrator, Purchasing Agent, Personnel Manager, Computer Programmer, Systems Analyst, Information Technologist, Credit Manager, Benefits Manager, Facilities Manager, Labor Relations.

HOW CAN I GAIN EXPERIENCE?

School Activities

Academic Competition, Career and Technology Education Leadership Organizations, National Honor Society, Science Fairs, Student Government Club Officer

Community Activities

Part-Time Employment, Community Service Volunteer, Officer for Community Clubs and Organizations

College Majors

Business Administration and Management, Customer Service Management, E-commerce, Logistics and Materials Management, Office Management, Operations Management, Organizational Leadership, Project Management, Purchasing-Procurement-Contracts Management, Research and Development

MARKETING AND FINANCE



- BISD Related High School Courses**
- Accounting 1&2
 - Banking and Financial Services
 - Marketing and Finance
 - Business Management
 - Principles of Business, Marketing and Finance
 - Business Management Practicum
 - Business Law
 - Marketing Dynamics
 - Entrepreneurship
 - Statistics

WHERE CAN I GO WITH FINANCE?

HS Diploma/ On-the-Job Training	Account Clerk, Administrative Assistant, Auctioneer, Audio Assistant, Bank Teller, Bookkeeper, Cashier, Collection Worker, Court Clerk, Customer Service Representative, Insurance Agent
Jr/Technical/ Community College or Apprenticeship	Account Auditor, Accountant Technician, Benefits Manager, Buyer, Wholesale & Retail Claims Adjuster, Systems Analyst, Cost Estimator, Credit Analyst, Credit Manager, Loan Specialist, Stockbroker
Bachelor's or Master's Degree, Doctorate	Accountant, Account Executive, Actuary, Bank Manager, CPA, CFO, City Manager, Computer Systems Analyst, Director of Finance, Education Administrator, Financial Manager, Information Technology Specialist, Purchasing Agent

HOW CAN I GAIN EXPERIENCE?

School Activities

Academic Competition, Career and Technology Education Leadership Organizations, National Honor Society, Science Fairs, Student Government Club Officer

Community Activities

Club Treasurer, Part-Time Employment, Community Service Volunteer, Officer for Community Clubs and Organizations

College Majors

Accounting, Accounting and Business Management, Accounting and Finance, Accounting Technology and Bookkeeping, Auditing, Banking and Financial Support Services, Credit Management, Finance, Financial Planning, International Finance



MARKETING, SALES & SERVICE

BISD Related High School Courses

- Sports and Entertainment Marketing
- Marketing Dynamics
- Principles of Business, Marketing & Finance
- Marketing Dynamics
- Entrepreneurship
- Fashion Merchandising & Marketing
- Problems & Solutions-
- Marketing Education Professional Communications
- Statistics
- Computer Programming



HOW CAN I GAIN EXPERIENCE?

School Activities

Academic Competition, Career and Technology Education Leadership Organizations, National Honor Society, Student Government Club Officer, Junior Achievement, School Newspaper, Theatre Arts

Community Activities

Part-time Employment, Community Service Volunteer, Public Library Volunteer, Red Cross Volunteer, YMCA/YWCA Volunteer

College Majors

Apparel & Accessories Marketing Operations, Auctioneering, Financial Services Marketing Operations, Hospitality and Recreation Marketing, International Marketing, Marketing, Marketing Research Merchandising & Buying Operations, Sales and Distribution, Special Products Marketing Operations, Tourism and Travel Services Marketing Operations, Tourism Marketing

WHERE CAN I GO WITH MARKETING?

HS Diploma/ On-the-Job Training	Auto Parts Sales & Service, Bank Teller, Cashier, Collection Worker, Entrepreneur, New Accounts Representative, Insurance Agent, Reservations Agent, Retail Sales Supervisor, Stock Clerk, Stock Merchandiser
Jr/Technical/ Community College or Apprenticeship	Caterer, Fashion Merchandiser, Insurance Manager Loan Officer, Purchasing Agent, Real Estate Sales, Sales Representative, Travel Agent, Sales Supervisor, Stockbroker, Administrative Service Assistant
Bachelor's or Master's Degree, Doctorate	Business Manager/Buyer, Advertising Manager, General Manager, Public Administrator, Purchasing Agent, Stockbroker, Personnel Manager, Promotions Manager, Credit Manager, City Manager, Insurance Broker, Product Manager, Marketing Manager, Labor Relations Manager, Marketing Research Analyst

INFORMATION TECHNOLOGY



BISD Related High School Courses

- Principles of Information Technology
- Web Technologies
- Computer Programming
- Cisco Internetworking 1&2
- Computer Maintenance
- Computer Technician
- Engineering Science
- Virtual Business
- Computer Science
- Engineering Mathematics



WHERE CAN I GO WITH INFORMATION TECHNOLOGY?

HS Diploma/ On-the-Job Training	Assembler, Solderer, Computer Data Entry Clerk, Construction Worker/Technician, Drafting Technician, Machine Operator, Mechanic Assistant
Jr/Technical/ Community College or Apprenticeship	Computer Operator, Programmer, Technician, Computer Systems Analyst/Designer/Drafter, Electrical Engineering Technician, IT Support Specialist, Machinist, Mechanical Technician, Network Systems Technician, Spreadsheet Application Specialist
Bachelor's or Master's Degree, Doctorate	Application Programmer, Hardware/Software Purchasing, Computer Engineer, Systems Management, Software Engineer, Database Programmer, Electrical Engineer, Network Administrator, System Administrator

HOW CAN I GAIN EXPERIENCE?

School Activities

Academic Decathlon, Computer Club, Computer Programming Contests, Robotics Competition, UIL Academic Competition in Computer Science, Career & Technology Education Leadership Organizations

Community Activities

Computer Science Tutoring, Internships, Independent Web Design and HTML tutorials, Boy Scouts of America Programs

College Majors

Computer Engineering Technology, Computer Systems Technology, Electrical Engineering, Hazardous Materials Information Systems Technology, Hydraulics/Fluid Power Technology, Integrated Circuit Design, Nuclear Engineering, Petroleum Technology, Robotics Technology, Applied Mathematics



AGRICULTURE, FOOD AND NATURAL RESOURCES



WHERE CAN I GO WITH AGRICULTURAL FOOD & NATURAL RESOURCES?

HS Diploma/ On-the-Job Training	Farm Worker, Plant Nursery employee, Florist/Gardener and Groundskeeper, Farm Equipment Mechanic, Farm Manager, Fisher/Hunter/Trapper, Lumber Production Worker, Greenhouse keeper
Jr/Technical/ Community College or Apprenticeship	Arborist, Floral Designer, Interior Plantscaper, Irrigation Technician, Landscape Contractor, Pest Management Technician, Forestry Worker, Farmer, Hazardous Material Specialist, Poultry Hatchery Supervisor, Agriculture Consumer Specialist
Bachelor's or Master's Degree, Doctorate	Botanical Gardens Manager, Botanist, Agricultural Engineer, Turf Manager, Forester and Conservation Scientist, Ranch Manager, Horticulturist, Nursery Orchard Manager, Plant Breeder, Agricultural Scientist, Fish and Game Warden, Landscape Architect, Aquaculturalist, Plant Geneticist

HOW CAN I GAIN EXPERIENCE?

School Activities

FFA, Floral Design Competition, Horticulture Competition, School Clubs and Organizations

Community Activities

Part-time Employment, Community Garden Volunteer, Botanic Garden Volunteer, City Beautification Contests, Officer for Community Clubs and Organizations

College Majors

Agricultural Production, Aquaculture, Crop Production, Dairy Husbandry and Production, Sustainable Agriculture, Viticulture and Enology, Agricultural and Food Products Processing, Agricultural Business, Agricultural Economics, Agricultural Equipment Technology, Agriculture Education Services, Agriculture, Farm and Ranch Management, Food Science, Food Technology and Processing, Soil Chemistry and Physics, Soil Science, Sustainable Agriculture

Business & Industry



BISD Related High School Courses

- Principles in Agriculture, Food and Natural Resources
- Advanced Animal Science
- Advanced Plant & Soil Science
- Principles and Elements of Floral Design
- Horticulture Science I
- Food Science
- Aquatic Science
- Livestock Production
- Equine Science

WHERE CAN I GO WITH AGRICULTURAL FOOD & NATURAL RESOURCES?

HS Diploma/ On-the-Job Training	Farm Worker, Animal Groomer, Veterinarian Assistant, Ranch Hand, Office Assistant
Jr/Technical/ Community College or Apprenticeship	Veterinarian Technician, Animal Nutritionist, Animal Trainer, Animal Groomer, Crop Farmer
Bachelor's or Master's Degree, Doctorate	Agribusiness Operations, Agricultural Engineers, Agricultural and Food Scientists, Aquaculturists, Chemists and Materials Scientists, Crop Farmers, Dairy Farmers, Pig and Poultry Farmers, Ranchers

HOW CAN I GAIN EXPERIENCE?

School Activities

FFA Floral Design Competition, Livestock Competition, and Organizations

Community Activities

Part-time Employment, Community Garden Volunteer, Botanic Garden Volunteer, City Beautification Contests, Officer for Community Clubs and Organizations

College Majors

Poultry Science, Dairy Science, Livestock Management, Animal Nutrition, Animal Behavior Ethnology, Animal Health, Animal Breeding, Science Technology, Biological, Biomedical Sciences Veterinary Medicine, Zoology

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

AUTOMOTIVE TECHNOLOGY:



- BISD Related High School Courses**
- Engineering Math
 - Marketing Dynamics
 - Automotive Technology
 - Adv. Automotive Technology
 - Automotive Technology Practicum
 - Transportation, Distribution and Logistics Practicum
 - Energy, Power & Transportation Systems
 - Business Information Management
 - Principles of Manufacturing
 - Computer Programming



WHERE CAN I GO WITH

TRANSPORTATION, DISTRIBUTION & LOGISTICS?

HS Diploma/ On-the-Job Training	Airport Ground Crew, Ambulance/Attendant Driver, Bus Driver, Dispatcher, Fort Lift Operator, Highway Maintenance Worker, Inspector/Grader/Tester, Longshore Worker/Stevedore, Merchant Marine, Deckhand, Welder & Cutter
Jr/Technical/ Community College or Apprenticeship	Aircraft Pilot, Air Traffic Controller, Aircraft Mechanic, Automotive Technician, Diesel Bus/Truck Technician, Industrial Traffic Manager, Inventory/Warehousing, Military Mechanic Operating Engineer, Scheduler
Bachelor's or Master's Degree, Doctorate	Aerospace Engineer, Air & Marine Navigator, Airplane Pilot, Air Traffic Controller, Mechanical Engineer, Industrial Engineer, Manager, Inventor, Logistics Specialist, Marine Engineer, Marine Architect, Military Pilot

HOW CAN I GAIN EXPERIENCE?

School Activities

Academic Competition, Skills USA, National Honor Society, Science Fairs, Student Government
Club Officer

Community Activities

Community Activities, ASPIRE, Public Library Volunteer, Red Cross Volunteer, Geocaching Clubs, Civil Air Patrol

College Majors

Air Traffic Control, Air Transportation, Aviation Management, Flagging and Traffic Control, Flight Instruction, Professional Diving and Instruction, Railroad and Railway Transportation, Transportation and Materials

AVIATION AIRCRAFT TECHNOLOGY:



Career and Technology students desiring a career in Aviation Maintenance may be eligible for dual enrollment at Tarrant County College and take classes at the Erma C. Johnson Hadley Northwest Center of Excellence for Aviation, Transportation and Logistics (Alliance Airport). They must have a B average and must have completed Algebra I, Algebra II and Geometry or have a B average and have passed the placement test (TSI). BISD counselors must approve. Three (3) high school credits for Aircraft Mechanics course and twelve (12) college credits may be awarded from TCC. The aviation program is a licensing program; therefore, there is a mandatory attendance rule. BISD will purchase tools and books, which will be checked out to students and returned when the students graduate. BISD will pay TCC tuition and fees.



BISD Related High School Courses

- Aircraft Maintenance
- Engineering Math
- Marketing Dynamics
- Automotive Technology
- Adv. Automotive Technology
- Automotive Technology Practicum
- Transportation, Distribution and Logistics Practicum
- Energy, Power & Transportation Systems
- Business Information Management
- Principles of Manufacturing
- Computer Programming



MANUFACTURING, ARCHITECTURE AND CONSTRUCTION



WHERE CAN I GO WITH MANUFACTURING, ARCHITECTURE & CONSTRUCTION?

HS Diploma/ On-the-Job Training	Bindery Worker, Brick/Stonemason, Carpenter, Building Inspector, Drafter, Construction Laborer, Drywall/Lath Installer, Electromechanical Assembler, Metal/Plastics Machine Operator, Packager, Painter, Plumber, Pipefitter, Roofer, Tile Setter
Jr/Technical/Community College or Apprenticeship	CAD Drafter, Cement Mason, Chemical Equipment Operator, Compositor & Typesetter, Cost Estimator, Electrician, Electrical Technician, Heating/AC Technician, Industrial Traffic Manager, Millwright, Tool & Die Maker, Welder
Bachelor's or Master's Degree, Doctorate	Cost Estimator, Mining Engineer, Electrical Engineer, Computer Engineer, Mechanical Engineer, Industrial Engineer, Aerospace Engineer, Inventor, Civil Engineer, Architect, Urban & Regional Planner, Graphics Designer, Landscape Architect, Marine Engineer & Architect, Budget Analyst, Production Coordinator, Purchasing Agent, Sales Engineer

CONSTRUCTION TECHNOLOGY



HOW CAN I GAIN EXPERIENCE?

School Activities

Computer Club, Computer Programming Contests, Robotics Competition, UIL Academic Competition in Computer Science, Career & Technology Education Leadership Organizations

Community Activities

Computer Science Tutoring, Internships, Independent Web Design and HTML tutorials, Boy Scouts of America Programs

College Majors

Architectural and Building Sciences/ Technology, Architectural Technology, Architecture, City, Community, and Regional Planning, Environmental Design, Interior Architecture, Landscape Architecture, Real Estate Development, Building Construction Technology, Construction Site Management, Electrical and Power Transmission Installation, Metal Building Assembly, Plumbing Technology, Well Drilling

BISD Related High School Courses

- Principles of Information Technology
- Civil Engineering & Architecture
- Construction Technology I-IV
- Interior Design I-II
- Intro to Engineering Design
- Engineering Math
- Digital Electronics
- Construction Mgmt Practicum



HOSPITALITY AND TOURISM



BISD Related High School Courses

- Hotel and Restaurant Management
- Travel and Tourism 1-2
- Food Science
- Professional Communications
- Hospitality & Tourism Practicum
- Business Information Management



WHERE CAN I GO WITH HOSPITALITY & TOURISM?

HS Diploma/ On-the-Job Training	Restaurant Host/Hostess, Hotel/Motel Maintenance or Staff, Recreation Attendant/Usher, Taxi Driver and Chauffeur,
Jr/Tech/Community College or Apprenticeship	Flight Crew Member, Airport Agent, Food Service Lodging Manager, Park Ranger, Recreation Worker, Reservations Agent, Travel Agent, Social Secretary
Bachelor's or Master's Degree, Doctorate	Food/Lodging Manager, Funeral Dir., Parks & Recreation Dir., Sports Instructor/Coach, Hotel/Resort Mgmt, Tourism Director, Event Planner

HOW CAN I GAIN EXPERIENCE?

School Activities

National Honor Society, Peer Tutoring/ Counseling, Student Government, Theatre Arts

Community Activities

FFA, Babysitting, Hospital Volunteer, Little League Volunteer, Red Cross Volunteer, YMCA/ YWCA Volunteer, Church Volunteer

College Majors

Hospitality Management and Administration, Geography, Hotel and Motel Management, Human Resources Management, Public Relations, Tourism and Travel Management

HOSPITALITY AND TOURISM

CULINARY ARTS: BISTRO



BISD Related High School Courses

- Principles of Human Services
- Culinary Arts
- Practicum in Culinary Arts
- Food Science
- Lifetime Nutrition and Wellness
- Professional Communications

Texas career cluster for Hospitality & Tourism involves restaurants and food/beverage services.

WHERE CAN I GO WITH CULINARY ARTS?

HS Diploma/ On-the-Job Training	Restaurant Host/Hostess, Fry Cook, Food Assembler
Jr/Tech/Community College or Apprenticeship	Catering Specialist, Banquet Specialist, Private Chef, Bakery Assistant, Restaurant Cook
Bachelor's, Master's, Doctorate Degree	Chefs, Dieticians, Dietetic Technicians, Nutritionists, Food Service Managers, Health Educators

HOW CAN I GAIN EXPERIENCE?

School Activities

National Honor Society, Academic Clubs

Community Activities

Hospital Volunteer, Red Cross Volunteer, Church Volunteer, Specialty Food Classes

College Majors

Culinary Arts, Nutrition Sciences, Family and Consumer Sciences, Foods Nutrition and Wellness Studies

SCIENCE AND ENGINEERING



WHERE CAN I GO WITH SCIENCE AND ENGINEERING?

HS Diploma/ On-the-Job Training	Automation/Robotics Technician, Broadcast Technician, Dental Lab Technician, Energy Conservation and Use Technician, Engineering Technician, Ophthalmic Lab Technician
Jr/Technical/ Community College or Apprenticeship	Automation/Robotics Technician, Broadcast Technician, Clinical Lab Technologist, Computer Programmer, Dental Lab Technician, Electrical Engineering Technician, Laser Technician
Bachelor's or Master's Degree, Doctorate	Biological Scientist, Chemist, Geoscientist, Natural Scientist, Meteorologist, Physicist, Astronomer, Science Technologist, Aerospace Engineer, Chemical Engineer, Computer Hardware Engineer, Electrical Engineer, Environmental Engineer, Geographic Specialist, Industrial Engineer, Mechanical Engineer, Nuclear Engineer, Petroleum Engineer

HOW CAN I GAIN EXPERIENCE?

School Activities

Academic Decathlon, Computer Club, UIL Academic Competition in Science, Mathematics and Computer Science Robotics Competitions, Skills USA, National Honor Society, Science Club Mathematics Club, Student Government

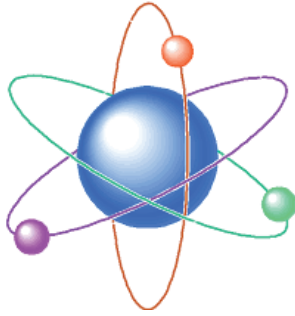
Community Activities

Explorers, Internships, Part-Time Employment, Independent Web Design and HTML tutorials, Boy Scouts of America Programs

College Majors

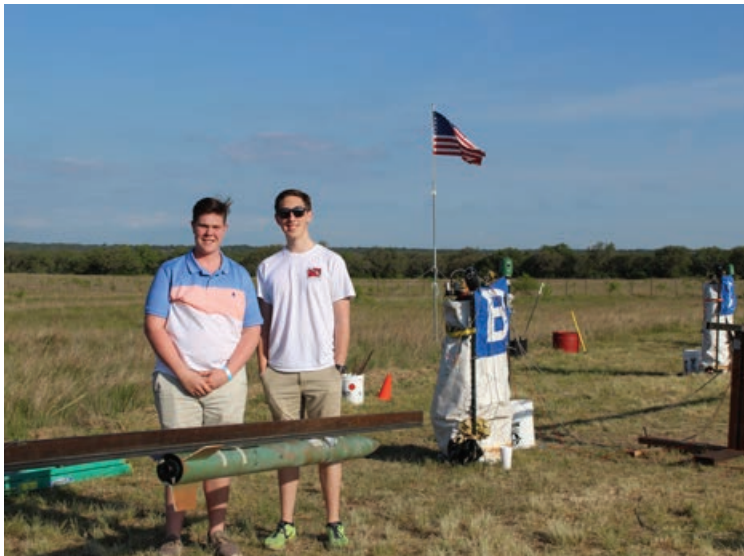
Biology and Biotechnology Laboratory, Technology, Chemical Technology, Industrial Radiologic Technology, Engineering, Nuclear Technology, Science Technology, Mathematical Statistics and Probability, Mathematics, Mathematics and Statistics, Statistics

SCIENCE AND ENGINEERING



BISD Related High School Courses

- Principles of Information Technology
- Computer Programming
- Introduction to Engineering Design
- Engineering Science
- Aerospace Engineering
- Drone Aerospace Systems
- Digital Electronics
- Civil Engineering & Architecture
- Engineering Science
- Robotics
- Rocketry
- Engineering Mathematics



LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

Firefighter



BISD Related High School Courses

- Court Systems and Practices
- Principles of Law 1-2
- Law Enforcement 1-2
- Principles of Law, Public Safety,
Corrections and Security
- Forensic Science
- Firefighter 1-2





LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

LAW ENFORCEMENT:

Court Systems and Practices



WHERE CAN I GO WITH LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY?

HS Diploma/ On-the-Job Training	Animal Caretaker, Corrections Officer, Dispatcher, Firefighter, Police Officer, Private Security
Jr/Tech/Community College or Apprenticeship	Case Worker, Corrections Officer, Firefighter, Juvenile Facility Officer, Park Ranger, Probation Officer
Bachelor's or Master's Degree, Doctorate	FBI/CIA/DEA/Federal Agent, Lawyer, District Attorney, Fire Chief, Game Warden, Inspector/Compliance Officer, Police Chief

HOW CAN I GAIN EXPERIENCE?

School Activities

National Honor Society, Peer Tutoring/ Counseling, Speech Contest, Student Government, Debate, Academic Decathlon

Community Activities

Babysitting, Explorers, Hospital Candy Strippers, Community Service Volunteers, Red Cross Volunteer, Volunteer Fire Fighter, Teen Court Volunteer

College Majors

Court Reporting, Legal Studies, Paralegal Studies, Pre-law Studies, Criminology



HEALTH SCIENCE



WHERE CAN I GO WITH HEALTH SCIENCE?

<p>HS Diploma/ On-the-Job Training</p>	<p>Ambulance Attendant/Driver, Dental Lab Technician, Dialysis Technician, EKG Technician, Emergency Medical Technician, Patient Care Technician Medical Administrative Assistant, Pharmacy Technician, Certified Electrocardiogram Technician, Phlebotomist</p>
<p>Jr/Technical/ Community College or Apprenticeship</p>	<p>Cardiac Technician, Clinical Lab Technician, Dental Assistant, Diagnostic Image Specialist, Industrial Hygienist, Medical Lab Technician, Medical Record Technician, LVN, LPN, Occupational Therapist, Radiological Technician, Radiographer, Recreational Therapist, Surgical Technician, Ultrasound Technician, Veterinary Lab Technician</p>
<p>Bachelor's or Master's Degree, Doctorate</p>	<p>Anesthesiologist, Biotechnology Research Technologist, Chiropractor, Clinical Lab Technologist, Dentist, Dietician and Nutritionist, Health Administrator, Lab Analyst, Environmental Nuclear Medicine Technologist, Nurse Anesthetist, Registered Nurse, Occupational Therapist, Optometrist, Orthotist, Prosthetist, Pharmacist, Physical Therapist, Podiatrist, Respiratory Care Technologist, Speech Pathology/Audiologist, Veterinarian</p>

HOW CAN I GAIN EXPERIENCE?

School Activities

Health Occupations Student Association, Academic Competition, National Honor Society, National Technical Honor Society, Science Fairs, Student Government, Club Officer, School Newspaper

Community Activities

Part-time Employment, Community Service Volunteer, Hospice Volunteer, Blood Drive Volunteer, Red Cross Volunteer, YMCA/YWCA Volunteer, Hospital Candy Striper, Babysitter, Animal Shelter Volunteer

College Majors

Athletic Training, Clinical Lab Science, Cytotechnology, Emergency Management, Genetic Counseling, Healthcare Administration, Hematology Technology, Histologic Technology, Medical Doctor, Nursing, Nurse Practitioner, Paramedic, Pharmacists, Physical Therapist, Physician's Assistant, Sonography, Radiology

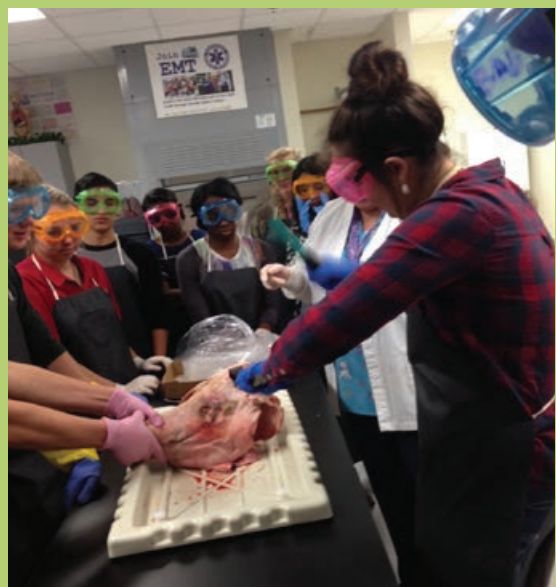


BISD Advanced HST Programs

- Clinical Rotations 1-2
- ECG/Phlebotomy
- EMT
- Medical Administrative Assistant
- Pharmacy Technician
- Sports Medicine

BISD Related High School Courses

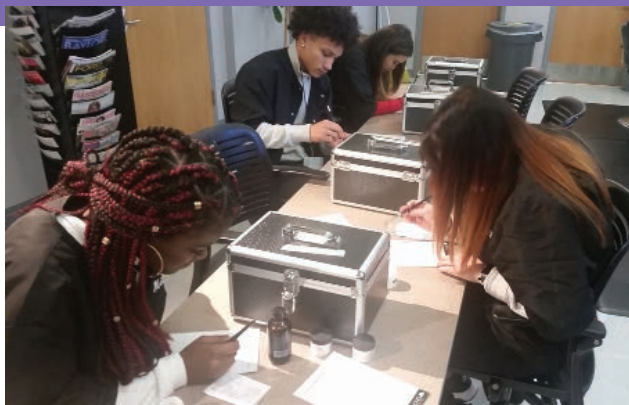
- Principles of Health Science
- Medical Terminology
- Clinical Rotations 1
- Clinical Rotations 2/
Patient Care Technician
- Pharmacy Technician
- Emergency Medical Technician
- Anatomy and Physiology
- Medical Microbiology
- Pathophysiology
- Sociology
- Psychology
- Food Science
- Counseling and Mental Health
- Electrocardiogram/
Phlebotomy Technician
- Medical Administrative Assistant
- Sports Medicine 1-3



HUMAN SERVICES



Cosmetology



BISD Related High School Courses

- Cosmetology I-II
- Principles of Human Services
- Entrepreneurship
- Medical Microbiology
- Lifetime Nutrition and Wellness
- Professional Communications

WHERE CAN I GO WITH COSMETOLOGY?

HS Diploma/ Certification	Shampoo Technician, Hair Stylist
Jr/Tech/Community College or Apprenticeship	Hair Stylist, Nail Technician, Massage Therapist
Bachelor's, Master's, Doctorate Degree	Salon Owner, Physical Therapist, Spa Services Coordinator, Stylist

HOW CAN I GAIN EXPERIENCE?

School Activities

National Honor Society, Academic Clubs

Community Activities

Hospital Volunteer, Red Cross Volunteer, Church Volunteer, Specialty Food Classes

College Majors

Culinary Arts, Nutrition Sciences, Family and Consumer Sciences, Foods Nutrition & Wellness

EDUCATION AND TRAINING



BISD Related High School Courses

- Principles of Education and Training
- Human Growth and Development
- Instructional Practice in Education and Training
- Peer Assistance Leadership/TAFE
- Principles of Human Services
- Human Services Practicum
- Interpersonal Studies

HOW CAN I GAIN EXPERIENCE?

School Activities

Academic Competition, Fine Arts, National Honor Society, Peer Tutoring/ Counseling, Student Government, Theatre Arts

Community Activities

FFA, Babysitting, Hospital Volunteer, Little League Volunteer, Red Cross Volunteer, YMCA/YWCA Volunteer, Church Volunteer

College Majors

Bilingual Education, College Student Counseling and Personnel Services, Counselor Education, Curriculum and Instruction, Education, Educational Assessment, Testing, and Measurement, Educational Statistics and Research Methods, Instructional Technology

WHERE CAN I GO WITH EDUCATION AND TRAINING?

HS Diploma/ On-the-Job Training	Library Technical Assistant, Teacher's Aide, Special Education Aide,
Jr/Technical/ Community College or Apprenticeship	Teacher's Aide, Science Technician, Recreational Manager, Preschool Teacher
Bachelor's or Master's Degree, Doctorate	Archivists, Conservators, Curators, Teacher, Exhibit Designer/ Technician, Instructional Coordinator, Librarian, Postsecondary Teacher, Preschool Teacher Trainer, Administrator/Supervisor



GOVERNMENT AND PUBLIC ADMINISTRATION



BISD Related High School Courses

- Court Systems and Practices
- Principles of Law 1-2
- Law Enforcement 1-2
- Forensic Science
- 911 Dispatch
- Criminal Investigations
- JROTC

WHERE CAN I GO WITH JROTC?

HS Diploma/ On-the-Job Training	Taking 3–4 years of JROTC allows cadets to instantly rank higher if they pursue a military career
Jr/Tech/Community College or Armed Services	Case Worker, Corrections Officer, Firefighter, Juvenile Facility Officer, Park Ranger, Probation Officer, Police Administrator, Armed Forces Officer
Bachelor's or Master's Degree, Doctorate	FBI/CIA/DEA/Federal Agent, Fire Chief, Game Warden, Inspector and Compliance Officer, Police Chief

HOW CAN I GAIN EXPERIENCE?

School Activities

Career & Technology Education Organizations, National Honor Society, Student Government, JROTC

Community Activities

Community Service Volunteers, Red Cross Volunteer, Boy Scouts of America, Volunteer Fire Fighter, Teen Court Volunteer

College Majors

Court Reporting, Legal Studies, Paralegal Studies, Pre-law Studies, Criminology

ONLINE LEARNING

Birdville ISD offers flexible learning opportunities for students to earn approved high school credits through online courses provided by highly qualified instructors. Online courses allow students to take approved classes anytime, anywhere for acceleration and remediation in addition to their regularly scheduled courses. Please ask your campus counselors for additional information about these innovative programs.

Dual Credit



Birdville ISD Dual Credit Higher Education Partners:

- . Tarrant County College
- . Texas Woman's University
- . University of Texas at Arlington

Advantages of Dual Credit

Taking a Dual Credit course allows students to enroll in college courses and simultaneously earn college credit and high school credit. These courses include both academic and career/technical courses. Taking these classes will give you a head start on the future.

Students must be TSI Compliant to take Dual Credit Classes

The TSI Assessment is designed to measure your ability to do college-level work. Counselors at BHS, HHS, and RHS will schedule TSI test administrations in the spring semester. TSI exemptions are available for high scores on the PSAT, SAT, or ACT. Contact the Dual Credit counselor on campus for the TSI exemption requirements.

Course Descriptions

A DETAILED GUIDE TO BISD CLASSES

Course Descriptions are divided into content areas and are offered in grades nine through twelve in Birdville ISD. Information about course content, grade, prerequisites, and credits can be found in each section. In most courses credit is awarded or denied at the end of each semester. Students are required to achieve a grade of seventy or higher to receive credit in a course. The Advanced Technical Credit (ATC) Program gives students a chance to receive college credit for taking certain enhanced technical courses.

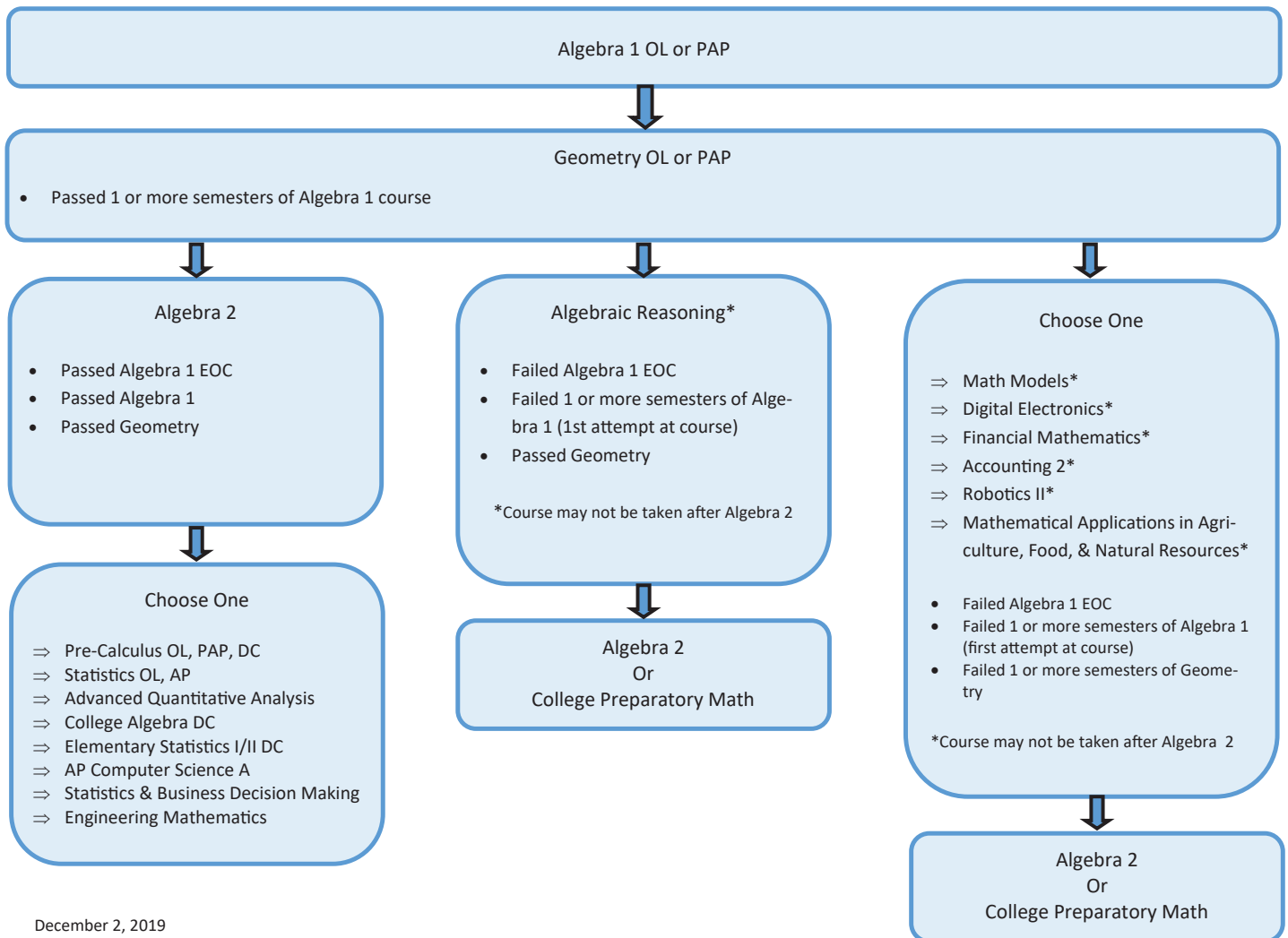
MATHEMATICS



AP	Advanced Placement
	Technology Credit
SOL	Speakers of Other Languages
*	Advanced Technical Credit Eligible

All students are required to take at least four years of high school mathematics. The tables below represent the BISD Secondary Math Recommended Course Sequence:

BISD Secondary Mathematics Recommended Course Sequencing



December 2, 2019

*Weighted GPA credit for students entering 9th grade in 2018-2019 and beyond.

Project Lead the Way. (See page 23 for more information.)

Algebra 1 S20600A/B

Students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. **Prerequisite:** Mathematics, Grade 8 or it's equivalent. 2 semesters (1 credit).

Geometry S2110A/B

Students will build on their knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra 1 to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. **Prerequisite:** Algebra 1A or 1B. 2 semesters (1 credit).

Algebra 2 S2081A/B

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. **Prerequisite:** Algebra 1. 2 semesters (1 credit).

Algebraic Reasoning S2069A/B

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. **Prerequisite:** This course may only be taken before Algebra 2. 2 semesters (1 credit).

Mathematical Models S2510A/B

Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra 1. This mathematics course provides a path for students to succeed in Algebra 2 and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems. **Prerequisite:** Algebra 1. This course may only be taken before Algebra 2 or College Preparatory Math. 2 semesters (1 credit).

Precalculus S2200A/B

Precalculus is the preparation for calculus. This course deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems. 2 semesters (1 credit). **Prerequisite:** Algebra 2. 2 semesters (1 credit).

Statistics S2490A/B

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis. **Prerequisite:** Algebra 1. 2 semesters (1 credit).

Advanced Quantitative Reasoning S2520A/B

Students will develop and apply skills necessary for college, careers, and life. Course content consists primarily of applications of high school mathematics concepts to prepare students to become well-educated and highly informed 21st century citizens. Students will develop and apply reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry, and discrete mathematics. **Prerequisite:** Algebra 2. 2 semesters (1 credit).

College Preparatory Mathematics**S2626A/B**

This course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics covered first semester include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models and problem solving. Topics covered second semester include a relations and functions; inequalities; algebraic expression; and equations (absolute value, polynomial, radical, rational) with an emphasis on linear and quadratic expressions and equations. This course counts as a 4th year of advanced math for high school graduation requirements and is recommended for students who are not yet CCMR ready. Prerequisites: classification as a senior, completion of Geometry, lack of success on Algebra 1 STAAR EOC Exam. 2 semesters (1 credit).

Algebra 1 Pre-AP**S2064A/B**

In Algebra 1 Pre-AP, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments, and completion of complex projects or labs, with complex problem solving. **Prerequisite:** Mathematics, Grade 8 or it's equivalent. 2 semesters (1 credit).

Geometry Pre-AP**S2114A/B**

Students will build on their knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra 1 to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments, and completion of complex projects or labs, with complex problem solving.* **Prerequisite:** Algebra 1. 2 semesters (1 credit).

Algebra 2 Pre-AP**S2084A/B**

Students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra 1. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments, and completion of complex projects or labs, with complex problem solving. **Prerequisite:** Algebra 1. This course (or Algebra 2) is required for distinguished level of achievement or STEM endorsement. 2 semesters (1 credit).

Precalculus Pre-AP**S2204A/B**

Precalculus is the preparation for calculus. This course deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems. Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments, and completion of complex projects or labs, with complex problem solving. 2 semesters (1 credit). **Prerequisite:** Algebra 2. 2 semesters (1 credit).

AP Calculus AB**S2235A/B**

The topics of study are functions, graphs, limits, derivatives and integrals and their applications. Students work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal and understand their connections. The graphing calculator is used extensively in this course. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP[®] Calculus AB exam in May.* **Prerequisite:** Precalculus. 2 semesters (1 credit).

AP Calculus BC

S2245A/B

This course offers the same content as Calculus AB as well as additional topics in differential and integral calculus and series. (BC topics are typically included in a two-semester sequence at the college level. The College Board assigns an AB sub score as well as a BC score to each exam for students to receive 1 or 2 semesters of college credit.) Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP[®] Calculus BC exam in May. **Prerequisite:** Precalculus, Pre-AP recommended. 2 semesters (1 credit).

AP Statistics

S2495A/B

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. It is equivalent to a one semester, introductory, non-calculus based college course in statistics. Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. **Prerequisite:** Algebra 2. 2 semesters (1 credit).

 **AP Computer Science A**

(Mathematics credit)

X0030A/B

(LOTE credit)

X0031A/B

An introductory course in computer science studying the Java programming language, and is built around the development of computer programs or parts of programs that correctly solve a given problem. Includes development and analysis of algorithms, development and use of fundamental data structures, and study of standard algorithms. Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. Upon successful completion of this course, students receive an advanced mathematics credit as well as a Language Other than English Credit. 2 semesters (1 advanced mathematics credit, 1 LOTE credit).

College Algebra DUAL Credit

TCC 1314

BHS/HHS S21010

BCTAL S21011

TWU Math 1303

RHS S21012

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Computer software materials fee charged for some sections. 3 semester college hours. **Prerequisite:** TSI compliant in mathematics.

Pre-Calculus DUAL CREDIT

TCC 2412

BHS/HHS S22110

BCTAL S22111

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Includes the study of elementary functions, both algebraic and trigonometric, their graphs and applications. These functions include polynomial, rational, exponential, logarithmic and trigonometric. 4 semester college hours. **Prerequisite:** MATH-1314 or MATH-1316 with a minimum grade of C.

Calculus 1 DUAL CREDIT

TWU Math 2014

HHS/RHS S22112

Analytic geometry; limits and continuity; differentiation of algebraic and transcendental functions; antiderivatives; definite integrals. 4 semester college hours. **Prerequisite:** MATH 1303 and 1313 or equivalent; HS Precalculus and be TSI math compliant.

Elementary Statistics I DUAL CREDIT

TWU Math 1703

RHS S2491A

Frequency distributions; graphical representation, measures of central tendency and dispersion; normal curve; hypothesis testing/confidence intervals. 3 semester college hours. **Prerequisite:** TSI compliant in mathematics.

Elementary Statistics II DUAL CREDIT

TWU Math 1713

RHS S2491B

Hypothesis testing, confidence intervals, nonparametric statistics, regression and correlation, time series, experimental design. 3 semester college hours. **Prerequisite:** MATH 1703; TSI compliant in mathematics.

Statistics and Business Decision Making **X2050A/B**

This course is an introduction to statistics and the application to business decision making. Students will use statistics to make business decisions. **Prerequisite:** Algebra 2. 2 semesters (1 credit).

Grade 11-12

Accounting 2

X2061A/B


(Mathematics credit)

Students use accounting tools, strategies and systems in real-world situations to maintain, monitor, control and plan the use of financial resources. Students communicate how accounting procedures affect financial statements and implement the information in assigned projects. 1 semester (1 credit).

 **Digital Electronics**
(PLTW) (Mathematics Credit)

BCTAL X0479A/B

The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will analyze, design, and build digital electronic circuits. While implementing these designs, students will continually hone their professional skills, creative abilities, and understanding of the circuit design process. Digital Electronics (DE) is a high school level course that is appropriate for 10th or 11th grade students interested in exploring electronics. Other than their concurrent enrollment in college preparatory mathematics and science courses, this course assumes no previous knowledge.. 2 semesters (1 credit). **Prerequisites:** Algebra I and Geometry.

 **Robotics 2**
(Mathematics Credit)

BCTAL X0475A/B

Students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. 2 semesters (2 credits).

Engineering Mathematics

HHS X0470A/B
BCTAL X0471A/B

Students solve and model design problems. Students will use a variety of mathematical methods and models to represent and analyze problems that suggest a range of real-world engineering applications such as robotics, data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and computer programming. **Prerequisite:** Algebra 2. 2 semesters (1 credit).

Mathematical Applications in Agriculture Food & Natural Resources
(Mathematics credit)

BCTAL X0512A/B
BCTAL X0512BLK

In this course students will apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. **Prerequisite:** Algebra 1. 2 semesters (1 credit).


Financial Mathematics
(Mathematics credit)

X2051A/B

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. **Prerequisite:** Algebra 1. 2 semesters (1 credit).

SCIENCE



AP	Advanced Placement
	Technology Credit
SOL	Speakers of Other Languages
*	Advanced Technical Credit Eligible

BISD highly recommends that students take four years of science in grades 9-12.

**Weighted GPA credit for students entering 9th grade in 2018-2019 and beyond. Project Lead the Way. (See page 23 for more information.)*

Biology S3020A/B

In Biology, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. Topics include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. 2 semesters (1 credit).

Grade 9-11

Biology Pre-AP S3024A/B

This course is designed as the first of a two year program to prepare students for the AP Biology exam. Pre-AP Biology is a comprehensive study of: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments, and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit).

Grade 9-11

AP Biology S3025A/B

AP Biology focuses on enduring conceptual understandings and the content that supports them. This approach enables student to spend less time on factual recall and more time on inquiry-based learning of essential concepts and the development of reasoning skills. The course will cover: the process of evolution and how it drives diversity, how biological systems utilize free energy and molecular building blocks to carry out life processes, how living systems react to information necessary for life processes, and the properties of biological systems and how they interact. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments, and completion of projects or labs with complex problem solving.*

Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP® Biology exam in May. 2 semesters (1 credit). **Prerequisites:** Pre-AP Biology/Biology; **preferred prerequisite:** Chemistry Grade 10-12

Chemistry S3070A/B

Students study matter and the changes it undergoes. Chemistry students will cover nomenclature, chemical reactions, stoichiometry, the behavior of gases, atomic history and structure, chemical bonding, nuclear fission and fusion, as well as acid-base theories. A conceptual approach will be coupled with mathematical skills necessary to solve fundamental chemistry problems. The topics revolve around societal questions and how chemistry affects daily life. 2 semesters (1 credit). **Prerequisite:** Algebra I and 1 science credit; **preferred prerequisite:** Biology. Grade 10-12

Chemistry Pre-AP S3074A/B

The first of a two year program, Pre-AP Chemistry prepares students for the AP Chemistry exam. This course is a faster-paced with more intensive presentation of the theories and concepts studied in chemistry. Topics include scientific processes, characteristics of matter, atomic theory, bonding and covalent compounds, chemical reactions, quantifying equations, solids, liquids, and solutions, and gas laws. This course is designed for the highly motivated student and utilizes content and activities that stress higher level thinking skills, a rigorous, in-depth, and sophisticated laboratory based approach with accelerated concept pacing. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments, and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit). **Prerequisite:** Algebra I and 1 science credit; **preferred prerequisite:** Biology. Grade 10-12

AP Chemistry S3075A/B

This course is a comprehensive study of advanced chemistry. The following topics will be taught in considerable depth: atomic structure and bonding, chemical and physical properties of matter, changes in matter, rates of chemical reactions, laws of thermodynamics and intermolecular attraction. AP Chemistry promotes enduring conceptual understandings and the content that supports them. This approach enables students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, and helps them develop the reasoning skills necessary to engage in the practice of science. Students will use a recommended college chemistry text. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* 2 semesters (1 credit). **Prerequisites:** Algebra II or concurrent and Chemistry/Pre AP Chemistry. Grade 10-12

Integrated Physics and Chemistry (IPC) S3360A/B

IPC is recommended for students who need extra preparation to meet the rigors of physics and chemistry and integrates the two disciplines with a strong emphasis on calculation in: motion, waves, energy transformation, properties/changes in matter and solution chemistry. 2 semesters (1 credit). **Counselor placement:** Grade 9-11

Physics S3090A/B

This course provides students with conceptual framework, factual knowledge, analytical and scientific skills. Physics studies include: laws of motion; changes within physical systems and conservation of energy and momentum; force; thermodynamics; characteristics and behavior of waves; and quantum physics. 2 semesters (1 credit). **Prerequisite:** Algebra I. Grade 10-12

Physics Pre-AP S3089A/B

This course includes intensified lab and mathematical investigation in the laws of motion, changes within physical systems, conservation of energy and momentum, electricity and magnetism, force and thermodynamics, characteristics and behavior of waves, and quantum physics. Additional emphasis is placed on mathematical relationships and problem solving skills. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments, and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit) **Prerequisite:** Algebra 1 Recommended Algebra 2. Grade 10-12

AP Physics 1: Algebra-Based S3310A/B

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments, and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* A College Board approved syllabus is used for this course. All students will be expected to take the AP® Physics 1: Algebra-Based exam in May. 2 semesters (1 credit). **Prerequisite:** Geometry, Algebra II or concurrent. Grade 10-12

AP Physics 2: Algebra-Based**S3320A/B**

AP Physics 2 is the second part of a two-year course in physics and is equivalent to a second-semester college course in algebra-based physics. AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments, and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* 2 semesters (1 credit). **Prerequisites:** AP Physics 1 or Pre-AP Physics; Pre-calculus or concurrent.
Grade 10-12

AP Physics C: Mechanics, Electricity & Magnetism**S3330A/B**

AP Physics C is most appropriate for student anticipating careers in the engineering field. It covers mechanics, electricity, and magnetism. The mechanics portion covers kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Electricity and magnetism covers electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Students will use a recommended college physics text. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments, and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* A College Board approved syllabus is used for each component of this course. All students will be expected to take the AP[®] Physics C: Mechanics and AP Physics C: Electricity and Magnetism exams in May. 2 semesters (1 credit). **Prerequisites:** Physics, Pre-AP Physics or AP Physics 1 and Calculus or concurrent.
Grade 11-12

Principles of Technology**BCTAL X0520A/B**

(Physics credit) X05250 BLK
Students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices. 2 semesters (1 credit). **Prerequisites:** one credit of high school science and Algebra I
1 semester (1 credit)
Grade 10-12

Aquatic Science**S3100A/B**

Components of an aquatic ecosystem; relationships among aquatic habitats and ecosystems; adaptations of aquatic organisms; changes within aquatic environments; geological phenomena and fluid dynamics effects; and origin and use of water in a watershed will be covered. 2 semesters (1 credit). **Prerequisites:** Biology.
Grade 10-12

Rocket Engineering 1**BCTAL X0462A/B**

(Science Credit) **Scientific, Research and Design**
If you are interested in Aerospace and rockets, this is the class for you. During the first semester, you will build three small rockets while learning about rocket flight. During the second semester, you will work in a team to build and launch (with NASA's help) a rocket to take a one pound payload to a height of one mile. This course counts as a science credit. **Prerequisite:** None.
2 semesters (2 credits).
Grade 10-12

Rocket Engineering 2*BCTAL X0464A/B**

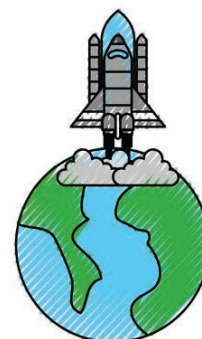
(Science Credit) **Engineering Design and Problem Solving**
If you enjoyed Rocket Engineering 1 and building a rocket that reached a maximum height of one mile, you will love this class. You will be part of a team that builds a transonic rocket that breaks the speed of sound and stays under 12,500 feet. **Prerequisite:** Rocket Engineering 1. 2 semesters (2 credits).
Grade 11-12

Engineering Science**BCTAL X0478A/B**

(PLTW) (Science Credit)
Students explore the wide variety of careers in engineering and technology. Using activities, projects and problems, students learn how engineers use math, science, and technology in problem-solving. 2 semesters (1 credit).
Grade 10-12

Astronomy**S3350A/B**

Students explore information about the universe; scientific theories of the evolution of the universe; characteristics and the life cycle of stars; exploration of the universe; role of the Sun in our solar system; planets; and the orientation and of the Earth. 2 semesters (1 credit). **Prerequisites:** Biology **OR** counselor placement.
Grade 11-12



Environmental Systems**S3370A/B**

Students discover biotic and abiotic factors in habitats; ecosystems and biomes; interrelationships among resources and an environmental system; sources and flow of energy through an environmental system; relationship between carrying capacity and changes in populations and ecosystems will be covered. 2 semesters (1 credit). **Prerequisites:** Biology or counselor placement. Grade 10-12

AP Environmental Science**S3375A/B**

Students will examine the interrelationships of the natural world by studying earth systems, populations, land and water use, energy resources, and pollution. Students will analyze environmental issues/problems to identify risk and evaluate solutions for resolving or preventing them. This is an interdisciplinary course that includes topics such as: Meteorology, Geology, Ecology, Geography, Chemistry, Statistics, Economics and Government. This is a capstone course and is the most suitable for student's senior year. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments, and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* A College Board approved syllabus is used for this course. All students will be expected to take the AP® Computer Science A exam in May..2 semesters (1 credit). **Prerequisite:** Completion of Biology, Chemistry, and Algebra 1. Grade 11-12

Anatomy and Physiology**BCTAL X0491A/B**

(Pre-AP)

BHS, HHS, RHS X0490A/B

Students explore physiological systems and associated pathologies. At least 40% of instructional time involves lab investigations, using safe, environmentally appropriate, and ethical practices. Higher order thinking is stressed through assessment and synthesis of the anatomical knowledge combined with exposure to clinical analysis. 2 semesters (1 credit). **Prerequisite:** Biology. Grade 11-12

Forensic Science**BCTAL X0200A/B**

Students learn procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, and truth detection used to solve crimes. Students collect and analyze evidence through case studies and simulated crime scenes such as fingerprint, ballistics, and blood spatter analysis. 2 semesters (1 credit).1 semester (1 credit) **X02050 BLK**
Grade 12

Medical Microbiology**BCTAL X27901**

Students learn relationships of microorganisms to disease, develop knowledge related to disease prevention by learning the chain of infection, asepsis, and precautions. Pathogenic and nonpathogenic organisms are identified to assist in the understanding of diseases, causative agents and treatments. Each semester (1 credit) **Prerequisite:** Biology, Chemistry. Grade 11-12

Pathophysiology BCTAL**X27903**

Students conduct lab investigations and fieldwork as they study disease and the effect it has on human systems. Emphasis is placed on prevention and treatment. Students will differentiate between normal and abnormal physiology. Each semester (1 credit). **Prerequisite:** Biology, Chemistry or Biology and concurrent Chemistry. Grade 11-12

Food Science**X0380A/B**

Addresses food science principles; nutrition and wellness; food technology; world food supply; managing multiple family, community and wage-earner roles; and career options in nutrition, food science and food technology. Topics include diet-related disorders, diets appropriate to life cycle, therapeutic diets, chemical and physical changes that affect food safety and sanitation standards, market research, legal issues and food policies. 2 semesters (1 credit). Grade 11-12

Advanced Animal Science**BCTAL X0592A/B**
X05925 BLK

1 semester (1 credit)
Students acquire knowledge and skills related to animal systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction allows for the application of scientific and technological aspects of animal science. 2 semesters (1 credit). Grade 11-12

Advanced Plant & Soil Science**BCTAL X05910 BLK**


Provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. 1 semester (1 credit). Grade 11-12

Green House Operations**BCTAL X06009**

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices in an almost completely hands on and lab based environment. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, and acquire technical knowledge and skills related to horticultural systems such as Nursery Production, Greenhouse, Pesticides, Hydroponics, Fertilizers, Pest Management, and Plant Propagation.

ENGLISH LANGUAGE ARTS



AP	Advanced Placement
	Technology Credit
SOL	Speakers of Other Languages
*	Advanced Technical Credit Eligible

*Weighted GPA credit for students entering 9th grade in 2018-2019 and beyond. Project Lead the Way. (See page 23 for more information.)

English 1 - SOL **S1000A/B**
Provides listening, speaking, reading, and writing activities from simple to complex in order to increase student's language usage and comprehension skills. Immigrant students with limited English proficiency only. 2 semesters (1 credit). **Prerequisites:** Language Proficiency Assessment Committee Approval. Grades 9-12

English 2 - SOL **S1010A/B**
Provides listening, speaking, reading, and writing activities from simple to complex in order to increase student's language usage and comprehension skills. Immigrant students with limited English proficiency only. 2 semesters (1 credit). **Prerequisites:** Completion of English 1 or English 1-SOL and Language Proficiency Assessment Committee Approval. *Note: Upon successful completion of English 2-SOL, students must enroll in on-level courses.* Grades 9-12

English 1 **S1030A/B**
Offers an integrated approach to a variety of literature (poetry, drama, novels, short stories, and nonfiction) through which students apply language skills orally and in writing. 2 semesters (1 credit). Grade 9

English 1 Pre-AP **S1034A/B**
This course offers differentiated processes, content and products, while following requirements of English 1. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit). Grade 9

English 2 **S1060A/B**
Focuses on analyzing selected works of literature in fiction, nonfiction, poetry and drama. Integrating grammar, composition, and vocabulary skills with rich reading experiences, provides opportunities both written and oral. 2 semesters (1 credit). **Prerequisite:** Successful completion of English 1 or English 1-SOL. Grade 10

English 2 Pre-AP **S1064A/B**
Stretching students' reading, writing, listening, speaking and thinking skills, this study of world literature emphasizes critical and creative responses to works of fiction, nonfiction, poetry and drama as it concurrently provides occasions and audiences for all types of expository discourse. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit). **Prerequisite:** English 1 or English 1-SOL. Grade 10

English 3 **S1090A/B**
Representative readings from American historical documents, essays, dramas, short stories, poetry and novels, integrates the study of grammar and vocabulary in meaningful writing experiences. A focal point is the research project, a requirement that gives students experience synthesizing information from a various sources. 2 semesters (1 credit). **Prerequisite:** Successful completion of English 2 or English 2-SOL. Grade 11

English 4 **S1120A/B**
This integrated study of English/World literature, composition, grammar and vocabulary reinforces the critical reading and writing skills essential for college entrance. The course affords senior students opportunities to connect America's British roots to their contemporary world through various reading, writing, listening, speaking and thinking activities. 2 semesters (1 credit). **Prerequisite:** Successful completion of English 3. Grade 12

AP Language & Composition **S1095A/B**
Prepares students to complete the AP Language and Composition Examination in May. Students will read, analyze, synthesize, and evaluate selected examples of American and English prose and poetry, focusing on non-fiction argumentation and stylistic and rhetorical strategies. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving.* AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP® English Language and Composition exam in May. 2 semesters (1 credit). **Prerequisite:** English 2 or English 2 SOL. Grade 11

AP Literature & Composition S1125A/B

An intensive study of selected world and British literature, this course encourages honor seniors to make reading/writing connections that reinforce their analysis, application, and synthesis skills as they explore the human experience. A vast array of oral and written activities prepares the students for success on the AP Exam. Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP® English Literature and Composition exam in May. 2 semesters (1 credit). **Prerequisite:** English 3 or English 3 AP. Grade 12

Business English BCTAL X21200 BLK

Students enhance reading, writing, computing, communications, and reasoning skills and apply them to the business environment. Plan, draft, and complete written compositions on a regular basis and edit their papers for clarity, engaging language, and the correct use of conventions and mechanics of written English. (*May substitute for English 4 on all endorsements except Multidisciplinary.*) 2 semesters (1 credit). Grade 12

College Preparatory English S1626A/B

This course will study topics in English such as foundational reading skills and the skills necessary for college level writing. This course is recommended for students who plan to attend TCC and scored below a 4000 (meets grade level) on the English 1 or English 2 EOC. This course will replace the 4th year of English for high school graduation requirements. *This course follows the TCC grading guidelines.*

Creative Writing S1530A/B

The study of creative writing allows high school students to earn one credit while developing versatility as a writer. Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers. **Prerequisite:** Students need an 85 average for the last two semesters in English or teacher approval. Students must have a 4 or above (2/2) on their most recent STAAR essay. This

writing course is designed especially to challenge the imagination and creativity of the student by encouraging spontaneity of expression by increasing awareness of the power of language, and by refining the individual original characteristics of language style in various literary genres. We will focus on the writing of poetry, creative nonfiction, short fiction, drama and screenplays. Students will be introduced to the workshop model and work toward a creative portfolio and a literary publication. *May substitute for English 4.* 2 semesters (1 credit). Grade 10-12

Reading 1 S1710A/B

This course is designed for regular education students who are below grade level in reading and who require more intensive reading instruction. These classes have a lower student-to-teacher ratio in order for students to receive individual reading programs based on students needs. Teachers provide systematic instruction in word study and comprehension based on student needs. Computer-aided technology may be utilized to further individualize student learning and to track student growth. 2 semesters (1 credit).

Grade 9-12**Reading 2 S1720A/B****Reading 3 S1730A/B****Debate S1430A/B**

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues. Debate offers students opportunities to develop research, critical and analytical thinking, problem solving, persuasion, social and oral communication skills. Through participation in Policy (CX), Lincoln Douglas (value), and other forms of debate, students learn to clarify their own positions on social, moral, and political issues as well as to respect dissenting viewpoints. Debate prepares students for careers in law, education, business, religion, broadcasting, public affairs, and other professions requiring critical thinking and organization. Participation in competition is required. 2 semesters (1 credit).

Grade 9-12

High School English	Semester A College Course	Semester B College Course	High School Campus/Course Section Number
English III Dual Credit	TWU 1013 A	TWU 1023 B	HHS/RHS S1160A/B
	TCC 1301 A	TCC 1302B	BHS/RHS S1094 A/B
English IV with prior credit from English III Dual Credit	TWU 2033 A	TWU 2013 B	HHS S1181A/B
	TCC 2332 A	TCC 2322 B	RHS S1180 A/B
	TCC 2322 A	TCC 2323B	BHS S1180A/B
English IV new to Dual Credit	TWU 1013 A	TWU 2013 B	HHS S1160 A/B
	TCC 1301 A	TCC 1302 B (8 weeks) & TCC 2322 (8 Weeks)	RHS S1150 A/B
	TCC 1301 A (8 weeks) & TCC 1302 A (8 weeks)	TCC 2322 B	BHS S1150A and S1170B or S1150B

TWU 1013A

TCC 1301A

English Composition I

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. 3 semester college hours.

Prerequisite: TSI compliant in writing

TWU 1023

TCC 1302

English Composition II

Intensive study if and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. 3 semester college hours.

Prerequisite: English Composition I

TWU 2013A

TCC 2322A

British Literature I

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. 3 semester college hours.

Prerequisite: English 1013 or 1301

TWU 2013B

TCC 2322

British Literature II

A survey of the development of the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. 3 semester college hours.

Prerequisite: English 1013 or 1301

TWU2033

American Literary Masterpieces

A survey of major works of American literature studied in chronological order. Students will study works of American authors in relation to their historical and cultural contexts. Particular attention will be paid to both poetry and prose. 3 semester college hours.

Prerequisite: English 1013 or 1301

ARTS & HUMANITIES



AP	<i>Advanced Placement</i>
	<i>Technology Credit</i>
SOL	<i>Speakers of Other Languages</i>
*	<i>Advanced Technical Credit Eligible</i>

SOCIAL STUDIES

**Weighted GPA credit for students entering 9th grade in 2018-2019 and beyond.*

World Geography **S4000A/B**

Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major land forms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask geographic questions. 2 semesters (1 credit).

Grade 9 or 10

World Geography Pre-AP **S4004A/B**

This course represents an in depth study of the concepts of World Geography. It provides students the opportunity to pursue focused study of the interaction of people and cultures with their physical environments in the major areas of the world. 2 semesters (1 credit).

Grade 9 or 10

AP Human Geography **S4005A/B**

The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts

and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. 2 semesters (1 credit). A College Board approved syllabus is used for this course. All students will be expected to take the AP® Human Geography exam in May. Grade 9 or 10

World History **S4090A/B**

World History Studies is a survey of the history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence. 2 semesters (1 credit).

Grade 9 or 10

World History Pre-AP **S4094A/B**

This course is an in depth study of the concepts presented in World History Studies. 2 semesters (1 credit).

Grade 9 or 10

AP World History: Modern **S4095A/B**

AP World History is designed to be the equivalent of a two semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E. to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. 2 semesters (1 credit). A College Board approved syllabus is used for this course. All students will be expected to take the AP® World History exam in May.

Grade 9 or 10

US History**S4040A/B**

In United States History Studies Since 1877, which is the second part of a two-year study that begins in Grade 8, students study the history of the United States from 1877 to the present. The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life. Students use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context. 2 semesters (1 credit).

Grade 11**AP US History****S4045A/B**

AP U.S. History is designed to be the equivalent of a two semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. 2 semesters (1 credit). A College Board approved syllabus is used for this course. All students will be expected to take the AP® United States History exam in May.

Grade 11**Personal Financial Literacy****S40006**

Personal Financial Literacy, an elective course, will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Students will apply critical thinking and problem solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. This one-half elective credit course includes instruction in methods of paying for college and other postsecondary education and training along with completing the application for federal student aid provided by the U.S. Department of Education.

Students analyze the relationship between education and training and earnings potential; evaluate the quality of potential college, postsecondary education, and training courses; evaluate the total cost of these programs; and analyze the advantages and disadvantages of various sources of funds to pay for their education. Each semester (1/2 credit).

Grade 10-12**AP Psychology****S41150**

AP Psychology is a one-year college-level course. The course will consist of a theoretical and practical component utilizing research and presentation skills. In the theoretical portion of the course the student will learn about psychological concepts and principles. In the practical portion the student will demonstrate how to apply these principles and concepts in everyday matters of human activity. Throughout the course students will review scientific literature, consult with professionals in the field, and develop research skills as they propose a psychological experiment with a culminating presentation. This will require a thorough understanding of the material, as well as an active participation in class discussions and activities. All students will be expected to take the AP® Psychology exam in May. 2 semesters (1 credit).

Grade 11-12**Sociology****S41500**

An elective course, Sociology is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society. 1 semester (1/2 credit).

Grade 11-12**AP European History****S4105A/B**

AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity. A College Board approved syllabus is used for this course. All students will be expected to take the AP® European History exam in May. 2 semesters (1 credit).

Grade 11 or 12

Psychology S41100

In this elective course, students study the science of behavior and mental processes. Students examine the full scope of the science of psychology such as the historical framework, methodologies, human development, motivation, emotion, sensation, perception, personality development, cognition, learning, intelligence, biological foundations, mental health, and social psychology. Each semester (1/2 credit).

Grade 11-12

US Government S40200

In United States Government, the focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Each semester (1/2 credit).

Grade 12

AP US Government & Politics S40250

A study of American government from the colonial period through the contemporary era, the course requires extensive research in governmental processes. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* Each semester (1/2 credit). All students will be expected to take the AP® U.S. Government exam in May. A College Board approved syllabus is used for this course.

Grade 12

Economics Emphasis on the Free Enterprise System and its benefits S50000

Economics with Emphasis on the Free Enterprise System and Its Benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Students will study the roles of the Federal Reserve System and other financial institutions, government, and businesses in a free enterprise system. Types of business ownership and market structures are discussed. The course also incorporates instruction in personal financial literacy. Students apply critical-thinking skills using economic concepts to evaluate the costs and benefits of economics issues. Each semester (1/2 credit).

Grade 12

AP Macroeconomics S50050

This course places particular emphasis on the study of national income and price determination and also develops students' familiarity with economic performance measures, economics growth and international economics. AP Macroeconomics includes topics generally covered in college courses. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* A College Board approved syllabus is used for this course. All students will be expected to take the AP® Macroeconomics exam in May. 2 semesters (1 credit).

Grade 9 or 10

US History 1 DUAL CREDIT

TWU 1013

TCC 1301

HHS S4052A

BHS/RHS S4053A

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. Includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. 3 semester college hours. **Prerequisite:** ENGL-1301 with a grade of C or TSI compliant in reading.

US History 2 DUAL CREDIT

TWU 1023

TCC 1301

HHS S4052B

BHS/RHS S4053B

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. Examines industrialization, immigration, world wars, the Great Depression, and the Cold War and post-Cold War eras. Themes that may be addressed include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. 3 semester college hours. **Prerequisite:** ENGL-1301 with a grade of C or TSI compliant in reading.

US Government DUAL CREDIT

TCC 2305

BHS/HHS/RHS S40201

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. 3 semester college hours. **Required prerequisite:** ENGL 1301 with grade of C or TSI compliant in reading.

Economics DUAL CREDIT
TCC 2301

BHS S50013

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. Emphasis on the U.S. economy. 3 semester college hours. Required for business and economics majors.

Sociology DUAL CREDIT
TCC 1301

BHS/HHS/RHS S41500


The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. Prerequisite: TSI compliant in Reading. Each semester (1/2 credit).

Grade 11-12

WORLD LANGUAGES



America

AP	Advanced Placement
	Technology Credit
SOL	Speakers of Other Languages
*	Advanced Technical Credit Eligible

*Weighted GPA credit for students entering 9th grade in 2018-2019 and beyond. Project Lead the Way. (See page 23 for more information.)

French 1

S8000A/B

This course emphasizes the practical mastery of those skills necessary for understanding, speaking, reading and writing French; develops direct communication in the language through oral/aural techniques and materials; and uses varied activities and materials to create an awareness of French culture. 2 semesters (1 credit).

Grade 9-11**French 2**

S8010A/B

This course continues to develop the student's ability to understand, speak, read and write French with emphasis on vocabulary enrichment and continued activities to increase interest in and appreciation for French culture and heritage. 2 semesters (1 credit). Prerequisite: French 1.

Grade 9-12**French 2 Pre-AP**

S8014A/B

This course exceeds the traditional course in French by including a more in-depth study of the language, French history, geography, culture and literature and by placing more stress on oral proficiency. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit). Prerequisite: French 1.

Grade 9-12**French 3 Pre-AP**

S8024A/B

Exceeds the third year course in French by including a more in-depth study of the language, French history, geography, culture, literature, and by placing more stress on oral proficiency. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit). Prerequisite: French 2.

Grade 10-12**AP French Language and Culture**

S8035A/B

Conducted in French, exceeds a fourth year course in French by including sophisticated readings from French classics and modern French publications as well as advanced writing assignments and study of French culture. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* 2 semesters (1 credit). Prerequisite: French 3.

Grade 11-12**Latin 1**

S8060A/B

The foundation language of Western Europe includes a study of the structure, inflections and terminology of Latin. Enrichment studies in Roman culture focus on the student's development of the ability to read, write, hear and speak simple Latin sentences with comprehension. 2 semesters (1 credit).

Grade 9-11**Latin 2**

S8070A/B

Development and presentation of the essential vocabulary, grammar and syntax skills are necessary for reading longer passages with comprehension as well as an understanding ancient Roman's and today's world. The student will become familiar with early European history through Caesar's *Gallic Wars*. Latin roots, prefixes and suffixes; word studies and English derivatives help develop verbal and linguistic skills. 2 semesters (1 credit). Prerequisite: Latin 1.

Grade 10-12**Latin 2 Pre-AP**

S8074A/B

This course exceeds the traditional survey course in Latin by including a more in-depth study of the language, history, geography, culture and literature, and by placing even more stress on oral proficiency. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit). Prerequisite: Latin 1.

Grade 10-12

Latin 3 Pre-AP**S8084A/B**

This course exceeds the traditional course in third year Latin by including a more in-depth study of the language, history, geography, culture and literature and by placing even more stress on oral proficiency. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit). **Prerequisite:** Latin 2.
Grade 10-12

AP Latin/Latin 4 AP**S8095A/B**

Course focuses on reading Latin poetry and the individual styles of different poets, such as Horace and Ovid with special emphasis on Vergil's epic poem *The Aeneid*. The student gains insights into the special conventions of poetry, as well as knowledge and understanding of the Greco-Roman world and mythology. Students prepare for a variation of the College Board Latin AP Exam, which may focus on poetry. Options on the AP test include Vergil and Latin literature. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP[®] Latin exam in May.* 2 semesters (1 credit). **Prerequisite:** Latin 3.
Grade 12

Spanish 1**S8110A/B**

This introductory course enables the student to learn Spanish pronunciation, to acquire a vocabulary sufficient for simple conversations, to practice basic structure patterns and to become aware of Spanish culture. 2 semesters (1 credit).
Grade 9-11

Spanish 2**S8120A/B**

Continues emphasis in oral comprehension, improvement of reading skills, identification of basic grammar patterns in written/spoken materials and an examination of culture. 2 semesters (1 credit). **Prerequisite:** Spanish 1.
Grade 9-12

Spanish 2 Pre-AP**S8124A/B**

This course exceeds the traditional Spanish class by including a more in-depth study of the language itself (grammatical structures), Spanish and Latin American history, geography, culture and literature. The skills of reading, writing, listening and speaking are stressed in order to achieve the ultimate goal of proficiency. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit).
Grade 9-11

**AP Spanish Language & Culture/AP Spanish 4 S8145A/B**

This course, conducted mainly in Spanish, exceeds a regular level fourth year course in Spanish by including sophisticated reading assignments from Spanish classics and modern Spanish publications and requiring more advanced criticisms and analyses written in Spanish. This course prepares the student to take the AP Spanish Language Exam. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. AP courses provide students with a learning experience equivalent to that obtained in college introductory courses and will reflect the level of rigor and challenge provided by such a course. College Board approved syllabus is used for this course. All students will be expected to take the AP[®] Spanish Language & Culture exam in May.* 2 semesters (1 credit). **Prerequisite:** Screening and oral interview, Spanish 1 and Spanish 2.
Grade 11-12

AP Spanish Literature & Culture/AP Spanish S8155A/B

This course supports the continued development of proficiency through the understanding of Spanish literature, history, and culture. Students will analyze works from the AP Spanish Literature Reading List. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in college introductory courses and will reflect the level of rigor and challenge provided by such a course. A College Board approved syllabus is used for this course. All students will be expected to take the AP[®] Spanish Literature & Culture exam in May.* 2 semesters (1 credit). **Prerequisite:** Spanish 4.
Grade 10-12

Ethnic Studies: Mexican American Studies S4050A/B

In Ethnic Studies: Mexican American Studies, students learn about the history and cultural contributions of Mexican Americans. Student explore history and culture from an interdisciplinary perspective through a variety of rich primary and secondary source materials. The course emphasizes events in the 20th and 21st centuries, but students will also engage with events prior to the 20th century for a complete historic and cultural perspective. 2 semesters (1 credit).
Grades 10-12

Spanish Cultures AP**S8220A/B**

The Spanish Cultures course allows a student who has previously taken AP V (Spanish Literature and Culture) another opportunity to interact with the material and another chance to take the AP exam. Because the level of thought/maturity is for 11th/12th graders, another year of growth/development could help them to be more successful. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* 2 semesters (1 credit). **Prerequisite:** Spanish 4.
Grade 11-12

Spanish/American Sign Language

Spanish 1 for Native Speakers **S8160A/B**

This course does not require that students come to class already speaking Spanish. It is, however, approached from the point of view of students who may have Spanish in their background or familiar with cultural events like quinceañeras. These students move to Spanish 2 or Spanish 2 – Spanish for Native Speakers. 2 semesters (1 credit).
Grade 9-10

Spanish 2 for Native Speakers **S8170A/B**

These courses, conducted entirely in Spanish, are for students of varying levels of ability as native speakers and are designed to improve their listening, speaking, reading and writing skills. They also include additional linguistic and cultural elements, as well as teaching methods more appropriate for native speakers of the language. 2 semesters (1 credit).
Prerequisite: Screening and oral interview.
Grade 10-12

AP Spanish Language & Culture for Native Speakers/ AP Spanish 4 **S8190A/B**

Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in college introductory courses and will reflect the level of rigor and challenge provided by such a course. College Board approved syllabus is used for this course. All students will be expected to take the AP® Spanish Language & Culture exam in May.
Grade 11-12

AP Spanish Literature & Culture for Native Speakers/ AP Spanish 5 **S8155A/B**

This course supports the continued development of proficiency through the understanding of Spanish literature, history, and culture. Students will analyze works from the AP Spanish Literature Reading List. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving.* AP courses provide students with a learning experience equivalent to that obtained in college introductory courses and will reflect the level of rigor and challenge provided by such a course. College Board approved syllabus is used for this course. All students will be expected to take the AP® Spanish Literature & Culture exam in May. **Prerequisite:** Spanish Native Speakers who have passed the AP Spanish 4 Exam and passed Cultural and Linguistic Topics. 2 semesters (1 credit).
Grade 11-12

American Sign Language 1 **S8480A/B**

Mastery of skills necessary for communicating through ASL. It includes an introduction to Deaf Culture, Deaf Community, and basic grammar elements of the language. It is important for students to check with potential colleges/universities to be sure that these institutions will accept ASL to satisfy the foreign language entrance requirement. 2 semesters (1 credit).
Grade 9-11

American Sign Language/Mandarin Chinese

American Sign Language 2 **S8490A/B**

This course continues emphasizes extending the skills introduced in Level 1. It includes Deaf History in America, Deaf Culture, Deaf Literature and advanced grammar elements of the language. 2 semesters (1 credit). **Prerequisite:** American Sign Language 1.
Grade 10-12

American Sign Language 3 **S8500A/B**

This course continues to extend the skills introduced in Levels 1 and 2. It includes advanced ASL storytelling and literature, advanced ASL grammar and vocabulary, issues in the Deaf community and an introduction to the interpreting profession. 2 semesters (1 credit). **Prerequisite:** American Sign Language 2.
Grade 11-12

American Sign Language 4 **S8510A/B**

This course continues to extend the skills introduced in Levels 1, 2, and 3. Includes Deaf Humor, advanced ASL storytelling and literature, advanced vocabulary and a more in-depth study of the interpreting profession. 2 semesters (1 credit). **Prerequisite:** American Sign Language 3.
Grade 12

American Sign Language 3 **DUAL CREDIT** **BHS/RHS S8520A/B**

Intergrates and refine expressive and receptive skills in American Sign Language, including recognition of sociolinguistic variation. A practice oriented approach to language acquisition.

American Sign Language 4 **DUAL CREDIT** **BHS/RHS S8530A/B**

An integration of expressive and receptive skills in American Sign Language with emphasis on grammar, linguistics, literature, and discourse styles at an intermediate level. Provides students with information on linguistic and cultural variations.
Prerequisite: American Sign Language 3.

Mandarin Chinese 1 **S8710A/B**

Level 1 Chinese introduces students to the basics of the Chinese language: Pin Yin, writing, speaking of the characters and other aspects. Basic vocabulary and grammar rules for simple conversations. 2 semesters (1 credit).
Grade 9-11

Mandarin Chinese 2 **S8720A/B**

Students build on foundations from level I. These include a larger vocabulary, more advanced grammar, improved reading and speaking skills. Students will have a higher level of understanding of the Chinese language and culture. 2 semesters (1 credit). **Prerequisite:** Mandarin Chinese 1.
Grade 10-12

Mandarin Chinese/Art

Mandarin Chinese 3 Pre-AP S8734A/B


This level exceeds the traditional course in third year Mandarin by including a more in-depth study of the language, Chinese history, geography, culture and literature while placing emphasis on oral proficiency. *Extra time is required on the part of the Pre-AP student for class preparation, outside reading, sophisticated writing assignments and completion of complex projects or labs with complex problem solving.* 2 semesters (1 credit). **Prerequisite:** Mandarin Chinese 2.
Grade 10-12

AP Chinese Language & Culture/AP Chinese 4 S8745A/B

This course, conducted mainly in Mandarin Chinese, includes sophisticated reading assignments, advanced criticisms and analyses written in Mandarin Chinese. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving.* AP courses provide students with a learning experience equivalent to that obtained in college introductory courses and will reflect the level of rigor and challenge provided by such a course. College Board approved syllabus is used for this course. All students will be expected to take the AP[®] Chinese Language & Culture exam in May. 2 semesters (1 credit). **Prerequisite:** Mandarin Chinese 3.
Grade 10-12

FINE ARTS



AP	Advanced Placement
	Technology Credit
SOL	Speakers of Other Languages
*	Advanced Technical Credit Eligible

Note: Except for instruction in basic processes, students will furnish their own materials in some Fine Arts courses. All classes are year-long comprehensive courses. Fees for supplies are determined and communicated to class participants at the campus level.

**Weighted GPA credit for students entering 9th grade in 2018-2019 and beyond. Project Lead the Way. (See page 23 for more information.)*

Art 1 S9000A/B

A prerequisite for all other Visual Arts courses, Art 1 offers experiences in various art processes, structures, theories and historical developments. Activities include drawing, painting, print making, sculpture, mixed media, design and cultural arts. 2 semesters (1 credit).
Grade 9-12

Art

Art 1 Select S9004A/B

This first year of art is for students with advanced skills. This course is similar to regular Art 1 but places greater emphasis on technical control and media experimentation. 2 semesters (1 credit). **Prerequisite:** Adviser approval, 8th grade art.
Grade 9

Art and Media Communications 1 S9010A/B

This class combines rigorous and relevant experiential study of modern, post-modern, and contemporary visual art and design with student learning in media literacy and technology applications. Creation and analysis of student artworks will be balanced with explorations into contemporary practices across the visual and commercial arts fields. Students will learn how to bridge traditional hand skills with current technology applications to create new media such as animations, digital images, multimedia presentations, digital videos, websites, and interactive or site-based installations and performances.

Art 2 Select S9025A/B

This second year of art is for students with advanced skills and good attendance. This course places greater emphasis on technical control, higher level thinking skills and media experimentation. 2 semesters (1 credit). **Prerequisite:** Adviser approval, Art 1.
Grade 10-12

Art 2 - Drawing S9021A/B

This second year of art takes a more analytical approach and is based on various aspects of drawing skills. Multiple approaches to a variety of drawing techniques will be explored. 2 semesters (1 credit). **Prerequisite:** Art 1.
Grade 10-12

Art and Media Communications 2 S9020A/B

Students build upon the foundational skills taught in the Art and Media Communications I survey course and provides opportunities for students to apply knowledge of contemporary visual art and design practices with greater depth and complexity. Hands-on, experiential learning in visual art is interwoven with technology applications, media literacy, and the 21st century skills as students explore participatory media and the practice of transmedia storytelling. Students learn how new media such as digital imagery, multimedia presentations, web videos, online and social media, virtual worlds, game designs, and animations intersect with contemporary art, specifically studio art, sculpture and installation art.

Art 3 - Drawing S9031A/B

Advanced art provides an in-depth study of the schools and styles of drawing and various associated art processes. Creative activities offer problem-solving techniques that will lead the students to develop their unique styles. 2 semesters (1 credit). **Prerequisite:** Art 1 and Art 2.
Grade 11-12

Art 3 - Photo S9037A/B

Students will learn to apply the skills and process learned in Art and Media Communications 1 and 2 to create a personal body of work influenced by digital imagery, multimedia presentations, web videos, online and social media, virtual worlds, game designs, and animations intersect with contemporary art and historical art.

Art 4 - Drawing **S9041A/B**

Experiences provide opportunities to explore and develop individual style in the art processes, technical skills and critical evaluation growth and development. Students select an area to explore in great detail, evaluating concepts and styles. Students' styles reflect self awareness and place in the environment. 2 semesters (1 credit). **Prerequisite:** Adviser approval, contract, Art, 1, 2 and 3.

Grade 12

AP Drawing **S9053A/B**

Opportunity to produce art that reflects knowledge of the elements and the principles of art and their application. Students in the AP course will reflect three major concerns that are constants in the teaching of art: (1) a sense of quality; (2) concentration visual interest or problem; and (3) breadth of experience in formal, technical and expressive means. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP® Studio Art: Drawing exam in May.* 2 semesters (1 credit). **Prerequisite:** Adviser approval, contract, Art 3.

Grade 12

Art 2 - Ceramics **S9026A/B**

This course will focus on the three dimensional aspects of art with detailed instruction on the potter's wheel, hand building and other 3D methods. Multiple sculptural media will be explored. 2 semesters (1 credit). **Prerequisite:** Art 1.

Grade 10-12

Art 3 - Ceramics **S9036A/B**

Multiple approaches to a variety of techniques and media will be explored. This class will emphasize the study of the three dimensional aspects of art. Activities will include the potter's wheel and more advanced throwing techniques, hand building and other sculptural methods. 2 semesters (1 credit). **Prerequisite:** Art 2 - Ceramics.

Grade 10-12

Art 2 - Painting **S9023A/B**

This second year of art takes a more analytical approach and is based on various aspects of painting skills. Multiple approaches to a variety of painting techniques will be explored. 2 semesters (1 credit). **Prerequisite:** Art 1.

Grade 10-12

Art 2 - Sculpture **S9024A/B**

This course will address a basic interpretation of sculptural problems in depth and space. The elements and principles of design will be addressed through additive, subtractive and fabricated processes. A variety of approaches to representation, abstraction and expression may be a part of the student's portfolio. 2 semesters (1 credit). **Prerequisite:** Art 1.

Grade 10-12

**Art 3 Painting****Art 3 Sculpture****Art 4 Painting****S9033A/B****S9034A/B****S9042A/B****AP Art History****S9054A/B**

The AP offering in Art History is designed as an introductory college course in art history: an understanding and knowledge of architecture, sculpture, painting and other art forms within diverse historical and cultural contexts. Students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP® Art History exam in May.*

Grade 11-12

AP 2-D Art and Design**S9051A/B**

Students will have an opportunity to develop unique approaches to problem solving and style development. Portfolio demonstrates proficiency in two-dimensional design using a variety of art forms. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP® Studio Art: 2-D Design exam in May.* 2 semesters (1 credit). **Prerequisite:** Adviser approval, contract, Art 1 and 2.

Grade 11-12

AP 3-D Art and Design**S9052A/B**

Broad interpretation of sculptural issues in depth and space. Include mass, volume, form, plane, light and texture. Such elements and concepts can be articulated through additive, subtractive and/ or fabrication processes. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. A College Board approved syllabus is used for this course. All students will be expected to take the AP® Studio Art: 3-D Design in exam in May.* 2 semesters (1 credit).

Prerequisite: Adviser approval, contract, Art 1 and 2.

Grade 11-12

Floral Design**BCTAL X0602A/B
X06021 BLK**

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. credit)

Grade 9-12**Advanced Floral Design****BCTAL X0604A/B
X06026 BLK**

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design need and expectations of clients and propose and evaluate appropriate creations. From Conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises. 1 semester (1 credit).

Grade 11-12**Theatre 1****S9080A/B**

Combines theory and exercise in body control, voice, pantomime, interpretation, characterization and stage action and role study. Attendance is required at one fall and one spring production where student is enrolled. This course is a **prerequisite** for all other theatre courses except Technical Theatre 1. 2 semesters (1 credit).

Grade 9-12**Theater 1 Select****S9081A/B****Prerequisite:** Advisor approval..**Theatre 2****S9082A/B**

Analysis and study of auditioning, scripts, play writing, film production, Shakespeare and choreography. Attendance is required at one fall and one spring production where student is enrolled. The course also provides opportunities to develop knowledge of basic stagecraft. 2 semesters (1 credit).

Grade 10-12**Theatre 3****S9083A/B**

Students will be expected to develop a higher level of expertise, depth of research and preparation of an independent project in order for students to stand on their own in college and professional situations. Attendance is required at one fall and one spring production at home campus, plus one amateur or professional performance. 2 semesters (1 credit).

Grade 11-12**Theatre 4****S9084A/B**

Activities include a juried recital, research project and attendance at one fall and one spring production at home campus plus two professional performances. Students function as independent actors, directors or playwrights. 2 semesters (1 credit).

Prerequisite: Teacher Approval.Grade 12**Technical Theatre 1****S9121A/B**

This course deals with an introduction to, and application of, stage craft. Attendance is required at one fall and one spring production where student is enrolled. Class size will not exceed twenty students. 2 semesters (1 credit). **Prerequisite:** Teacher Approval.

Grade 9-12**Technical Theatre 2****S9122A/B**

An in-depth study of stagecraft with an emphasis skills as they relate to theatrical lighting, sound and design. Attendance is required at one fall and one spring production at home campus. 2 semesters (1 credit). **Prerequisite:** Technical/Crew Theatre 1, Teacher Approval.

Grade 11-12**Technical Theatre 3****S9123A/B**

Development in all areas of technical theatre; design, leadership, departmental design, facility management, technical support and production. May require time outside of school hours, weekends and holidays. Attendance required at one fall and one spring production at student's home campus, plus one amateur/ professional performance. 2 semesters (1 credit). **Prerequisite:** Technical Theatre 1 & 2 or crew, Teacher Approval.

Grade 11-12**Technical Theatre 4****S9124A/B**

A continuation and an intensification of Tech Theatre III. Attendance required at one fall and one spring production at student's home campus, plus two professional theatre productions. 2 semesters (1 credit). **Prerequisite:** Tech. Theatre 1, 2 & 3, Crew, Teacher Approval.

Grade 12

Band

Band 1 **9181A/B**
Marching, concert playing, sight reading, small ensemble and individual instrumental technique. Public performance is an integral part of the band experience. Students grades nine-twelve comprise various classes according to achievement levels monitored by auditions. These groups may participate in UIL competition. *Note: Each fall semester of completed marching band fulfills a semester of required PE. Two fall semesters are required for 1 full credit.* **Prerequisite:** Eighth grade band, approval of middle school band director.
Grade 9-11

Band 2 **S9182A/B**
Band 3 **S9183A/B**
Band 4 **S9184A/B**

Color Guard 1 **S7421A/B**
Color Guard 2 **S7422A/B**
Color Guard 3 **S7423A/B**
Color Guard 4 **S7424A/B**
Membership is determined by audition during the sixth six weeks grade-reporting period. Color Guard can be enrolled in as either a fine art credit or physical education credit. Activities include preparations and rehearsals for marching band performances, individual performances, festivals, school activities and Winter Guard competitions. Eligibility requirements cited in the Student Handbook and Code of Conduct for cheerleaders, drill team, student council officers, club officers and band officers would also apply to Color Guard members.
(.5 to 1.5 credit). **Prerequisite:** Audition.
Grade 9-12

Jazz Band 1 **S9191A/B**
The course focuses on study and performance of modern, popular and/or jazz music. 2 semesters (1 credit). **Prerequisite:** Audition, current enrollment in Band Level 1, 2, 3 or 4.
Grade 9-12

Jazz Band 2 **S9192A/B**
Jazz Band 3 **S9193A/B**
Jazz Band 4 **S9194A/B**

Instrumental Ensemble 1 **S9201A/B**
This course focuses on study and performance of a wide variety of ensemble and individual music selections. 2 semesters (1 credit). **Prerequisite:** Audition, current enrollment in Band Level 1, 2, 3 or 4.
Grade 9-12

Instrumental Ensemble 2 **S9202A/B**
Instrumental Ensemble 3 **S9203A/B**
Instrumental Ensemble 4 **S9204A/B**

NOTE: The substitution activities of drill team, cheerleading and marching band may be awarded one PE credit toward graduation that may satisfy the physical education credit requirement.

Music

Choral Music 1 **S9221A/B**
Emphasis on choral singing, music theory, listening and performance. All students comprise various classes according to achievement levels by audition. The classes may be composed of all males or all females, or mixed. These groups may participate in UIL competition. 2 semesters (1 credit). **Prerequisite:** Placement determined by Choral Director.
Grade 9-12

Choral Music 2 **S9222A/B**
Choral Music 3 **S9223A/B**
Choral Music 4 **S9224A/B**

Vocal Ensemble 1 **S93411A/B**
Advanced select ensembles perform musical styles including traditional choral music, all- state repertoire, madrigals, show choir, jazz, swing and popular music. Performance is stressed and time is devoted to choreography. 2 semesters (1 credit). **Prerequisite:** Audition, Director approval, concurrent enrollment in choral music class.
Grade 9-12

Vocal Ensemble 2 **S9342A/B**
Vocal Ensemble 3 **S9343A/B**
Vocal Ensemble 4 **S9344A/B**

AP Music Theory **S9820A/B**
This course is an advanced study of music literacy focusing on the ability to recognize, understand, describe and recreate the materials and processes of music that are heard or presented in notation. *Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide.* 2 semesters (1 credit). **Prerequisite:** Concurrent enrollment in a performing ensemble or completion of and satisfactory performance on an entrance assessment.
Grade 11-12

Dance 1 **S9451A/B**
In Dance students study four basic strands - perception, creative expression/performance, historical and cultural heritage and critical evaluation. Dance students develop perceptual thinking and moving abilities in daily life that promote understanding of themselves and others and allow them to interact effectively in the community. *Dance can be enrolled in as either a fine art credit or a physical education credit.* 2 semesters (1 credit).
Grade 9-12

Dance 2 **S9452A/B**
Dance 3 **S9453A/B**
Dance 4 **S9454A/B**

BUSINESS AND INDUSTRY



AP	Advanced Placement
	Technology Credit
SOL	Speakers of Other Languages
*	Advanced Technical Credit Eligible

JOURNALISM

*Weighted GPA credit for students entering 9th grade in 2018-2019 and beyond. Project Lead the Way. (See page 23 for more information.)

Journalism X1280A/B

Principles, Arts, AV & Communications

This course, an introduction to mass media, emphasizes the type of writing necessary for publishing a school newspaper. The class trains students in advertising and business management of a publication and enhances the student's awareness of his responsibility in learning to meet deadlines. Students also learn public relations skills. The class publishes a newspaper in the spring. 2 semesters (1 credit).

Grade 9-12

Yearbook 1 X1290A/B

Graphic Design & Illustration

This course includes the study and application of the elements and processes of developing and producing the school yearbook. 2 semesters (1 credit). **Prerequisite:** Adviser approval and contract.

Grade 10-12

Yearbook 2 X1300A/B

Advanced Graphic Design & Illustration

This course studies the role of advertising in publication cost, the preparation of ads, and practice in advertising sales. It is also a study of graphics, design, and layout with emphasis on preparation of press ready materials. This course may provide technology applications credit for **Digital Design & Media Production**. 2 semesters (1 credit). **Prerequisites:** Adviser approval, contract, Yearbook I.

Grade 11-12

Yearbook 3 X1310A/B

Practicum Graphic Design & Illustration

This course is the study of advanced publication design, writing, and editing. This course may provide credit in Desktop Publishing, which is approved for Technology Applications credit. 2 semesters (2 credits). **Prerequisite:** Adviser approval, contract, Advanced Journalism: Yearbook 2.

Grade 12

Newspaper 1 X1320A/B

Graphic Design & Illustration

This course includes the study of basic news writing, photography, advertising, and desktop publishing in the preparation of the school paper. 2 semesters (1 credit). **Prerequisite:** Journalism and/or Adviser approval and contract.

Grade 10-12

Newspaper 2 X1330A/B

Advanced Graphic Design & Illustration

Students develop a newspaper from the initial concept through writing, editing, photo/production, and publication. Students produce features, editorials, and other types of articles including, critical reviews, columns, investigative stories and conceive and develop advertising campaigns. 2 semesters (1 credit). **Prerequisite:** Adviser approval, contract, Advanced Journalism: Newspaper 1.

Grade 11-12

Newspaper 3 X1340A/B

Practicum Graphic Design & Illustration

Students study advanced publication design and production including, editing, staff management, computer desktop publishing, advertising layout/design, and photo editing. 2 semesters (2 credits). **Prerequisite:** Adviser approval, contract, Advanced Journalism: Newspaper 2.

Grade 12

Commercial Photography X1350A/B

Familiarizes students with photographic composition, camera use, and film process through the opportunity to take pictures and to work on layout problems for the school newspaper and yearbook. Students work as members of the school publications photography staff. 2 semesters (1 credit).

Grade 9-12

AGRICULTURE, FOOD AND
NATURAL RESOURCES

Principles of Agriculture, Food & Natural Resources

BCTAL X0605A/B

Students develop a supervised agriculture experience program. They will also understand the historical, current and future significance of the agricultural industry. Explains the relationships between agriculture and the environment. 2 semesters (1 credit)

Grade 9-10

Wildlife, Fisheries & Ecology Management

BCTAL X0630A/B

Examines the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources. Students will also examine the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs. Students are able to obtain their Hunter Safety Certification during the course if they pass their exam. (1 credit).

Grade 9-12

Livestock Production

BCTAL X05930 BLK

Students apply principles of livestock breeding and nutrition in predicting the impact of current advances in genetics. They also examine the interrelationship of plants and animals. 1 semester (1 credit).

Grade 10-12

Equine Science/Small Animal Management
BCTAL X05940/X05900 BLK

In Equine Science, students analyze the importance of the equine industry; nutrition, anatomy and physiology. They also study the maintenance of equine health and soundness. Discuss issues concerning biotechnology and animal welfare policies. Small Animal Management students will acquire knowledge and skills related to small animals and the small animal management industry. This course may address topics related to small animals such as dogs and cats, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must acquire and enhance academic knowledge and skills related to animal systems regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of setting. 2 semesters (1/2 credit) each class.

Grade 10-12

Advanced Animal Science **BCTAL X0592A/B**
(Science Credit)

Students acquire knowledge and skills related to animal systems. They develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction allows for the application of scientific and technological aspects of animal science.

Recommended prerequisite: Principles of Agriculture, Food & Natural Resources. 2 semesters (1 credit).

Grade 11-12 1 semester (1 credit) **X05925 BLK**

Floral Design **BCTAL X0602A/B**
(Fine Arts Credit)

Exposes students to the basic techniques of floral design. This class is project based with many large and small projects used to evaluate the progress of the student. There are lots of hands on activities to involve the students in techniques required in the floral industry. **Recommended prerequisite:** Principles of Agriculture, Food & Natural Resources. 2 semesters (1 credit).

1 semester (1 credit) **X06021 BLK**

Grade 9-12

Advanced Floral Design **BCTAL X06026 BLK**

In this course, students build on the knowledge from the Floral Design course and are introduced to more advance floral design concepts, with an emphasis on specialty designs and specific occasion planning, this course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design need and expectations of clients and propose and evaluate appropriate creations. From Conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore and emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises. 1 semester (1 credit).

Grade 11-12

Horticulture Science 1 **BCTAL X06008 BLK**

Focuses on the identification, production and care of plants. The students will study propagation, fertilizing, transplanting, and growing various plants. Students will also investigate the various career pathways within the horticulture industry. 1 semester (1 credit).

Grade 10-12

Greenhouse Operation and Production
BCTAL X06009 BLK

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices in an almost completely hands on and lab based environment. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems; such as Nursery Production, Greenhouse, Pesticides, Hydroponics, Fertilizers, Pest Management, and Plant Propagation. 1 semester (1 credit).

Grade 10-12

Advanced Plant & Soil Science **BCTAL X05910 BLK**
(Science Credit)

Plant and Soil Science provides a way of learning about the natural world. Students learn how plant and soil science is the basis for many other fields of science. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. **Recommended prerequisite:** Principles of Agriculture, Food & Natural Resources. 1 semester (1 credit).

Grade 11-12

Veterinary Medical Applications **BCTAL X0515A/B**

Students must actively seek apprenticeship placement with a local veterinary clinic and work directly with a certified veterinary technician or veterinarian to be eligible for certification. This course is designed to prepare students for careers in the field of veterinary medicine. Students will engage in classroom-based instruction, internships, job shadowing, and/or employment opportunities to gain essential knowledge and skills necessary to be successful in the completion of their certification. Students will have the opportunity to complete the National Veterinary Technician certification exam to become certified veterinary technicians. 2 semesters (1 credit).

Prerequisites: Equine Science, Small Animal Management, or Livestock Production.

Grade 11-12

**Practicum in Agriculture, Food & Natural Resources -
 Veterinary Medicine** **BCTAL X0516A/B**

Students must actively seek apprenticeship placement with a local veterinary clinic and work directly with a certified veterinary technician or veterinarian to be eligible for certification. This course is designed to prepare students for careers in the field of veterinary medicine. Students will engage in classroom-based instruction, internships, job shadowing, and/or employment opportunities to gain essential knowledge and skills necessary to be successful in the completion of their certification. Students will have the opportunity to complete the National Veterinary Technician certification exam to become certified veterinary technicians. **Recommended prerequisite:** Principles of Agriculture, Food & Natural Resources. 2 semesters (2 credits).

Grade 11-12

Agriculture, Food and Natural Resources/ Architecture and Construction

Agriculture Mechanics and Metal Technologies

BCTAL X0518 BLK

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. 2 semesters (2 credits).

Grade 11-12

Mathematical Applications in Agriculture Food & Natural Resources

BCTAL X0512A/B

(Mathematics credit)

BCTAL X0512BLK

In this course students will apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. **Prerequisite:** Algebra 1. 2 semesters (1 credit).

Grade 10-12

ARCHITECTURE AND CONSTRUCTION



Civil Engineering & Architecture (PLTW)

X0460A/B

Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects. (1 credit)

Grade 10-12

Construction Technology

BCTAL X0671A/B

Students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. 2 semesters (2 credits).

Grade 9-12

Architecture and Construction / Transportation, Distribution and Logistics

Construction Technology 2

BCTAL X0672A/B

Students build on the knowledge base from Construction Technology and are introduced to exterior and interior finish out skills. 2 semesters (2 credits).

Grade 10-12

Practicum Construction Technology 3

BCTAL X0673A/B

An occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities, work ethics and job-related study in the classroom. 2 semesters (2 credits).

Grade 11-12

Practicum Construction Technology 4

BCTAL X0674A/B

2 semesters (2 credits).

Grade 12

Interior Design

X0920A/B

A technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability, and compete in industry. 2 semesters (1 credit). **Prerequisites:** Algebra I and English I.

Grade 10-11

Advanced Interior Design

X0930A/B

A technical laboratory course that includes the application of Students use interior design theory, layout and design lines, symbols, and drawings; demonstrate knowledge of use of color in design; and demonstrate knowledge of the principles of computer-aided drafting. 2 semesters (1 credit). **Prerequisites:** English II, Geometry, and Interior Design I.

Grade 11-12

TRANSPORTATION, DISTRIBUTION AND LOGISTICS



Energy Power and Transportation Systems

BCTAL X19000 BLK

Introduces students to the business and industries of the transportation careers. Student will learn to understand the interaction between various vehicle systems, and the logistics used to move goods and services. Students prepare to meet the expectations of the employers in this industry. 2 semesters (1 credit).

Grade 9-12

Principles of Transportation Systems BCTAL X19050 BLK

In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it related to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. 1 semester (1 credit)
Grade 9-12

Automotive Technology BCTAL X1910A/B

Job specific training for employment in the automotive technician career field. It includes the use of repair manuals, hands-on service, and the preparation for four of the Automotive Service Excellence (ASE) automotive certifications: Engine Performance, Electrical/Electronic Systems, Suspension/Steering and Brakes. 2 semesters (2 credits).
Grade 10-12

Automotive Technology 2 BCTAL X1920A/B

Students learn the theory of operation of automotive vehicle systems and associated repair practices in a pre-employment laboratory. This course is advanced training and preparation for the Automotive Service Excellence (ASE) Certification in Engine Performance, Electrical/Electronic Systems, Suspension and Steering and Brakes. 2 semesters (3 credits).
Grade 10-12

Advanced Automotive Technology 3 BCTAL X1925A/B

Designed to give students supervised practical application of knowledge and skills. Practicum experience occurs in a work place environment appropriate to the nature and level of experience. Students are required to secure and maintain employment. 2 semesters (3 credits).
Grade 12

**Aircraft Technology Dual Credit TCC X0650A/B
 Advanced Aircraft Technology Dual Credit X0660A/B**

Students will take aviation courses at the Alliance Airport. After high school graduation students continue the program at TCC and become licensed Airframe and Power plant (A&P) Mechanics. Students must take the placement test before fall registration for TCC and have an 80 overall average. Prerequisite: Be TSI compliant in reading, writing, and math. 2 semesters (3 credits).
Grade 11-12

ARTS, A/V TECHNOLOGY AND COMMUNICATION



Graphic Design and Illustration X2850A/B

Students apply information, technology applications using information management, internet, email, writing and publishing, spreadsheet or database applications for art and design projects. Exhibits ethical conduct related to client confidentiality, privacy, proper credit for ideas. 2 semesters (1 credit).
Grade 9-12

Graphic Design and Illustration 2 X2860A/B

Students apply knowledge using technology applications in design projects. Analyze impact of visual communications on society, marketing and industry. Applies technical skills for efficiency. 2 semesters (1 credit).
Grade 10-12

Animation X2870A/B

Students demonstrate appropriate use of hardware and software components, electronic storage devices, sound editing. Students create and modify solutions by combining graphics, images and sound while applying principles of design. Demonstrate knowledge of publishing and delivering products in a variety of media formats. 2 semesters (1 credit).
Grade 10-12

Animation 2 X2880A/B

Students develop a technical understanding of communication systems, use production elements; transitions, edits, framing, angle and lighting techniques. Learn advanced animation principles and applications. 2 semesters (1 credit).
Grade 11-12

**Fashion Design X1870A/B
 Fashion Design 2 X1871A/B**

This laboratory course focuses on careers in the fashion and textile/apparel industries. Students will be exposed to the apparel production process from design concept to finished product. Course content includes apparel construction, care, and maintenance. 2 semesters (1 credit).
Grade 10-12

Practicum Fashion Design 1 X1875A/B

Practicum Fashion Design 2 X1876A/B

Students apply knowledge related to employment, maintaining a career portfolio, and understanding the business aspects of fashion with emphasis on promotion and retailing. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. 2 semesters (3 credits).
Grade 11-12

 **Audio Video Production 1** BCTAL X0340A/B

Students develop knowledge of audio video scripts, file formats and a variety audio equipment. Students demonstrate cinematography techniques through student production, process and analysis. 2 semesters (2 credits).

Grade 10-12

 **Advanced Video Production 2** **DUAL CREDIT**
BCTAL X0330A/B

Students apply decision making skills to pre-production considerations, to sequential production process and to digital editing formats for distribution. Students monitor equipment and demonstrate understanding of compatibility issues and solutions. 2 semesters (2 credits).

Grade 11-12

 **Practicum Video Production 3** BCTAL X0335A/B

This course implements every aspect of running a production facility from the technical side to the business side of the industry. Students will receive “hands-on” experience working with actual real world clients and their needs. 2 semesters (2 credits)

Grade 12

 **Advanced Audio Production 2** BCTAL X0345A/B

Provides job-specific training for entry level employment as a recording engineer or music producer. Students learn a variety of skills essential to the music industry such as microphone placement, audio board operation, mixing/producing, and working with digital software instruments. Students make a final mix-down, work with MIDI, audio dynamics and the physics of sound. 2 semesters (2 credits).

Grade 11-12

 **Practicum Audio Production 3** **DUAL CREDIT**
BCTAL X0347A/B

This course may be implemented in an advanced audio, video, or animation format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities with client contact meeting specific project requirements. 2 semesters (2 credits).

Grade 12

Professional Communications X03430

(Speech Credit)

Blends written, oral, and graphic communication in a career-based environment. Students develop and expand the ability to write, read, edit, speak, listen, apply software applications, and manipulate computer graphics. Each semester (1/2 credit).

Grade 9-12

All courses are not available every semester. Each campus offers courses based on student interest. Note: The Advanced Technical Credit (ATC) Program can help students earn college credit, taught by a teacher who has had special training.

HOSPITALITY AND TOURISM



Culinary Arts 1 BCTAL X0351A/B

This laboratory-based course begins with the fundamentals and principles of the art of food preparation and includes management and production skills and techniques. Students can pursue a national sanitation certification and other appropriate industry certifications. The knowledge and skills required for careers in the restaurant, food, and beverage industry are practiced as food is prepared for campus based restaurant. 2 semesters (2 credits).

Grade 10-12

Practicum Culinary Arts 2 BCTAL X0352A/B

Students continue to refine their knowledge and skills required for careers in the restaurant, food, and beverage industry. Students can pursue a national sanitation certification and other appropriate industry certifications. Lab activities involve food production for a campus based restaurant. 2 semesters (2 credits).

Grade 11-12

Culinary Arts 3 BCTAL X0353A/B

Students continue to learn and practice advanced knowledge and skills related to the restaurant, food and beverage industry. Students will also continue to earn nationally recognized certifications. Additionally, students will be provided project-based learning opportunities and will master the skills needed to succeed in the industry and postsecondary education. 2 semesters (2 credits).

Grade 11-12

Practicum Culinary Arts 3 BCTAL X0354A/B

(Work-Based Learning)

In this work-based learning program, students will secure a job for the school year in the restaurant, food and beverage industry which is evaluated by the classroom teacher and employer. Students are required to work a minimum of 15 hours per week. Students continue to learn and practice advanced knowledge and skills related to the restaurant, food and beverage industry. Students will also continue to earn nationally recognized certifications. Additionally, students will be provided opportunities participate in a learning experience that combines classroom instructions with real-world career opportunities. 2 semesters (3 credits).

Grade 11-12

Hotel Management BLK/Restaurant Management BLK
BCTAL X25070/X25080

Emphasizes the principles of planning, organizing, staffing, directing, and controlling the business management of a variety of hotel establishments and food service operations. Students gain insight into the operation of a well-run restaurant and hotel. **Students are required to take both Hotel and Restaurant Management.** 2 semesters (2 credits).

Grade 10-12

Hospitality and Tourism/ Business Management & Administration

Travel and Tourism *BCTAL X2505A/B*
Orientation into the Sabre computer system for planning of cruises, air reservations, car rental, hotel accommodations and rail service. Also, includes sales and marketing, human resources, accounting, security and engineering. Instruction delivered through school-based pre-employment lab training or through work-based delivery arrangements. 2 semesters (2 credits).
Grade 10-12

Practicum in Hospitality and Tourism *BCTAL X2506A/B*
Integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students learn employability skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. 2 semesters (2 credits).
Grade 12

Food Science (*Science Credit*) *X0380A/B*
This technical lab course addresses food science principles; nutrition and wellness; food technology; world food supply; managing multiple family, community and wage-earner roles; and career options in nutrition, food science and food technology. Instructional topics include diet-related disorders, diets appropriate to the life cycle and other factors, therapeutic diets, chemical and physical changes that affect food safety and sanitation standards, market research, legal issues and food policies. 2 semesters (1 credit).
Grade 11-12

BUSINESS MANAGEMENT AND ADMINISTRATION



Principles of Business, Marketing & Finance *X2470A/B*
Students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. 2 semesters (1 credit).
Grade 9-10

Practicum Business Management 1 *BCTAL X2562A/B*
Students apply project management skills to improve work flow and minimize costs. Students will apply technical skills through word-processing, spreadsheet, database, and electronic presentation software. 2 semesters (3 credits).
Grade 11-12

Business Management & Administration

Practicum Business Management 2 *BCTAL X2563A/B*
Students implement personal and interpersonal skills to strengthen individual performance in the workplace and post secondary education. Students will apply complex technical skills through word-processing and spreadsheet, and developing electronic presentations using multimedia software. 2 semesters (3 credits).
Grade 12

Business Law *BCTAL X2110A/B*
Students analyze the evolution and development of laws that govern business in our society. Students apply technical skills to address business applications of contemporary legal issues and analyze the social responsibility of business and industry. 1 semesters (1 credit).
Grade 11-12

Business English *BCTAL X2120A/B*
Students enhance reading, writing, computing, communications, and reasoning skills and apply them to the business environment. Plan, draft, and complete written compositions on a regular basis and edit their papers for clarity, engaging language, and the correct use of conventions and mechanics of written English. (*May substitute for English 4 on all endorsements except Multidisciplinary.*) 2 semesters (1 credit).
Grade 12

Global Business/Virtual Business *BCTAL X21300/X21400*
Students analyze global trade theories, international monetary systems involving foreign currency and exchange rates, trade policies, politics, and cultural differences in a global setting. Students also learn the legal and ethical business practices relating to global business and will have the opportunity to explore international career planning. Students will start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business. 2 semesters (1/2 credit) each class.
Grades 10-12

Business Information Management 1 *X2530A/B*
Students implement personal and interpersonal skills to strengthen individual performance in the workplace for successful transition to the workforce and postsecondary education. Students will develop technical skills through word-processing, spreadsheet, database, and electronic presentation software. 2 semesters (1 credit).
Grade 9-12

Business Information Management 2 *X2540A/B*
Students design solutions to mathematical business problems using technology to address business applications of emerging technologies. Student will learn to minimize project errors, and manage a project team. 2 semesters (1 credit).
Grade 10-12

FINANCE



All courses are not available every semester. Each campus offers courses based on student interest.

Note: The Advanced Technical Credit (ATC) Program can help students earn college credit, taught by a teacher who has had special training.

Principles of Business, Marketing, & Finance X2470A/B

Students are introduced to knowledge and skills of economics and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. 2 semesters (1 credit).

Grade 9-10

Accounting 1 X2060A/B

Students investigate how accounting is impacted by industry, economic, financial, technological, international, social, legal, and ethical factors. Students formulate and interpret financial information for use in management decision making. Prerequisite: TSI compliant in mathematics. 1 semester (1 credit).

Grade 10-12

Accounting 2 X2061A/B

(Mathematics credit)

Students use accounting tools, strategies and systems in real-world situations to maintain, monitor, control and plan the use of financial resources. Students communicate how accounting procedures affect financial statements and implement the information in assigned projects. 1 semester (1 credit).

Grade 11-12

Statistics and Business Decision Making BCTAL X2050A/B

This course is an introduction to statistics and the application to business decision making. Students will use statistics to make business decisions. Prerequisite: Algebra II. 1 semester (1 credit).

Grade 11-12

Accounting 1 DUAL CREDIT TCC 2301 BCTAL X20620 BLK

This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. Generally Accepted Accounting Principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS). 3 semester college hours Prerequisite: MATH 1324. 1 semester (1 credit)

Grade 11-12

Accounting 2 DUAL CREDIT

(Mathematics credit)

TCC 2302 BCTAL X20710 BLK

This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation. 3 semester college hours Prerequisite: ACCT 2301. 1 semester (1 credit)

Grade 11-12

Financial Mathematics X2051A/B

(Mathematics credit)

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Prerequisite: Algebra 1.

2 semesters (1 credit).

Grade 10-12

MARKETING



Principles of Business, Marketing, & Finance X2470A/B

Students are introduced to knowledge and skills of economics and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

2 semesters (1 credit).

Grade 9-10

Advertising X24200

Students will discover the goals and objectives or various types of advertising and promotion; identify and analyze advertisements and promotional campaigns; select media and develop advertisements, measure the effectiveness of that media and determine the costs involved; and learn the promotional mix as well as the importance of public relations.

1 semester (1/2 credit)

Grade 9-12

Marketing Dynamics X2481A/B

Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. Students are required to work a minimum of 15 hours per week, with 10 of the hours worked Monday-Friday and the job must be in marketing, sales, or retail. Enrichment activities include special projects, guest speakers, and field trips. Students get paid for their job and receive classroom credit. 2 semesters (3 credits).

Grade 11-12

Practicum Marketing Dynamics**X2491A/B**

Students secure a job for the school year, which is evaluated by the classroom instructor and their work supervisor. Students are required to work a minimum of 15 hours per week, with 10 of the hours worked Monday-Friday and the job must be in marketing, sales, or retail. Enrichment activities include special projects, guest speakers, and field trips. Students get paid for their job and receive classroom credit. 2 semesters (3 credits).

Grade 12**Entrepreneurship****X2440A/B**

Focuses on the options for business ownership, steps for starting a business, sources of information and technical assistance, types of business plans, qualities, importance, and the advantages and disadvantages of owning one's own business. 2 semesters (1 credit).

Grade 11-12**Fashion Marketing****X09150**

Students in Fashion Marketing gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities. 1 semester (1/2 credit).

Grade 9-12**Sports and Entertainment Marketing****X24600**

This growing industry employs athletes, musicians, stage crews, advertising agents, promotion agents, event planners, and numerous other related professions. Course features guest speakers, design of logos for sports teams and entertainment groups (musicians, stars, athletes, etc.) and design of stadiums, organization of sports camps, and field trips to appropriate entertainment facilities. 1 semester (1/2 credit).

Grade 9-12**Social Media****X24710**

Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

1 semester (1/2 credit)

Grade 9-12**INFORMATION TECHNOLOGY****Principles of Information Technology****X09900**

Students develop knowledge of emerging technologies used in presentation management, spreadsheets and web design for information storage and exchange while increasing computer literacy. 1 semester (1 credit).

Grade 9-12**Digital Media****X2840A/B**

Students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students demonstrate appropriate use of digital photography equipment and techniques. 2 semesters (1 credit).

Grade 10-12**Web Technologies****X2590A/B**

Student evaluates and employs computer-based productivity tools to create and modify web and digital media designs. Student demonstrates knowledge of Internet programming strategies, standards and web administration to develop and maintain web applications. 2 semesters (1 credit).

Grade 10-12**Computer Programming****BCTAL X0750A/B**

Special emphasis is placed on programming concepts and languages, programming methodology, software design, and an awareness of programming applications for business. This course meets the technology applications course requirement on all high school graduation plans. 2 semesters (1 credit).

Grade 10-12**Computer Programming and Game Design****BCTAL X0760A/B**

Design and play computer games in class. Use C++ to design your games, then others will play the games. This course is an introduction to the theory and practice of video game design and programming. Students explore structured programming techniques and concepts, develop programs using code software applications, perform maintenance, and maintain the security of computerized systems. 2 semesters (2 credits).

Grade 10-12**Game Design 2/3****BCTAL X07700/X07800BLK**

Prerequisite: Computer Programming and Game Design. 2 semesters (2 credits).

Grade 11-12**Cisco Internetworking 1****BCTAL X2591A/B**

Students design, build and maintain small to medium sized networks. In a lab setting students utilize the building blocks of today's global information and design networks. Focus is on advanced routing and switching, network design and management. Completion of this program prepares students to take the Cisco Certified Networking Associate exam. 2 semesters (2 credit).

Grade 10-12**Cisco Internetworking 2****BCTAL X2592A/B**

Building on the Cisco Internetworking 1 course, students focus on topics like security, service provider operations, storage networking, wireless operations, and foundation operations and management. Completion of this program prepares students for further certification in the Cisco Systems. 2 semesters (2 credits).

Grade 10-12

 **Computer Maintenance** BCTAL X2811A/B

First-year instruction is designed to provide job-specific training for entry-level employment in the rapidly expanding computer maintenance field. Instruction includes electricity/electronic theory, computer systems, data-communications, digital electronics, installations, inspections, adjustments and repair and maintenance. 2 semesters (2 credits).

Grade 11-12


 **Computer Technician** BCTAL X2820A/B

Students gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. 2 semesters (2 credits).

Grade 12

PUBLIC SERVICES



AP	Advanced Placement
	Technology Credit
SOL	Speakers of Other Languages
*	Advanced Technical Credit Eligible

*Weighted GPA credit for students entering 9th grade in 2018-2019 and beyond. Project Lead the Way. (See page 23 for more information.)

EDUCATION AND TRAINING

All courses are not available every semester. Each campus offers courses based on student interest.

Principles of Education and Training X0440A/B

Are you interested in becoming a teacher or a trainer? In this class you will learn about the knowledge and skills required to be a successful teacher or trainer, an administrator (such as a principal or superintendent), or a support services professional (such as a librarian, counselor, or diagnostician). You will uncover knowledge about yourself as you develop a graduation plan and prepare a portfolio of your skills. 2 semesters (1 credit).

Grade 9-12

Human Growth and Development X0450A/B

Have you ever wondered what people who help others need to know? Teachers, psychologists, psychiatrists, doctors, nurses, and other medical professionals will find this course useful as it examines human development from birth through old age. Normal development milestones are a focus. This course covers material that is generally taught in a college introductory course in developmental psychology or human development. 2 semesters (1 credit).

Grade 10-12

Instructional Practices in Ed. and Training X0415A/B
(formerly known as Ready, Set, Teach 1)

First year of internship at elementary/middle schools.

This is the class you've heard about where students get an opportunity to work in elementary, middle or high school classrooms. Once you've learned some of the basics of teaching theory and practice, you will be paired with an exemplary experienced mentor teacher at a BISD campus. Students learn to plan and direct classroom activities, prepare instructional materials, and complete other responsibilities of teachers. 2 semesters (2 credits).

Grade 11-12

Practicum in Education and Training X0418A/B
(formerly known as Ready, Set, Teach 2)

If you couldn't get enough of your first year working with children, this may be the class for you. You will focus on additional teaching strategies, classroom management, and the learning environment. You will spend additional time in your field site classroom at one of BISD's elementary or middle school campuses. Additional opportunities for student leadership will be provided. **Prerequisite:** Instructional Practices in Education and Training. 2 semesters (2 credits).

Grade 12

Extended Practicum in Education and Training X0419A/B

This course is for students simultaneously enrolled in Practicum in Education and Training. Students must work an average of 15 or more hours per week in paid or unpaid real work experiences such as after-school extended care programs at BISD elementary schools, youth programs at local recreation centers, or after-school programs managed by private sector providers. **Prerequisite:** Instructional Practices in Education and Training. 2 semesters, 2 periods (3 credits).

Grade 12

HUMAN SERVICES

Principles of Human Services X0430A/B

Students investigate careers including counseling and mental health, early childhood development, family and community, and personal care services. Rewards, demands, and future trends in family and community services and analysis of societal functions across the lifespan are elements of the course. 2 semesters (1 credit).

Grade 9-10

Cosmetology I BCTAL X1370A/B

Provides classroom training to achieve the Texas Cosmetology License. Students will be able to work on outside clientele for hands-on training. Students will be expected to purchase their beginners training kit during the first week of school. Students will be required to have completed 500 clocked hours before advancing to Cosmetology II. 2 semesters (3 hours).

Grade 11

Human Services

Cosmetology 2

BCTAL X1380A/B

Upon completion of their Senior year and the required 1500 hours total, students will have received classroom training needed to prepare them for their Cosmetologist Exam from the Texas Department of Licensing and Regulations. Students will also be able to work on outside clientele for hands-on training. 2 semesters (3 hours).

Grade 12

Child Development

HHS/RHS/BHS X0421A/B

This course addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students will become equipped with child development knowledge that can be used to promote the well-being and healthy development of children and to investigate careers related to the care and education of children. 2 semesters. (1 credit).

Grade 10-12

Lifetime Nutrition and Wellness (Health Credit)

X03900

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality, human services, and health sciences. Laboratory experiences will focus on the integration of nutrition and wellness knowledge with basic food preparation and management skills. 1 semester (1/2 credit).

Grade 9-12

Interpersonal Skills

X04250

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. 1 semester (1/2 credit).

Grade 9-12

Dollars and Sense

X04350

This course focuses on consumer practices and responsibilities, the money management process, decision-making skills, the impact of technology on financial management, and preparation for human services careers. 1 semester (1/2 credit).

Grade 10-12

Counseling and Mental Health

X2400A/B

This course is an introduction to mental health services, careers, history, agencies and current issues, and the difference between functional and dysfunctional behaviors. Students develop an awareness of the factors that affect mental health by exploring traditional and emerging treatment modalities. 2 semesters (1 credit).

Grade 10-12

Parenting Education School Age Parents 1

X0400A/B

This course addresses the special needs and interests of male and female students who are parents or who are pregnant and will become parents in the near future. Special emphasis is placed on prenatal care and development, postnatal care, child development, infant care, and parenting skills. 2 semesters (1 credit).

Grade 9-12

Human Services/ Law, Public Safety, Corrections and Security

Parenting Education School Age Parents 2

X0410A/B

This course is a continuation of the Parenting Education School Age Parents I course, it addresses the special needs and interests of male and female students who are parents or who are pregnant and will become parents in the near future. Special emphasis is placed on prenatal care and development, postnatal care, child development, infant care, and parenting skills. 2 semesters (1 credit).

Grade 10-12

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY



Principles of Law, Public Safety Corrections and Security

X2520A/B

A study of nature of criminal law, its philosophical and historical development with major definitions and concepts. Instruction will include the classifications of crimes with the elements of crimes and penalties using Texas statutes as illustrations. 2 semesters (1 credit).

Grade 9-12

Court Systems and Practices

BCTAL X25100 BLK

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures and interrogation. (Recommended to pair with Law Enforcement I or Criminal Investigations or Forensic Science) 1 semester block (1 credit).

Grade 10-12

Criminal Investigation

BCTAL X02210 BLK

Criminal Investigations is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence. 1 semester- block class. Recommended prerequisite: Principles of Law, Public Safety, Corrections, and Security. (Recommended to pair with Court Systems & Practices or Law Enforcement I or Forensic Science) 1 semester block (1 credit).

Grades 10-12

Law Enforcement 1

BCTAL X02200 BLK

This course provides a basic understanding of investigative theory, collection and preservation of evidence, and sources of information. Methods of conducting interviews and interrogations will also be covered. Students will be provided opportunities to discover uses of forensic sciences and preparation for cases and trials. (Recommended to pair with Court Systems & Practices or Criminal Investigations or Forensic Science) 1 semester block (1 credit).

Grade 10-12

Law Enforcement 2**BCTAL X02300BLK**

This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony. 2 semesters (2 credits).

Grade 11-12**Practicum in 911 Emergency Telecommunications****BCTAL X0210A/B**

911 Emergency Telecommunications is a course in which students can earn a 911 Emergency Telecommunicator certificate and learn about the challenges that face 911 dispatchers. The course teaches students about emergency communication centers, emergency telecommunication technology, interpersonal communication, legal issues, and job stress factors. The program takes an integrated teacher approach that features comprehensive content, multimedia presentations, and hands-on training. The course covers the following topics: Roles and Responsibilities of the Emergency Telecommunicator, Emergency Telecommunication Technologies, Telecommunication Essentials, Interpersonal Communication, Caller Management, Police Call Classification, Medical Call Classification, Man-Made and Natural Catastrophic Events, Radio Broadcast Procedures, Legal Aspects of Public Safety Communication, Quality Improvement, Stress Management 2 semesters (2 credits).

Grade 12**Forensic Science** **BCTAL X0200A/B/X02050BLK**

Students learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures. Students collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. 2 semesters (1 credit).

Grade 12**Firefighter 1**

2 semesters (2 credit).

Grade 11**BCTAL X0240A/B****Firefighter 2**

2 semesters (3 credits).

Grade 12**X0250A/B**

The Birdville Independent School District has partnered with the NRH Fire Department and Tarrant County College to provide a firefighter and emergency medical technician program for students in the Birdville school district. This program prepares students for state certification exams and for a future career in emergency services. The classes are open for application to students from all BISD high schools. From all BISD high schools with courses starting at the beginning of the students' junior year and concluding at the completion of their senior year. Classes are conducted by TCC instructors who are trained and licensed firefighters at Birdville Center of Technology and Advanced Learning (BCTAL), and will be scheduled in a two-period block. Students will have the potential to earn 5 high school credits and have the potential to earn 24 college credit hours at TCC.

JUNIOR RESERVE OFFICERS' TRAINING CORPS

The JROTC program focuses on the development of better citizens by building skills in leadership, citizenship, life success, geography, and wellness in a structured interactive environment. Also, the program includes voluntary extra-curricular (non-credit) activities, such as the color guard, drill, physical fitness, and rifle teams, field trips and summer camp. Student participation in these activities requires approval by both the parent/guardian and the Senior Army Instructor. Each successfully completed semester of JROTC provides 1/2 credit of state elective credit.

ROTC 1**X3010A/B****Intro to Leadership and Citizenship Development**

This course familiarizes students' rights, responsibilities, privileges and freedoms that underlie good citizenship. These courses begin developing students' appreciation of teamwork through instruction in drill and ceremonies and the wearing of the JROTC uniform. Each semester (1/2 credit).

Grade 9-12**ROTC 2****X3020A/B****Leadership and Citizenship Development**

This course is designed to improve students' leadership ability and their communications, decision-making and goal setting skills through study and practical leadership experience as cadet non-commissioned officers. These courses provide introductory instruction in American military history with an emphasis on the origin and roles of the U.S. Army. Each semester (1/2 credit). **Prerequisites:** 1 yr of JROTC, Senior Army Instructor approval.

Grade 10-12**ROTC 3****X3030A/B****Applied Leadership Development**

This course is designed to further enhance students' leadership ability through study and practical experience as cadet commissioned officers. These courses provide practical experience in applying leadership assessment techniques, communications, service learning and problem solving and continue instruction in military history. Each semester (1/2 credit). **Prerequisites:** Successful completion of the first 2 years of the JROTC program and approval of the Senior Army Instructor.

Grade 11-12**ROTC 4****X3040A/B****Advanced Leadership Development**

This course provides students with advanced leadership and instructional experiences as they serve as senior cadet commanders and staff officers. These courses emphasize effective application of training management, planning management, communications skills, ethical reasoning, office administration and decision-making. Requires the students to develop the concept for, plan, resource, manage and lead the completion of a service learning (community service) project and to provide leadership for major competitions and other program activities. Each semester (1/2 credit). **Prerequisites:** Successful completion of the first 3 years of the JROTC program and the approval of the Senior Army Instructor.

Grade 12

HEALTH SCIENCE

**Principles of Health Science***(Health Credit)*

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, research and development systems of the health care industry. 2 semesters (1 credit).

Grade 9-11**X2645A/B****BCTAL X26451****Medical Terminology****X2390A/B****BCTAL X23901**

This course is designed as an introduction to the medical field. Students develop a working knowledge of the language of medicine. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care. 2 semesters (1 credit).

Grade 9-12**Medical Administrative Assistant/Health Informatics****BCTAL X26470**

Health Informatics is where you learn to acquire, store, retrieve and use healthcare information to foster better collaboration among a patient's various healthcare providers. Health informatics is an evolving specialization that links information technology, communications and healthcare to improve the quality and safety of patient care. You will prepare to earn a medical office certification through a national healthcare organization. 1 semester (1 credit).

Grade 12**Clinical Rotations 1***(Health Credit)*

This program includes development and application, in a classroom and clinical setting, relating to groups of health occupations. Students observe or train with professional health care personnel at health care facilities. This observation/training may include such fields as physical therapy, medical/surgical nursing, obstetrics, pediatrics, laboratory, radiology, surgery, and dental. 2 semesters (2 credits).

Grade 11-12**BCTAL X2651A/B****Clinical Rotations 2/Patient Technician Practicum****BCTAL X2652A/B**

The practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. 2 semesters (2 1/2 credits).

Grade 12**Electrocardiogram and Phlebotomy Technician Health Science Practicum****BCTAL X2680A/B**

You will learn the skills to gather heart rhythm information, monitor and assess patients through electrocardiogram procedures. These tests can be performed during physical exams, when cardiovascular problems are suspected, or in preparation for surgery. This class will also prepare you to become a Certified EKG Technician (CET), and you'll have the credentials nearly all healthcare employers require to perform the critical tasks of administering EKGs once you pass the national certification exam. You will also learn the skills necessary to draw blood from patients and blood donors, evaluate patients' ability to withstand procedures, explain blood-drawing procedure to patients and answer questions, perform basic point of care testing, such as blood glucose levels. You will be prepared to sit for the national Certified Phlebotomy Technician exam. Possibility of clinical observation opportunities. **Prerequisite:** Principles of Health Science, Medical Terminology, Medical Microbiology, Pathophysiology or Anatomy & Physiology at an 80% or higher pass rate. 2 semesters (2 credits).

Grade 12**Pharmacy Technician Practicum****BCTAL X2671A/B**

Designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. **Prerequisite:** Principles of Health Science, Medical Terminology, Medical Microbiology, Pathophysiology or Anatomy & Physiology at an 80% or higher pass rate. 2 semesters (2 credits).

Grade 11-12**Pharmacy Technical Clinical Practicum****BCTAL****X2670A/B**

This class is designed to give students practical application of previous science knowledge and math skills. First semester is hands on labs and text book learning to prepare students to take the National Certified Pharmacy Technician exam following graduation. Second semester is 3 days each week with in pharmacy training on all aspects of the job as Certified Pharmacy Technician. Students will be registered with the Texas State Board of Pharmacy as Pharmacy Technician Trainees. **Prerequisite:** Principles of Health Science, Medical Terminology, Medical Microbiology, Pathophysiology or Anatomy & Physiology at an 80% or higher pass rate. 2 semesters (3 credits)

Grade 12**Emergency Medical Technician (EMT) Practicum****BCTAL X2690A/B**

Designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will take certification exam in the Spring. **Prerequisite:** Principles of Health Science, Medical Terminology, Medical Microbiology, Pathophysiology or Anatomy & Physiology at an 80% or higher pass rate.

2 semesters (2 credits).

Grade 12

Anatomy and Physiology (Pre-AP) **BCTAL X0491A/B**
(Science Credit) *BHS, HHS, RHS X0490A/B*
 Students explore physiological systems and associated pathologies. At least 40% of instructional time involves lab investigations, using safe, environmentally appropriate, and ethical practices. Higher order thinking is stressed through assessment and synthesis of the anatomical knowledge combined with exposure to clinical analysis. 2 semesters (1 credit). **Prerequisite:** Biology. Grade 10-12

Medical Microbiology **BCTAL X27901 BLK**
(Science Credit)
 Students develop knowledge and skills related to disease prevention by learning the chain of infection, asepsis, and standard precautions. Pathogenic/nonpathogenic organisms identified in the understanding of specific disease, causative agents and treatment. 1 semester (1 credit). **Prerequisite:** Biology, Chemistry Grade 11-12

Pathophysiology **BCTAL X27903BLK**
(Science Credit)
 Students investigate disease processes and the effect of disease on human systems. Emphasis placed on prevention and treatment. Differentiate between normal/abnormal physiology. Each semester. **Prerequisite:** Biology and Chemistry or Biology with concurrent Chemistry. 2 semesters (1 credit). Grade 11-12

Sports Medicine 1 **X2672A/B**
(Health Credit) Principles of Health Science
 Explores student interest in medical professions and sports related fields of study, with exposure to anatomy/physiology, psychology of sport and injury, injury recognition and evaluation, injury prevention, injury care, career opportunities, professional liability and responsibilities, budget and facility design. 2 semesters (1 credit) Grade 9-12

Sports Medicine 2 **X2673A/B**
(Health Credit) Health Science
 Designed to provide an in-depth study and application of sports medicine, including but not limited to basic rehabilitative techniques, therapeutic modalities, wound care, taping and bandaging techniques, prevention, recognition, and care of musculo-skeletal injuries, injuries to the young athlete, drugs in sports, modern issues in sports medicine. Course will involve afters school work with athletes and teams. 2 semesters (1 credit) Grade 10-12

Sports Medicine 3 **X2674A/B**
Practicum in Health Science
 Provides advanced students the opportunity to apply knowledge and skills to athletic injury recognition, evaluation, management, treatment, and rehabilitation through research investigations and applications related to sports medicine. The students will research, investigate, prepare, and present article reviews, case studies, research projects, visual poster presentations, and multimedia presentations on instructor-approved topics; and will perform assigned duties of the athletic training room under the supervision of a licensed athletic trainer, including after school internship. 2 semesters (2 credits) Grade 11-12

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS




AP	<i>Advanced Placement</i>
	<i>Technology Credit</i>
SOL	<i>Speakers of Other Languages</i>
*	<i>Advanced Technical Credit Eligible</i>


**Honors GPA credit for students entering 9th grade in 2018-2019 and beyond. Project Lead the Way. (See page 23 for more information.)*

All courses are not available every semester. Each campus offers courses based on student interest.

Note: The Advanced Technical Credit (ATC) Program can help students earn college credit, taught by a teacher who has had special training.

Principles of Technology **BCTAL X0520A/B**
(Physics credit) **X05250 BLK**
 Students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices. 2 semesters (1 credit). Prerequisites: one credit of high school science and Algebra I
 1 semester (1 credit)
Grade 10-12

 ***Introduction to Engineering Design** **X0477A/B**
(PLTW)
 This is the foundation course in a series of Project Lead the Way (PLTW) pre-engineering courses designed to introduce the student to the field of engineering. Students will develop problem-solving skills, with emphasis placed upon developing and using 3-D models. The course will emphasize the design development process of a product and a model of the product is produced, analyzed, and evaluated using a Computer-Aided Design (CAD) System. Students have opportunity to earn industry certification using a CAD System. Design applications will be explored with discussion of possible career opportunities. Students who pass the PLTW college-credit exam, given at the end of the course, can receive college credit at PLTW-affiliated universities. 2 semesters (1 credit). Grade 9-12

 ***Civil Engineering & Architecture** **X0480A/B**
(PLTW)
 Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures.

In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects. (1 credit)
Grade 10-12

Engineering Mathematics HHS X0470A/B
(Math Credit) BCTALX0471A/B

Students solve and model robotic design problems using mathematical methods to represent and analyze problems including spatial applications, manufacturing processes, materials engineering, and pneumatics with computer programming. 2 semesters (1 credit).

Grade 11-12

***Engineering Science** BCTAL X0478A/B
(PLTW) (Science Credit)

This is the second foundation PLTW course and is designed to help students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. Students who pass the PLTW college-credit exam, given at the end of the course, can receive college credit at PLTW-affiliated universities. 2 semesters (1 credit).

Grade 10-12

***Digital Electronics** BCTAL X0479A/B
(PLTW) (Mathematics Credit)

The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will analyze, design, and build digital electronic circuits. While implementing these designs, students will continually hone their professional skills, creative abilities, and understanding of the circuit design process. Digital Electronics (DE) is a high school level course that is appropriate for 10th or 11th grade students interested in exploring electronics. Other than their concurrent enrollment in college preparatory mathematics and science courses, this course assumes no previous knowledge.. 2 semesters (1 credit). **Prerequisites:** Algebra I and Geometry.

Grade 10-12

Drone Aerospace Systems (PLTW Semester 2) X0468A/B
(Technology credit)

Drone Aerospace Systems applies principles of aeronautics, flight, and engineering to Unmanned Aerospace Systems (drones). Students will design, build and test airfoils, rocket engines, gliders, and drones, all while working towards earning their FAA commercial drone pilot license. 2 semesters (2 credits).

Robotics and Automation 1 BCTAL X0474A/B

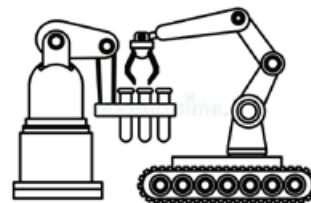
Working in a project-based environment, students will design, build, and program their robotic solutions to real-world problems. Students use 3D modeling software (CAD) to create, then 3D print custom parts to incorporate into their solutions. Exploring how robotics is used in manufacturing, introduces students to current automated fabrication and assembly systems.

Grade 9-12

Robotics and Automation 2 BCTAL X0475A/B
(Mathematics Credit)

Students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. 2 semesters (1 credits).

Grade 10-12



Engineering Design and Development X04787 BLK
(PLTW) BCTAL

Students identify a real-world challenge and then research, design, and test a solution, ultimately presenting their unique solutions to a panel of engineers. Capstone PLTW Course. Prerequisite: Digital Electronics or Aerospace Engineering. 1 semester (1 credit).

Grades 11-12

Rocket Engineering 1 BCTAL X0462A/B
(Science Credit) Scientific, Research and Design

If you are interested in Aeroscience and rockets, this is the class for you. During the first semester, you will build three small rockets while learning about rocket flight. During the second semester, you will work in a team to build and launch (with NASA's help) a rocket to take a one pound payload to a height of one mile. This course counts as a science credit. 2 semesters (2 credits).

Grade 10-12

Rocket Engineering 2 BCTAL X0464A/B
(Science Credit) Engineering Design and Problem Solving

If you enjoyed Rocket Engineering 1 and building a rocket that reached a maximum height of one mile, you will love this class. You will be part of a team that builds a transonic rocket that breaks the speed of sound and stays under 12,500 feet. **Prerequisite:** Rocket Engineering 1. 2 semesters (2 credits).

Grade 11-12

COMPUTER SCIENCE

🔑 AP Computer Science Principles

(Technology credit)

X0015A/B

Using Python as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creative collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with introduction to Computer Science. CSE helps students develop program expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. Upon successful completion of this course, students receive a computer science credit OR a Languages Other than English Credit. 2 semesters (1 credit, 1 computer science OR 1 LOTE credit)

Grade 9-12

🔑 AP Computer Science A

(Mathematics credit)

X0030A/B

(LOTE credit)

X0031A/B

An introductory course in computer science studying the Java programming language, and is built around the development of computer programs or parts of programs that correctly solve a given problem. Includes development and analysis of algorithms, development and use of fundamental data structures, and study of standard algorithms. Extra time is required on the part of the AP students for class preparation, outside reading, sophisticated writing assignments and completion of projects or labs with complex problem solving. Students will take the AP exam for this course. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses and will reflect the level of rigor and challenge that such a course would provide. Upon successful completion of this course, students receive an advanced mathematics credit as well as a Language Other than English Credit. 2 semesters (1 advanced mathematics credit, 1 LOTE credit).

Grades 9-12



PHYSICAL EDUCATION

All BISD students are required to complete **1 credit** of PE or qualified substitute. Students may complete up to 4 credits of athletics or physical education towards requirements for graduation. The district will award state graduation credit for physical education for the following: Each semester of JROTC and UIL competition sports; the fall semester of marching band; private or commercially-sponsored physical activity; programs conducted off campus if they are Olympic-type activities. To be eligible for receiving physical education credit, the program shall involve a minimum of 15 documented hours per week of intense training that includes a minimum of five documented hours per week of student participation in physical activities. Activities may include ice skating, gymnastics, ballet, fencing, equestrian sports and swimming. A student should seek advice from his/her individual counselor and approval from BISD Athletics Office.

PE Equivalent Athletics 1

S7010A/B

PE Equivalent Athletics 2

S7020A/B

PE Equivalent Athletics 3

S7030A/B

PE Equivalent Athletics 4

S7040A/B

Athletic Trainer

S7060A/B

Physical Education 1

S7110A/B

This course is a study of physical fitness to help improve and maintain physical fitness levels and a program will be designed to meet individual needs and interests. 2 semesters (1 credit).
Grade 9-12

Physical Education 2

S7120A/B

Physical Education 3

S7130A/B

Physical Education 4

S7140A/B

Partner Physical Education

S7051A/B

Partner PE is a success oriented physical education program featuring supervised peer tutors and individualized learning and instruction. Physical Education credit for students with disabilities and the peer partner. (1/2 credit / 1 credit)
Grade 9-12

NOTE: Band and Drill Team do receive PE credit in the fall and fine arts credit in the spring. A student must have these courses for two fall terms to meet their PE credit.

UIL: The Texas Administrative Code does not prohibit a student from enrolling in any number of state approved courses. However, UIL rules specifically prohibit students from being enrolled in more than one physical education and/or athletic class; Exception (with school approval): PE Substitute: JROTC, Cheerleading, Drill Team, Marching Band. As such there is nothing in the statute that would prohibit a student from enrolling in more than one physical education class in the same school day; however, a school would be in violation of the UIL Constitution and Contest Rules and subject to the range of penalties should it occur.

HEALTH EDUCATION

Health 1 S60000

This course, a study of the physical, mental and emotional functions of the body, emphasizes teenage decisions concerning the use of tobacco, alcohol, and drugs. It also includes units on fitness, safety, nutrition, sex education and first aid. 1 semester (1/2 credit).
Grade 9-12

*Principles of Health Science

BCTAL X26451
HS X2645 A/B
X2646A/B BLK

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, biotechnology research and development systems of the health care industry. 2 semesters (1 credit).

Grade 9-11

*Lifetime Nutrition and Wellness X03900

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality, human services, and health sciences. Laboratory experiences will focus on the integration of nutrition and wellness knowledge with basic food preparation and management skills. 1 semester (1/2 credit).

Grade 10-12

*Clinical Rotations 1 *BCTAL X2651A/B*

This program includes development and application, in a classroom and clinical setting, relating to groups of health occupations. Students observe or train with professional health care personnel at health care facilities. This observation/training may include such fields as physical therapy, medical/surgical nursing, obstetrics, pediatrics, laboratory, radiology, surgery, and dental. 2 semesters (2 credits).

Grade 11-12

Sports Medicine 1 X2672A/B

Principles of Health Science

Explores student interest in medical professions and sports related fields of study, with exposure to anatomy/physiology, psychology of sport and injury, injury recognition and evaluation, injury prevention, injury care, career opportunities, professional liability and responsibilities, budget and facility design. 2 semesters (1 credit)

Grade 9-12

Sports Medicine 2 X2673A/B

Health Science

Designed to provide an in-depth study and application of sports medicine, including but not limited to basic rehabilitative techniques, therapeutic modalities, wound care, taping and bandaging techniques, prevention, recognition, and care of musculoskeletal injuries, injuries to the young athlete, drugs in sports, modern issues in sports medicine. Course will involve afters school work with athletes and teams. 2 semesters (1 credit)

Grade 10-12



ACTIVITY ELECTIVES

AP Capstone Seminar S5015A/B

AP Capstone Research S5016A/B

Peer Assistance and Leadership X4141A/B/
X4141A/B

(PAL) 1/2

PAL courses serve as a peer-mentoring program in which students are trained as peer facilitators on their campus and at feeder campuses. The courses provide field experience for students who are potentially interested in careers in education and related helping professions. Positive peer influence will be utilized as a central strategy for addressing such issues as at-risk youth, dropout prevention, substance abuse prevention, teen pregnancy, suicide, absenteeism, low achievement, behavior problems, students with special needs and other areas of concern. Each semester (1/2 credit). **Prerequisite:** Application, Interview and Approval process.

Grade 11-12

Student Council Leadership X4051A/B

This class provides an opportunity for those students who have been elected by their classmates to meet during the day to organize extracurricular activities under the guidance of a faculty sponsor. Each semester (1/2 credit). **Prerequisite:** Election.

Grade 11-12

LOCAL CREDIT ELECTIVES

Student Assistant **X4060A/B**

Students are responsible to the teachers assigned and must report one hour each day. Students perform primarily clerical duties to expedite documentation for the classroom, library, and offices. Students serving as assistants learn skills in office management, production office work, and personnel management. This course is offered as a pass/fail course and will not count toward GPA. Each semester (1/2 credit).

Grade 10-12

Test Prep **X92500**

Provides students a course of study designed to increase performance on the PSAT, SAT, and ACT college entrance exams. Instruction will focus on a strategies-based approach to the tests with content from English and Math. Students will understand the assessment format of each exam. Students will build familiarity with the assessments through practice tests and will work toward achieving performance goals. This course is offered as a pass/fail course and will not count toward GPA. Each semester (1/2 credit).

Grade 10-11

Teen Leadership **S04000**

Teen Leadership is an immersive, participatory experience that builds personal responsibility and leadership skills through role plays, group activities, speeches, and projects. The course follows an illustrated (consumable) Student Manual and comprehensive Course Leader's Guide that includes digital and hard-copy activities, handouts, and detailed daily lessons. The Teen Leadership course develops critical, life-changing skills for high school students including taking personal responsibility, expressing themselves well, and making good decisions when problems arise. 1 semester (1/2 credit).



Haltom City First Responders pep rally at Haltom High School. Culinary students presented the First Responders with flags that were flown over the U.S. Capitol.

SPECIAL EDUCATION

Courses offered through the Special Education Department are only available to students who have been placed by an official ARD Committee.

ENGLISH / LANGUAGE ARTS

English Language Arts English 1 Special Education <u>Grade 9</u>	S1036A/B 1 credit
Basic English 1 Special Education <u>Grade 9-10</u>	S1037A/B 1 credit
Functional English 1 Special Education <u>Grade 9-10</u>	S1038A/B 1 credit
English 2 Special Education <u>Grade 10-11</u>	S1066A/B 1 credit
Basic English 2 Special Education <u>Grade 10-11</u>	S1067A/B 1 credit
Functional English 2 Special Education <u>Grade 10-11</u>	S1068A/B 1 credit
English 3 Special Education <u>Grade 11-12</u>	S1096A/B 1 credit
Basic English 3 Special Education <u>Grade 11-12</u>	S1097A/B 1 credit
Functional English 3 Special Education <u>Grade 11-12</u>	S1098A/B 1 credit
English 4 Special Education <u>Grade 12</u>	S1126A/B 1 credit
Basic English 4 Special Education <u>Grade 12</u>	S1127A/B 1 credit
Functional English 4 Special Education <u>Grade 12</u>	S1128A/B 1 credit
Life Communications Special Education <u>Grade 12</u>	S17704 1 credit
Life Communications Special Education <u>Grade 12</u>	S17705 1 credit
Reading 1 Special Education <u>Grade 9-12</u>	S14604 1 credit
Basic Reading 1 Special Education <u>Grade 9-12</u>	S1717A/B 1 credit
Basic Reading 2 Special Education <u>Grade 9-12</u>	S1727A/B 1 credit
Basic Reading 3 Special Education <u>Grade 9-12</u>	S1737A/B 1 credit

Functional Reading 1 SE <u>Grade 9-12</u>	S1718A/B 1 credit
Functional Reading 2 SE <u>Grade 9-12</u>	S1728A/B 1 credit
Functional Reading 3 SE <u>Grade 9-12</u>	S1738A/B 1 credit

MATHEMATICS

Basic Algebra 1 Special Education <u>Grade 9-10</u>	S2087A/B 1 credit
Functional Algebra 1 Special Education <u>Grade 9-10</u>	S2088A/B 1 credit
Geometry Special Education <u>Grade 10-12</u>	S2116A/B 1 credit
Basic Geometry Special Education <u>Grade 10-12</u>	S2117A/B 1 credit
Functional Geometry Special Education <u>Grade 10-12</u>	S2118A/B 1 credit
Algebra 2 Special Education <u>Grade 10-12</u>	S2086A/B 1 credit
Basic Algebra 2 Special Education <u>Grade 10-12</u>	S2087A/B 1 credit
Functional Algebra 2 Special Education <u>Grade 10-12</u>	S2088A/B 1 credit
Math Models Special Education <u>Grade 11-12</u>	S2470A/B 1 credit
Basis Math Models Special Education <u>Grade 11-12</u>	S2517A/B 1 credit
Functional Math Models Special Education <u>Grade 11-12</u>	S2518A/B 1 credit
Practical Math Special Education <u>Grade 12</u>	S25504 1 credit
Practical Math Special Education <u>Grade 12</u>	S25505 1 credit

SCIENCE

Basic Integrated Physics & Chemistry Special Education <u>Grade 9-10</u>	1 credit	S3367A/B
Functional Integrated Physics & Chemistry Special Education <u>Grade 9-10</u>	1 credit	S3028A/B
Basic Biology Special Education <u>Grade 10-11</u>		S3027A/B 1 credit
Functional Biology Special Education <u>Grade 10-11</u>		S3368A/B 1 credit
Basic Chemistry Special Education <u>Grade 11-12</u>		S3077A/B 1 credit
Functional Chemistry Special Education <u>Grade 11-12</u>		S3078A/B 1 credit
Basic Anatomy & Physiology Special Ed. <u>Grade 12</u>		S3424A/B 1 credit
Basic Environmental Systems <u>Grade 12</u>		S3377A/B 1 credit
Functional Environmental Systems <u>Grade 12</u>		S3378A/B 1 credit

SOCIAL STUDIES

World Geography Studies Special Education <u>Grade 9-10</u>		S40100 1 credit
Basic World Geography Studies Special Ed. <u>Grade 9-10</u>		S4007A/B 1 credit
Functional World Geography Studies Special Ed. <u>Grade 9-10</u>		S4008A/B 1 credit
World History Special Education <u>Grade 10-11</u>		S41000 1 credit
Basic World History Special Education <u>Grade 10-11</u>		S4097A/B 1 credit
Functional World History Special Education <u>Grade 10-11</u>		S4098A/B 1 credit
United States History Special Education <u>Grade 11-12</u>		S40500 1 credit
Basic United States History Special Ed. <u>Grade 11-12</u>		S43010 1 credit

Special Education

Special Education

Functional United States History Special Ed. <u>Grade 11-12</u>	S4048A/B 1 credit
Government Special Education <u>Grade 12</u>	S40300 1/2 credit
Basic Government Special Education <u>Grade 12</u>	S40270 1/2 credit
Functional Government Special Education <u>Grade 12</u>	S40280 1/2 credit
Economics Special Ed. <u>Grade 12</u>	S50100 1/2 credit
Basic Economics Special Education <u>Grade 12</u>	S50070 1/2 credit
Functional Economics Special Ed. <u>Grade 12</u>	S50080 1/2 credit
Practical Citizenship Special Education <u>Grade 12</u>	S43104 1 credit
Practical Citizenship Special Education <u>Grade 12</u>	S43105 1 credit

PHYSICAL EDUCATION

Physical Education <u>Grade 9-12</u>	S74001 1 credit
Basic Health Special Ed. <u>Grade 9-12</u>	S60700 1/2 credit
Functional Health Special Ed. <u>Grade 9-12</u>	S60800 1/2 credit
Adaptive PE Special Ed. <u>Grade 9-12</u>	S7000A/B 1 credit
Partner Physical Education <u>Grades 9-12</u>	X3171A/B

TECHNOLOGY

Basic Technology Special Education <u>Grade 9-12</u>	X31300 1 credit
Functional Technology Special Education <u>Grade 9-12</u>	X31400 1 credit

CAREER EDUCATION

Functional Occupational Investigation I Special Ed <u>Grade 11-12</u>	1 credit	X15200
Functional Communications Vocational Investigation <u>Grade 11-12</u>	1 credit	X15400
VAC – Co-Op I Special Education <u>Grade 11-12</u>		X14200 1 credit
Job Skills PAES <u>Grade 9-12</u>		X15506 1/2 - 1 credit

ELECTIVES

Social Skills Special Education <u>Grade 9-12</u>		X3110A/B 1/2 - 1 credit
Art Special Education <u>Grade 9-12</u>		S9008A/B 1 credit

Other courses may be designated as Special Education through an ARD Committee decision.

SPEECH

Basic Speech Communications Special Ed. <u>Grade 9-12</u>		S18670 1/2 credit
Functional Speech Communications Special Ed. <u>Grade 9-12</u>		S18680 1/2 credit

Community Based Instruction **X3169A/B**

This course is designed to meet the Transition IEP goal in the area of Community Experiences. It is taught in a community setting and will support students' progress toward their individualized post-secondary goals as identified by the IEP and transition plan. (1 credit)
Grade 12+ POST

Community Based Vocational Instruction **X3167A/B**

This course is designed to meet the Transition IEP goal in the area of Employment. It is taught in a community setting and will support students' progress toward their individualized post-secondary goals as identified by the IEP and transition plan. (1 credit)
Grade 12+ POST

Workplace Introduction X3168A/B

This course prepares students to enter the workforce by facilitating progress in the IEP in the areas of communication, problem-solving, and interpersonal skills. Students will learn and practice job searching techniques, how to complete job applications based on the requirements of employers and role play job interviewing skills. Additionally, this course provides an opportunity for students to experience real-life work tasks in the community and/or in the classroom. Supervised job-shadowing develops work-related ethics, social skills, and specific job skills as identified by the IEP. (1/2 credit / 1 credit)

Grade 12+ POST

Community Living X3160A/B

This course provides individualized instruction for acquiring knowledge and skills about local government and community as well as citizenship responsibilities such as obeying laws, voting, and recycling. Instruction will focus on social expectations in community settings that will facilitate progress in the IEP.

12+

Home Living X3166A/B

This course provides individualized instruction for acquiring skills in and maintaining a residence including: managing personal living space, grocery shopping, budgeting, paying bills, and time management (developing hobbies and leisure activities). Instruction will focus on independent living skills that will facilitate progress in the IEP. This class can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services. (1/2 credit / 1 credit)

Grade 12+ ACCESS / POST

Community Based Exploration and Training 1 X3170A/B

This double blocked course is based in the community and provides individualized instruction and support to facilitate the maintenance and generalization of acquired vocational skills identified in the IEP. Students will explore, sample and train in various occupational settings with a job coach. Workplace Practicum III can be repeated until a student meets graduation requirements or exceeds age eligibility for special Education services.

Grade 10-12+ OMEGA ACCESS 12+ POST

Community Based Exploration and Training 2

This double blocked course is based in the community and provides individualized instruction and support to facilitate the maintenance and generalization of acquired vocational skills identified in the IEP. Students will explore, sample and train in various occupational settings with a job coach. Workplace Practicum III can be repeated until a student meets graduation requirements or exceeds age eligibility for special Education services.

Grade 10-12+ OMEGA ACCESS 12+ POST

School to Work Prep X3164A/B

This course provides classroom based individualized instruction as identified in the IEP in vocational skills including introduction to various occupations, specific tasks required for those occupations, and assessment of vocational aptitude and interests. School to Work Prep can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services. (1/2 credit / 1 credit).

Grade 9-12+

Activities for Daily Living I-II X3162A/B

This course provides individualized instruction for acquiring skills for daily living including: nutrition, food preparation, safety and emergency procedures, and personal health issues (hygiene, grooming, dressing, and communicating with healthcare professionals). Instruction will focus on independent living skills that facilitate progress in the IEP. ADL II can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services. (1/2 credit / 1 credit)

Grade 9-12+ OMEGA ACCESS 12+ POST

Neighborhood Experiences X3161A/B

This course provides individualized instruction as identified in the IEP in mobility within the neighborhood community via written instructions and maps. Use of neighborhood resources such as the post office, bank, library, recycling plant, and local stores will also be explored. Neighborhood Experiences can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services. (1/2 credit / 1 credit)

Grade 9-12+ OMEGA ACCESS 12+ POST

School to Work Training X3165A/B

This course provides classroom based individualized instruction as identified in the IEP in vocational skills including introduction to various occupations, specific tasks required for those occupations, and assessment of vocational aptitude and interests. School to Work Prep can be repeated until student meets graduation requirements or exceeds age eligibility for special education services. (1 credit) (*This course could be in place of or in addition to Function Occupational Investigation*

OMEGA/ACCESS.)

Grade 9-12+

Navigating Life with Hearing Loss X3172A/B

The purpose of this course is to provide the necessary information, resources, and opportunities that will empower students who are deaf or hard of hearing to effectively apply information and skills learned in educational, home, and community settings in order to facilitate achievement in secondary and post secondary environments. Areas to be addressed include audiology, hearing health, assistive technology, available support services and accommodations, communication, self-determination and advocacy, and deaf culture. 2 semesters (1 credit)

Grade 9-12

METHODS OF MARKING GRADES

CREDITS AND GRADE POINTS

Teachers report grades numerically in electronic grade books, on report cards and on the cumulative folders. Teachers evaluate student academic performance in grades 6-12. Upon early indication of a student's unsatisfactory performance, parents should be notified of the student's deficiency.

Report cards are issued to parents each six weeks. Semester grades are computed as follows:

Multiply each six week's grade by 2	Add the semester final	Divide by 7
Example: Math 89, 90, 87 x 2= 532	Semester final 90 + 532= 622	622/7= 89 semester grade

Students in grades 9-12 will receive credits and grade points by semester average. Each semester of satisfactorily completed work will count as a 1/2 unit, except in career and technology education work-based learning programs in which a greater credit is granted, and in extended Algebra I-IV (see course description for guidelines). These units are recorded on report cards, permanent record cards, and cumulative folders by semester. Each semester of work failed (below 70) in a required course must be repeated.

An adequate number of grades must be taken to evaluate the student fairly. A semester exam will be administered as part of each semester grade. Students may be eligible for semester examination exemptions as described in the student handbook. All high schools will administer a written semester examination in every course offered in the curriculum except as provided by the exemption policy.

A student's grade in academic areas will not be altered because of his or her behavior. Behavior will be marked under Citizenship on the grade report form. The following symbols will be used to reflect citizenship:

E = Excellent	S = Satisfactory	N = Needs Improvement	U = Unsatisfactory
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The secondary student's citizenship or conduct grade will be based on the following:

a. acceptance of responsibility	b. courtesy of speech and manners	c. dependability
d. respect for the rights of others	e. promptness	f. care of property
g. good use of time	h. following directions	i. observation of rules of behavior

GRADE AVERAGE AND RANK IN CLASS

Students will be officially ranked at the end of the 5th six-week period of the senior year. Semester grades for grade levels nine through twelve will be computed in determining class rank. Although students may earn high school credits in middle school, grades received in those courses will be included in averaging for ranking purposes. Courses receiving two or three credits per year will be included respectively in the semester average.

All students in grades nine through twelve will be included in computing the grade average and rank in class except for Foreign Exchange students. For students coming from within the United States, numerical grades will be recorded exactly as they appear on the transcript and alphabetical grades will be given the numerical equivalent according to the grade scale of the sending school. If no grade scale is provided by the sending school, then the following conversion scale will be used:

A+	98	B+	88	C+	78	D+	68	F	50
A	95	B	85	C	75	D	65		
A-	92	B-	82	C-	72	D-	62		

*Conversion chart
for student transfer
alphabetical grades.*

Additionally, for students coming from state accredited schools within the United States, if a grade of 60- 69 is indicated as passing, credit will be given. If alphanumeric grade(s) that are presented can be verified by school officials, then BISD will accept the numeric grade.

Averaging Grades for Determining Rank in Class

For students in the graduating classes of 2019, 2020, 2021, and 2022, courses in all content areas shall be included in the averaging of grades for determination of honor graduate students, including valedictorian and salutatorian, and rank in class. Weighted courses in all content areas shall be weighted according to set scales.

Beginning with the graduating class of 2023, only courses in the content areas of English Language Arts, Mathematics, Science, Social Studies, Economics, World Languages and all Advanced Placement (AP), Pre-AP, Honors, and Dual Credit course, regardless of the subject shall be included in the averaging of grades for determination of honor graduate students, including valedictorian and salutatorian, and rank in class. Weighted courses in all content areas shall be weighted according to set scales.

Weighted Courses

For determination of grade point average (GPA), rank in class and honor graduate status (including valedictorian and salutatorian), the semester grade for each course specified in the core curriculum areas will be multiplied by the following weighting standards:

Course Type	Multiplier
Advanced Placement Courses	1.15
Pre-AP Courses, Dual Credit Courses, and Honors	1.10
Advanced Courses (Precalculus, Academic Decathlon)	1.05
Regular	1.0

Weighted *grades* will not be shown on the academic achievement record (transcript) or report card; nor will they be used to establish eligibility in extra-curricular activities.

Grades Received Outside the Standard Method

For students entering grade nine in 2009-2010 and thereafter: grades earned in correspondence, virtual learning courses, on credit by examination for acceleration, credit by examination (with prior instruction) or alternative education instruction shall be included in the computation of grade average, class rank, and honor graduate status.

Highest Ranking Students

The following will be used to calculate the numerical grade average, rank in class, and determine the honor graduates:

- Semester weighted grades earned during the ninth, tenth, and eleventh grades; and high school courses taken at middle school
- The first semester weighted grades of the twelfth grade
- The average of the fourth and fifth six-weeks weighted grades of the twelfth grade.

The valedictorian and salutatorian will be named at the end of the fifth six weeks in the twelfth grade year. In the event of a tie, the Scholastic Aptitude Test (SAT) will be used to determine valedictorian and salutatorian. The student with the highest SAT score on a single administration of the test will be declared valedictorian; the student with the second highest score will be named salutatorian. If the SAT scores are tied, the students shall be declared co-valedictorians. SAT tests taken after January of the senior year shall not be used to break a tie. The American College Test (ACT) shall not be used to break a tie.

To be eligible for valedictorian or salutatorian, a student must have been enrolled in the same high school in the Birdville Independent School District for all of the last two years in high school as well as have completed the requirements of the State Board of Education. Highest honor graduates who do not meet the residency requirements will be unofficially ranked. An estimated rank in class will be provided upon request from a college or university.

Effective with the graduating class of 2015, the District shall recognize at the graduation ceremony, in addition to the valedictorian and the salutatorian, the next ten highest ranking students. To be eligible for such recognition, a student must have been continuously enrolled in the same high school in the District for the entire two school years immediately preceding graduation.

Calculation of Class Rank				
Includes the calculation of class rank semester grades earned in ALL high school credit courses taken at any grade level, unless stated in policy EID (Local). This includes online courses.				
Graduating Classes:	2019	2020	2021	2022
Includes the calculation of class rank semester grades earned in high school credit courses taken at any grade level: ELA, Mathematics, Science, Social Studies, Economics, Languages other than English, and any course designated at Advanced Placement, Pre-AP, honors, and dual credit, regardless of the subject. This includes online courses.				
Graduating Classes	2023 and all subsequent graduating classes.			

**Consistent
Application for
Graduation Class**

The District shall apply the same class rank calculation method and rules for local graduation honors for all students in a graduating class, regardless of the school year in which a student first earned high school credit.

Calculation

Graduating Classes
of 2019, 2020
2021, and 2022

For students in the graduating classes of 2019, 2020, 2021, and 2022, the District shall include in the calculation of class rank semester grades earned in all high school credit courses taken at any grade level, unless otherwise stated in this policy.

Beginning with
the Graduating
Class of 2023

Beginning with the graduating class of 2023, the District shall include in the calculation of class rank only semester grades earned in high school credit courses taken at any grade level in the following subjects:

English language arts;

- Mathematics;
- Science;
- Social studies;
- Economics;
- Languages other than English; and
- Advanced Placement (AP), Pre-AP, honors, and dual credit courses, regardless of the subject.

Distance Learning
or Credit by
Examination

The calculation of class rank shall include grades in eligible subjects earned by distance learning or credit by examination.

Online Learning
Courses

For students in the graduating classes of 2019, 2020, 2021, and 2022, grades earned in online courses, regardless of the source that provided the courses, shall be included in the calculation of class rank.

Beginning with the class of 2023, the calculation of class rank shall only include grades earned in online courses in:

- English language arts;
- Mathematics;
- Science;
- Social studies;
- Economics;
- Languages other than English; and

ACADEMIC ACHIEVEMENT
CLASS RANKING

EIC
(LOCAL)

- AP, Pre-AP; honors, and dual credit courses, regardless of the subject.

Homebound A student placed in the homebound or a residential program for a maximum of one semester shall have that semester excluded from the calculation of class rank.

Career and Technical Education Courses Career and technical education (CTE) courses that receive 2 or 3 credits per year shall be included in the semester average two or three times, as appropriate.

Activity Courses For students in the graduating class of 2019, semester grades received in the third and fourth years of an approved activity course in athletics shall be included in the calculation of class rank.

Certain Elective Courses For students in the graduating classes of 2019, a qualifying student may audit elective courses. An elective course during the student's junior or senior year shall not be included in the calculation of class rank.

For students in the graduating classes of 2020, 2021, and 2022, an eligible elective course audited by a student shall not be included in the calculation of class rank. The course eligible for audit shall be identified in the course catalog or other appropriate District publications and shall consist of the second, third, and fourth year of the eligible listed elective courses.

Weighted Grade System

The District shall categorize and weight eligible courses as Advanced and Regular in accordance with provisions of this policy and as designated in the Educational Planning for Life Guide.

Advanced All AP, Pre-AP, precalculus, honors, and dual credit courses shall be categorized and weighted as Advanced courses.

Regular All other eligible courses shall be categorized and weighted as Regular courses.

Weighted Numerical Grade Average The District shall assign weights to semester grades and shall calculate a weighted numerical grade average in accordance with the following scale:

AP courses	Multiplied by 1.15
Pre-AP, dual credit and honors courses	Multiplied by 1.10
Precalculus	Multiplied by 1.05
Regular courses	Multiplied by 1.00

Transferred Grades For students transferring from within the United States, numerical grades shall be recorded exactly as they appear on the transcript,

ACADEMIC ACHIEVEMENT
CLASS RANKING

EIC
(LOCAL)

and letter grades shall be given the numerical equivalent according to the grade scale of the sending school. If no grade scale is provided by the sending school, then the following conversion scale shall be used:

A+	=	98	B+	=	88	C+	=	78	D+	=	68
A	=	95	B	=	85	C	=	75	D	=	65
A-	=	92	B-	=	82	C-	=	72	D-	=	62
									F	=	50

Additionally, for students transferring from state-accredited schools within the United States, if a grade of 60–69 is indicated as passing, credit shall be given.

Graduating Class
of 2021

Beginning with students in the graduating class of 2021, courses from unaccredited schools outside of the United States shall not be included in the calculation of class rank.

**Local Graduation
Honors**

For the purpose of determining honors to be conferred during graduation activities, the District shall calculate class rank at the end of the fifth six-week grading period of the senior year. The average of the fourth and fifth six-week grades shall be used as the semester grade for this purpose.

For the purpose of applications to institutions of higher education, the District shall also calculate class rank as required by state law. The District’s eligibility criteria for local graduation honors shall apply only for local recognitions and shall not restrict class rank for the purpose of automatic admission under state law. [See EIC(LEGAL)]

Academic Honors

The valedictorian and salutatorian shall be the eligible students with the highest and second-highest rank, respectively. To be eligible for these academic honors, a student must:

1. Have been enrolled in the same District high school as a full-time student by the first day of the second week of his or her junior year and must complete his or her fourth year at that District high school;
2. Be graduating after exactly eight semesters of enrollment in high school; and
3. Have completed the foundation program with the distinguished level of achievement.

Recognition as the valedictorian or salutatorian notwithstanding, in order to be eligible to give the valedictory or salutatory speech dur

ing the commencement ceremony, a student shall not have engaged in any serious misconduct violation of the Student Code of Conduct, including removal to a disciplinary alternative education program (DAEP), a three-day suspension, or expulsion during his or her last two semesters. [See FNA and the Student Code of Conduct.]

Top 12 Graduates

The District shall recognize at the graduation ceremony, in addition to the valedictorian and the salutatorian, the next ten highest-ranked students who:

1. Have been enrolled in the same District high school as full-time students by the first day of the second week of their junior year and must complete their fourth year at that District high school.
2. Are graduating after exactly eight semesters of enrollment in high school; and
3. Have completed the foundation program with the distinguished level of achievement.

Breaking Ties

In case of a tie in weighted numerical grade averages, the Scholastic Aptitude Test (SAT) shall be used to determine the valedictorian and the salutatorian. The student with the highest SAT score on a single administration of the test shall be declared the valedictorian; the student with the second-highest SAT score shall be named salutatorian. If the SAT scores are tied, the District shall recognize all students involved in the tie as sharing the honor and title.

SAT tests taken after January of the senior year shall not be used to break a tie. The American College Test (ACT) shall also not be used to break a tie.

Graduating Class
of 2021

Beginning with students in the graduating class of 2021, in case of a tie in weighted numerical grade averages among the top-ranking students, the weighted numerical grade average shall be computed to a sufficient number of decimal places until the tie is broken. If the tie is not broken after applying this method, the District shall recognize all students involved in the tie as co-valedictorians and no salutatorian shall be recognized.

EIC (LOCAL) Audit (GPA Exempt Information) for Graduating Class of 2020-2021

For the purposes of this regulation, an audited elective course is described as:

- A GPA exempt course which will not be used in the calculation of GPA and class rank.
- A course which will be designated on the transcript as a GPA exempt course.
- Students will receive a numerical grade all year on the report card and the grade earned will be used to determine eligibility for participation in all UIL or school-sponsored activities.
- A course which will be listed on a student's academic transcript with a credit awarded.

Audit eligibility:

- Students must have an overall 80% or better average in the prerequisite course for the elective courses for which they are seeking a waiver.
- Students must maintain an 80% or better average in the GPA exempt course to qualify and maintain GPA exempt eligibility.
- Students must obtain approval from their parents, teachers of the course, and the counselor.
- Students may take up to three (3) credits on a GPA exempt basis.

Enrollment in an audited courses:

- Complete the GPA Exempt application, which can be found online on the high school counseling website or in the counseling office.
- Have the application signed by the parent and teacher.
- Return the application to the counselor no later than the end of the third (3rd) week of each semester. At that time, if all criteria are met, it will be approved and a course change will be made to reflect enrollment in a GPA exempt course.
- Once the student makes the decision to take a course as GPA exempt, the decision is final and cannot be changed.
- Students enrolled in full-year courses do not need to reapply during the second semester.
- Students, including move-in students, who miss the deadline for application for the first semester, may apply for exemption for the second semester if they meet the criteria.

Courses approved to audit:

Students are encouraged to pursue their areas of special talents and interest to enrich their academic experience. Courses may be taken on a GPA exempt basis that have been approved by the district. The following courses have been identified as GPA-exempt eligible:

Accounting 2 (Not Dual Credit)	Computer Technician	PE 2-4
Advanced Animation	Construction Tech 2-4	Pharmacology Practicum
Advanced Audio Production 2	Cosmetology 2	Pharmacology Clinical Practicum
Advanced Floral Design	Culinary Arts 2	Practicum Audio Production 3
Advanced Graphic Design	Dance 2-4	Practicum Business Management 2
Advanced Interior Design	Drill Team 2-4	Practicum in Agriculture, Food, and Natural Resources (Vet Med 2)
Advanced Video Production 2	Electrocardiogram and Phlebotomy Technician Practicum	Practicum in Education and Training
Art 2-4 (On-level only)	Emergency Medical Technician Practicum	Practicum in Hospitality Services
ASL 3-4	Extended Practicum in Education and Training	Practicum of Marketing Dynamics 2
Athletics 2-4	Fashion Design 2	Practicum Video Production 3
Auto Tech 2-3	Firefighter 2	Robotics 2
AVID 2-4	Game Design 2-3	Rocket Engineering 2
Band 2-4	Instrumental Ensemble 2-4	ROTC 2-4
Business Information Management 2	Jazz Band 2-4	Sports Medicine 2-3
Cheerleading 2-4	Law Enforcement 2	Technical Theatre 2-4
Choir 2-4	Musical Theatre 2-4	Theatre Arts 2-4
CISCO Internetworking 2	Newspaper 2-3	Vocal Ensemble 2--4
Clinical Rotation 2	PALS 2	Yearbook 2-3
Colorguard 2-4		

LOOKING AHEAD

BY GRADE LEVEL

Guidance counselors in middle and high schools help students plan for their future. BISD students should plan their course schedules with the campus counselor to ensure classes that are best suited for their post high school plans. The following timeline will help students understand the steps to take before graduation.

THE NEXT FIVE YEARS

GRADE

8 MIDDLE SCHOOL

Using your College and Career course assessment test results, **decide** which career fields interest you. Find out from your counselor which classes best suits those interests.

Plan your high school program of studies with your school counselor. Take the most rigorous classes available to improve admission possibilities.

Create a Khan Academy account (khanacademy.org/sat) for the SAT suite of Assessments. Create a Big Future account (bigfuture.collegeboard.org) for grade level planning.

Talk to current high school students to find out what course work is expected in different classes at the high school level. Ask what unique opportunities have they experienced during class time or on class assignments.

Determine how the descriptions fit with your interests.

GRADE

9 FRESHMAN

Talk to adults to determine what they like/dislike about their jobs and what kind of education is needed.

Make sure that your program of studies includes at least two or three years of a **language** other than English.

Participate in a variety of **extracurricular** activities.

Check for PSAT/SAT and for ACT for **practice tests**. Create a Khan Academy account (khanacademy.org/sat) for the SAT suite of Assessments. Create an ACT Academy account for ACT (academy.act.org). Create a Big Future account

(bigfuture.collegeboard.org) for grade level planning.

Consider taking a PSAT/SAT **preparation course**.

Read books as a supplement to school assignments. SAT/ACT performance is higher for regular readers.

While taking required core curriculum courses, you will have the opportunity to find out about elective courses available in high school. As you take a few elective courses, you may discover an interest you never considered. Courses in this guide will help you determine your path and eliminate unnecessary detours.

GRADE

10 SOPHOMORE

August

Colleges are more impressed by respectable grades in **challenging courses** than by outstanding grades in easy ones.

At registration **check credits** to make sure you are on schedule for graduation requirements.

September

Register to take the PSAT.

Review for the PSAT. Practice online tests.

October

Take the PSAT. On the test form, check the box for college information.

December/January

Review your PSAT Score Report Plus. Use this information to focus your preparation for SAT.

GRADE

11 JUNIOR

August

Work to **earn good grades**

Check credits for graduation requirements

September

Register to take the PSAT

Start thinking about **what sort of college or technical school** you'd like to attend

Register for the ACT, SAT or ASVAB **prep class**

Review for the PSAT. Practice using online tests.

October/November

Contact the colleges that interest you for information and an application for admission. Ask about special admission requirements, financial aid and deadlines

Attend BISD College Night

December

Study college information

Collect info on scholarships and financial aid

Consult your counselor about Early Admission

January/February

Gather application packets for colleges, technical school or service academy

Check registration deadlines for the SAT, ACT, and Achievement Tests

March/April

Plan program of study for senior year with your counselor. Register for college entrance tests.

May/June

Take SAT or ACT, Achievement Test(s)

In August begin thinking about personal statements for college admission essays. Reflect on interesting experiences you have had.

GRADE

12 SENIOR

August

Work to **earn good grades**

Check credits for graduation requirements

September

Apply online for college or technical school

Consider financial needs for college

Apply for scholarships

Prepare a resume, **ask** for recommendations

October

Review each college's entrance requirements

Prepare admissions essay

Attend BISD College Night

December

Visit college campuses while classes are in session

Request and **send** transcripts as needed

Applications should be in by **January 1**

January/February

File your FAFSA (Federal aid) after January 1.

Estimate the required tax information. Keep a record.

Research for scholarships and loans

March/April

Look for acceptance notices & choose a college

Decline other colleges by May 1

Finalize plans for housing, aid and scholarships

May/June

Notify counselor of college choice/scholarship awards

Request final transcript to be sent to your college

Take any AP examinations previously decided

Follow up on each application and admission document to be sure your college of choice has received the items as requested.

COLLEGE AND UNIVERSITIES

SPECIAL COLLEGE ADMISSION PROGRAMS IN TEXAS

The state of Texas has programs to assist students in gaining admission to universities within Texas. Information about these programs and more can be obtained in the school counselor's office.

Required Admission of Top 10%

As a result of legislation enacted during a recent session of the Texas legislature, all Texas public colleges and universities are required to admit students if they meet all the criteria appearing in the list. Students should be aware that colleges and universities may also require an essay, letters of recommendation, admission and placement tests such as the SAT or ACT and an official high school transcript.

TOP 10%

Top 10% requirements for admission

have a grade point average that places them in the top ten percent of their high school graduating class

apply no later than two years after graduation from a Texas high school

submit a completed application before the expiration of any filing deadline established by the college

**The University of Texas has been granted a variance by the Texas Legislature and the percentage of automatic entrance based on class rank may change from year to year. Check with your guidance counselor for annual updates.*



TESTS FOR COLLEGE BOUND STUDENTS

PSAT/NMSQT (Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test

The PSAT /NMSQT, a short form of the Scholastic Aptitude Test (SAT), measures evidence-based reading and writing in four content areas and mathematics knowledge and skills, identified as most important for college and career readiness and success . Benefits of early participation are:

- allows students to compare academic abilities with college-bound students at their grade level
- familiarizes students with the SAT format
- shows the student areas of concentration for additional preparation before taking the SAT
- allows college-bound juniors to compete for National Merit Scholarships

The PSAT/NMSQT is offered only in October and should be taken by all juniors and sophomores. Freshman, especially those taking Pre-AP/AP courses, are encouraged to take the test for practice. Review the online student score report (OSR)to determine how you performed on each type of question.

Beyond NMSC ... Additional Scholarship Partners

If you opt in to Student Search Service and you qualify, you'll be invited to apply for scholarships fall of junior year.



The SAT Test is a curriculum and standards-based educational and career planning tool that assesses students' academic readiness for college. The SAT Test is the capstone of our College and Career Readiness System. The test uses the same score scale as PSAT 8/9, making the system an effective tool to monitor academic progress and student growth.

Check the catalogs or websites of colleges to learn what admission tests are required. Most colleges accept the scores of the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT). Application forms for the tests are available in the guidance offices of the senior high schools or online. School Codes are as follows: Richland High School # 442558, Haltom High School #442510 and Birdville High School #445137



FINANCIAL AID

There are generally four major types of financial aid available to students:

Scholarships	Grants	Loans	Work Study
awards based on merit (either academic or some area of talent)	awards based on financial need which do not need to be repaid	funds loaned through a bank, college or lending institution with interest rates	student jobs to earn money toward education, coor. through the college's financial aid office

The Financial Aid Information Page: <http://www.finaid.org>

National Association of Student Financial Aid Administrators, a resource for all types of financial aid.

Department of Education, Student Financial Assistance Information: <http://www.ed.gov/>

This homepage links to student financial aid grants, loans and information.

College Board Online: <http://www.collegeboard.com>

College Board's database on over 3,000 sources of scholarships, internships, contests and loans.

ACT: <http://www.act.org/path/parent/resource>

ACT provides numerous links for developing college and career planning and seeking financial aid.

Sallie Mae's Online Scholarship Service: <http://www.Salliemae.com>

Extensive planning/paying for college with Wired Scholar, an individualized planning folder.

The Coordinating Board of Higher Education for Texas: <http://www.thecb.state.tx.us>

This homepage provides links to an array of information on financial aid.

College for Texans: <http://www.collegefortexans.com>

Texas Higher Education Coordinating Board is available in English or Spanish.

TexasMentor: <http://www.texasmentor.org>

TexasMentor free service to help students and families plan for college, with special help for seeking financial aid.

Texas Tomorrow Fund: <http://www.texastomorrowfunds.org>

This website provides information about the two special college savings program approved by the Texas legislature: Texas Guaranteed Tuition Plan and Tomorrow's College Investment Plan.

Go Center: <http://www.careercruising.com>

This website provides access to applying for college, registration for SAT and/or ACT, and financial aid.

FREQUENTLY USED COLLEGE ADMISSION TERMS

Admission Testing: Tests used by colleges for admission purposes. Consult the individual college catalog to determine which test the college or university requires.

Award Letter: A letter from an institution's financial aid office, stating the kinds and amounts of financial aid you are eligible for.

College Application: Public colleges, universities and many private schools in Texas utilize a common application system. If not submitted electronically, applications should be typed or printed in dark ink, never completed in pencil. You should consult your guidance counselor for the procedure for mailing transcripts with your applications.

College Catalog: Describes the college's physical plant, campus, admission policies, costs, programs of studies and individual courses. Much information previously available only in college catalogs is now available on college web sites.

College Visitation: Most colleges and universities encourage applicants and their parents to visit the campus. These visitation days are often scheduled on a weekend or during breaks so that students will not have to miss school. Students desiring to visit a college or university should contact the office of admissions for details. Check with your high school attendance office for absence and/or semester test exemptions for college visits.

College Work-Study Program: This is a government-supported financial-aid program coordinated through financial-aid offices whereby an eligible student (based on need) may work part time while attending class at least half time, generally in college-related jobs.

Common Application for Freshman Admission to Texas Public Universities: All public universities in Texas now participate in a common application process, and you can obtain a bulletin containing information about the application process in your school's counseling office.

Cooperative Work-Study Education: This is a program in which the student alternates between full-time college study and full-time paid employment related to the area of study. Under this plan, the bachelor's degree often requires five years to complete.

Early Admission Decision: Formally accepting a college's invitation early in your senior year.

Expected Family Contribution: The Expected Family Contribution is the amount of money your family may reasonably be expected to contribute toward your education beyond high school. It is one of the terms used in the calculation to determine possible financial aid.

Federal & Direct Stafford Loans: Stafford Loans are the federal government's major type of loan. Many schools participate in the William D. Ford Direct Loan Programs (Direct Loans). If a college or university does not yet participate in Direct Loans, the funds for Stafford Loans come from a bank, credit union, or other lender that participates in the Federal Family Education Loan (FFEL) Program.

Financial Aid Office: Each institution of higher education has a staff to counsel you on financial aid to help determine your financial needs and eligibility for financial aid--and to develop a financial aid package for you.

Free Application for Federal Student Aid (FAFSA): The FAFSA is used to collect information about the student's total family income, assets and expenses and to assess the family's potential contribution toward college expenses. You can complete a FAFSA form and apply electronically from your home computer.

Grade Point Average (GPA): A student's GPA on the transcript is the average of all grades except grades from correspondence courses and credit by exam are calculated in the GPA.

Grant: Grants are gift awards made on the basis of financial need, which do not require repayment. Grants are available from the federal government, state agencies and educational institutions.

Guaranteed Student Loans (GSL): The Guaranteed Student Loan Program enables students to borrow from eligible lenders at a low interest rate to meet education expenses. The federal government will pay interest on the loan while the student is in school.

Housing Deposit: Housing deposits are paid to reserve a room in a college or university dormitory. This fee is usually paid after acceptance to a college or university. Deadlines for housing deposits are usually strict. Students should respond promptly to requests for housing deposits.

Open Door Admissions: An Open Door Admissions Policy means that the college or university does not have a specific entrance requirement other than graduation from high school or its equivalent.

Pell Grant: A Pell Grant is financial aid awarded by the federal government on the basis of need, designed to provide the basis of an aid package for post secondary education. The grant may be used toward tuition, room and board, books or other educational costs and requires no repayment.

Parent Loans (Plus): Federally-insured PLUS loans are available to parents through both the FFEL program and Direct Loans. Parents who do not have a bad credit history can borrow a PLUS Loan to pay the educational expenses of a child who is a dependent student enrolled at least half time in an eligible program at an eligible school.

Rank-in-Class: Students are officially ranked twice: (1) at the completion of eleventh grade and (2) at the end of the fifth six weeks of the twelfth grade based on their weighted average. Most colleges will require that you identify your rank in class. Students are ranked twice a year – end of the first and second semesters with exception of senior year when ranked after 5th week of 6 weeks as well.

Recommendations: Many colleges and universities require that students submit letters of recommendation with their application. These recommendations should include reference to the student's distinctive qualifications and academic ability. Students who request others to complete letters of recommendation for them should allow sufficient time (a minimum of two weeks) for the individuals to complete them. Otherwise, the counselor or teacher may not be able to complete the request.

Scholarships: These are gifts of financial assistance awarded on the basis of academic ability or talent in some area. Financial need is sometimes considered.

Transcript: A transcript is a copy of a student's high school record. This document usually includes a copy of standardized test scores. It must be mailed directly to the college admissions office from the high school. Students must make the request through the counseling office for a transcript to be mailed.

Transcript (Final): A final transcript is a copy of the student's record that includes the grades earned since the initial application and transcript were submitted. It also identifies the student as having graduated. The student must inform the guidance office where and if a final transcript is to be sent.

COLLEGE ADMISSIONS QUESTIONS AND ANSWERS

How difficult is it to be accepted into a college or university?

Graduates from high school can meet the admission requirements of a number of two-year colleges or four-year colleges and universities. Some of these institutions have open-door admission policies.

What questions should I ask about a school?

Does the school offer the courses and type of program I am interested in?

Do I meet the admission requirements?

Does the school offer a quality education at a reasonable cost?

Does the school have the environment and setting in which I am most comfortable?

When I am being considered for admission, does Admissions look only at my ACT or SAT scores?

In considering admission applications, most admission directors are interested in reviewing high school courses taken, level of course (*i.e.*, *standard, advanced, honors, or AP, dual credit*), grade point average (GPA), ACT or SAT scores and counselor or teacher recommendations.

What should I do if I need financial help in order to attend the college of my choice?

Contact the Director of Financial Aid at the institution of your choice. This person can tell you what scholarships and other forms of assistance are available. Consult your high school counselor, who has information on local, state and national financial aid programs.

What are these scholarship search services that contact me?

During the last several years many private scholarship services have emerged to provide lists of “sources” of financial assistance for which you may apply. Some of these services send students letters implying that the school or district recommends their services; however, you should be aware that neither Birdville ISD nor your campus endorses any private scholarship services. The scholarship search service from whom you receive a letter has instead obtained your name and address information as part of a public information request. Widespread availability of information about financial aid provided through your counseling office is obtainable from colleges in which you are interested, or available on the Internet. Thus, you should not need to pay anyone for gathering information about resources for financial aid or scholarships.

Is it appropriate to apply to more than one college?

If possible, you may want to apply to several colleges, including one or two that might be a “reach,” some that are probably very good fits for your academic record, and one “sure” admission. Although you apply to a school and are accepted, you are not obligated to attend that school.

Do all colleges require an application fee?

Most colleges require that a fee, usually between \$25.00 and \$50.00, accompany an application for admission. In cases of financial need, this application fee is sometimes waived. (See your counselor.)

Can all students qualify for admission to college immediately upon graduation?

Yes, many students can qualify for admission to college immediately upon graduation through the community college transfer program, which consists of attending a community college for freshman and sophomore years and then transferring to a state university for the junior and senior years.

If I have been accepted by a college or university by December of my senior year, can't I "ease up" during the last semester?

A study was completed by the U.S. Department of Education. The report from that study shows that serious consequences result from that practice. As a result of the "wasted" last semester or senior year, students develop habits that prove disastrous when they get to college. The report shows that one-third to one-half the students are not prepared for college work.

Will my ACT or SAT scores and report tell me which college will accept me?

Not necessarily--You will need to check the college catalogs and web sites because most colleges consider other factors before granting admission to a student.

What courses should I take before taking the SAT or ACT?

You should definitely take Algebra I, Geometry and Algebra II and on-grade level or above English (grammar and usage, composition and literature). In addition, science and social studies courses are important because most of the reading comprehension questions deal with these subject areas. You should note that research by both ACT and College Board in recent years shows that students who take Calculus score higher than any other students. Also, enrollment in Physics and Chemistry as well as multiple years of other spoken languages greatly increase your likelihood of achieving a high score.

When should I take the SAT or ACT?

You should take the SAT or ACT starting Spring of your junior year or the beginning of your senior year. It is recommended that testing be completed by December of the senior year.

What is the TSI assessment? When is it taken?

Texas Success Initiative (TSI) Assessment was enacted for all Texas public colleges and universities. Any new student who has not earned credit through college course work prior to 8/26/13 or met a state approved exemption is subject to the new TSI Assessment requirement. Previous TSI approved tests (Compass, Accuplacer, THEA, and Asset) are no longer accepted.

Exemptions

- Student is exempt on the basis of **SAT I** scores (less than 5 years old) with a minimum qualifying score of 1070 composite, with 500 Critical Reading and 500 Math.
- Student is exempt on the basis of the **ACT** (less than 5 years old) with a minimum qualifying score of 23 composite, with 19 English and 19 Math.
- Student is exempt on the basis of high school exit level **TAKS** (less than 5 years old) with a minimum qualifying score of 2200 Math and 2200 English Language Arts with Writing sub-score of 3.

What do I need to be eligible to participate in National Collegiate Athletic Association (NCAA) Division I athletics at college?

Proposition 48 requires that a freshman student entering a NCAA Division I institution must complete a core curriculum of at least fourteen academic courses and receive an established minimum combined score on the SAT evidenced-based reading and writing, and math sections or an established minimum sum of scores on the ACT in order to be eligible to participate in intercollegiate athletics during the first year of attendance. See the section below for more information.

Register at www.ncaaclearinghouse.net.

NOTES



BIRDVILLE INDEPENDENT SCHOOL DISTRICT