Breckenridge High School

2024-2025



Course Description Guide

Section 1: Academic Guide

Graduation Programs and Requirements

Foundation High School Program and Endorsements

House Bill 5 was signed into law in the summer of 2013 and applies to all students entering high school during the 2014-15 school year and thereafter. House Bill 5 established a single graduation program, the Foundation High School Program (FHSP). Students will have the opportunity to build on the FHSP by earning Endorsements, Performance Acknowledgements, and a Distinguished Level of Achievement. Students will declare their preferred endorsement area in writing by the beginning of their 9th grade year. Students have opportunities to change endorsement areas during the time of course selection every year. An endorsement can be earned by taking Career and Technical Education (CTE) courses or by taking non-CTE courses specified within the endorsement requirements.

The endorsement areas are:

- Arts & Humanities
- Business & Industry
- Multidisciplinary
- Public Service
- Science, Technology, Engineering & Math (STEM)

Breckenridge Independent School District offers courses to meet endorsements in all of these areas. Students should select electives that will best prepare the student for the post-secondary goals they aim to pursue.

A student may elect to graduate without an endorsement under the high school foundation program with school administrator approval after the student's sophomore year. The student and the student's parent or guardian must be advised by the school counselor of the benefits of graduating with one or more endorsement and the student's parent or guardian must file written permission with the high school allowing the student to graduate without an endorsement.

Distinguished Level of Achievement (DLA) (26 credits)

The Distinguished Level of Achievement (DLA) is the highest graduation program in the state of Texas. The Foundation High School Program + Endorsement with DLA is the default for all BISD students.

A student may earn a Distinguished Level of Achievement by successfully completing the curriculum required for the Foundation Program and successfully completing the following:

- The curriculum requirements for one or more Endorsement(s) - this includes a coherent sequence of courses that are content specific to the chosen endorsement
- Additional coursework to include:
- Four credits in mathematics, including Algebra II
- Four credits in approved science courses

Foundation High School Program + Endorsement (26 credits)

- The curriculum requirements for one or more Endorsement(s) to include a coherent sequence of courses that are content specific to the chosen endorsement
- Additional coursework to include:
- Four credits in mathematics
- Four credits in approved science courses

Note: The only difference between the FHSP+Endorsement Program and the DLA is the requirement that Algebra II must be one of the four credits in mathematics.

Foundation High School Program (FHSP) (22 credits)

- This option is the minimum graduation program available. However, it is not available until after the completion of the sophomore year. Changing to this graduation program will require parent and administrative approval in writing**. Parents and students need to understand graduating on this program may not meet college or university entrance requirements.**

Endorsement Pathways & Certifications

Students may choose a program of study/endorsement (shaded in gray) based on their career interest. When a student chooses the program of study/endorsement, they are committing to taking all 4 courses within the program, completing the endorsement. Several programs of student are end-capped with an industry-based certification. Certifications can be a useful tool to gain employment after high school.

BUSINESS & INDUSTRY ENDORSEMENT				
1ST COURSE IN SEQUENCE	2ND COURSE IN SEQUENCE	3RD COURSE IN SEQUENCE	4TH COURSE IN SEQUENCE	CERTIFICATION
AGRICULTURE, FOOD & NATURAL RESOURCES – ANIMAL SCIENCE				
PRIN. OF AG	EQUINE SCIENCE	SMALL ANIMAL	ADV. ANIMAL	N/A
AGRICULTURE, FOOD & NATURAL RESOURCES – PLANT SCIENCE				
PRIN. OF AG	FLORAL DESIGN	HORTICULTURE	ADV. PLANT & SOIL	TSFA
AGRICULTURE, FOOD & NATURAL RESOURCES – AG MECHANICS				
PRIN. OF AG	AG MECH	AG FAB	AG LAB	OSHA
CONSTRUCTION SCIENCE				
PRIN. OF CONST.	CONST. MGMT 1	CONST. MGMT 2	CONST. LAB	OSHA
HOSPITALITY & TOURISM – CULINARY ARTS				
INTRO TO CULINARY	CULINARY ARTS	ADV. CULINARY ARTS	PRACTICUM	SERV SAFE
MACHINING (RANGER JC)				
PRIN. OF AG OR PRIN. OF CONST.	CONST. MGMT. OR AG MECH.	MACHINING	MACHINING	RANGER JC
WELDING (TSTC)				
PRIN. OF AG OR PRIN. OF CONST.	CONST. MGMT. OR AG MECH.	WELDING	WELDING	TSTC
DESIGN AND MULTIMEDIA ARTS				
PRIN. OF AV ARTS	COMM. PHOTO LAB. 1	COMM. PHOTO LAB II	PRACTICUM	N/A

MULTIDISCIPLINARY ENDORSEMENT			
4 ENGLISH CREDITS	4 MATH CREDITS	4 SCIENCE CREDITS	4 SOCIAL STUDIES CR.

All students will qualify for a multi-disciplinary endorsement.

STEM - Science, Technology, Engineering and Math
A student must take 5 courses of Math (excludes MMA) or Science to complete a STEM endorsement.

PUBLIC SERVICE ENDORSEMENT				
1ST COURSE IN SEQUENCE	2ND COURSE IN SEQUENCE	3RD COURSE IN SEQUENCE	4TH COURSE IN SEQUENCE	CERTIFICATION
EDUCATION & TRAINING				
PRINCIPALS OF ED. & TRAINING	HUMAN GROWTH & DEV.	INSTRUCTIONAL PRACTICES	PRACTICUM	EDU. AIDE 1
HEALTH ENDORSEMENT (TBD)				
TBD	TBD	TBD	TBD	TBD

Graduation Programs Chart

This chart outlines credits required. Various options and levels of courses are described in this Guide.

SUBJECT AREA	FOUNDATION HIGH SCHOOL PROGRAM	FHSP + ENDORSEMENT WITH DISTINGUISHED LEVEL OF ACHIEVEMENT
ENGLISH	4 CREDITS ● ENGLISH I ● ENGLISH II ● ENGLISH III ● ENGLISH IV	4 CREDITS ● ENGLISH I ● ENGLISH II ● ENGLISH III ● ENGLISH IV
MATH	3 CREDITS ● ALGEBRA I ● GEOMETRY ● 3RD CREDIT OF MATH	4 CREDITS ● ALGEBRA I ● GEOMETRY ● ALGEBRA II ● 4TH CREDIT OF MATH
SCIENCE	3 CREDITS (CHOOSE) ● BIOLOGY ● IPC ● CHEMISTRY ● PHYSICS ● ENVIRONMENTAL SCI. ● 3RD CREDIT OF SCIENCE.	4 CREDITS (CHOOSE) ● BIOLOGY ● IPC ● CHEMISTRY ● PHYSICS ● ENVIRONMENTAL SCI. ● 4TH CREDIT OF SCIENCE
SOCIAL STUDIES	3 CREDITS ● WORLD GEO. ● WORLD HISTORY ● US HISTORY ● ECON (.5 CREDIT) ● GOVT (.5 CREDIT)	4 CREDITS ● WORLD GEOGRAPHY ● WORLD HISTORY ● US HISTORY ● ECON (.5 CREDIT) ● GOVT (.5 CREDIT)
FINE ARTS	1 CREDIT	1 CREDIT
WORLD LANGUAGE	2 CREDITS	2 CREDITS
PE	1 CREDIT	1 CREDIT
ELECTIVES	5 CREDITS	6 CREDITS
TOTAL	*22 CREDITS*	*26 CREDITS*

Personal Graduation Program Worksheet

Subject	8th or Summer School	9th Grade	10th Grade	11th Grade	12th Grade
English					
Math					
Social Studies					
Science					
Elective					
Elective					
Elective					
Elective					

Section 2: Course Catalog

English Language Arts Courses

1st English Credit Options

English I - (1 credit)
9th grade
Prerequisite: None
In English I, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on literature that highlights the theme of Coming of Age. Building on their knowledge of literary elements in traditional literary genres, students study the relationship between narrative voice and style, while also analyzing literary and stylistic elements in film and literature. They develop persuasive writing skills by using rhetorical appeals. Performance and oral interpretation of literature build students' speaking and listening skills. Research continues to play an important role as students evaluate social, cultural, and historical influences on texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

Honors English I - (1 credit)
9th grade
Prerequisite: Instructor approval and None
Honors English I engages students in learning all the essential knowledge and skills of English I while providing greater depth. Independent reading in honors courses is structured to support students' interaction with a text through the application, leading to an ability to independently analyze any new text. Students are confronted with increasingly challenging texts, both classic and contemporary, fiction and nonfiction. Students are challenged by complex writing tasks in persuasion, argumentation, literary analysis, and synthesis in order to build capacity to write effectively in these rhetorical modes. Students will exit the program equipped with the kind of higher-order thinking skills, knowledge, and behaviors necessary to be successful in post-secondary education. This course will require an End of Course Exam.

2nd English Credit Options

English II - (1 credit)
10th grade
Prerequisite: English I or equivalent
In English II, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on the concept of culture and community, and examines how these influences shape identity and perspective. Students read and analyze works of world literature, with emphasis on analysis of how stylistic choices and rhetorical elements shape tone in persuasive and argumentative texts, both print and non-print. Students deconstruct writing prompts and write a synthesis essay that incorporates perspectives from multiple sources. Students develop their independent learning skills as they respond to opportunities for self-evaluation. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

Honors English II - (1 credit)
10th grade
Prerequisite: Instructor approval and English I or equivalent
Honors English II engages students in learning all the essential knowledge and skills of English II while providing greater depth. This enhanced curriculum continues to build the tools necessary to succeed in post-secondary education. Independent reading in honors courses is structured to support students' interaction with a text through the application of close reading analysis with higher level reading strategies, leading to an ability to independently analyze any new text. Students are confronted with increasingly challenging texts, both classic and contemporary, fiction and nonfiction. Students are challenged by complex writing tasks in persuasion, argumentation, literary analysis, and synthesis in order to build capacity to write effectively in these rhetorical modes. With exposure to higher level strategies, prompts, nonfiction texts, and varied writing tasks, students will exit the program equipped with the kind of higher-order thinking skills, knowledge, and behaviors necessary to be successful in post-secondary education. This course will require an End of Course Exam.

3rd English Credit Options

English III - (1 credit)
11th grade
Prerequisite: English II or equivalent
In English III, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on American fiction and nonfiction, using literary and other texts to present the iconic idea of the American Dream. Students research historical and contemporary texts as they articulate the origins and impact of the ideas and realities of the American Dream on life today and on personal thinking. Students are expected to articulate personal convictions and propose solutions to social issues. Writing in a variety of modes - personal essays, opinions and editorials, credos, reflective self-evaluation, speeches, dramatic scripts, surveys, literary analysis, and research projects - students expand their skills in communicating well through written language. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

Dual Credit English III: ENGL 1301/1302 Composition I – (1 credit)
11th Grade
Prerequisite: English II and meet eligibility requirements
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. Prerequisite: Meet TSI college- readiness standard for Reading and Writing; or equivalent. 6 college credit hours.

4th English Credit Options

English IV - (1 credit)
12th grade
Prerequisite: English III or equivalent
In English IV, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text,

write in multiple modes, research, listen, and speak. This course capitalizes on the confidence and expertise students have gained as interpreters and analyzers of texts by introducing them to multiple lenses through which to view text. Students are asked to broaden their understanding and their interpretive skills by thinking deeply about themes and ideas from multiple perspectives. Using Historical, Cultural, Feminist, Marxist, and Archetypal Criticism, students learn to view texts through some of the filters that result in multiple interpretations of the same text or media story. Students apply the theories of criticism to their own reading and interpretation of both fiction and nonfiction texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

Dual Credit English IV: ENGL 2332/2333 British Literature – (1 credit)
12th Grade
Prerequisite: DC English III (1301/1302) and meet eligibility requirements
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. **Prerequisite**: Meet TSI college- readiness standard for Reading and Writing; or equivalent. 6 college credit hours.

Dual Credit English IV: ENGL 1301/1302 Composition I – (1 credit)
12th Grade
Prerequisite: English III and meet eligibility requirements
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. Prerequisite:

Meet TSI college- readiness standard for Reading and Writing; or equivalent. 6 college credit hours.

Journalism and Broadcast Courses

Digital Design and Media Production (1 credit)
10th Grade
Prerequisite: Principles of AV
Digital Design and Media Production will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines.

Digital Video and Audio Design (1 credit)
11th grade
Prerequisite: Digital Design and Media Prod.
Digital Design and Media Production will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines.

Practicum in Digital Design (2 credits)
12th Grade
Prerequisite: Digital Video and Audio Design
Students in the practicum of digital design will be required to work outside of the school day to ensure all aspects of BHS journalism run efficiently including, but not limited to, assignments to extra-curricular activities and/or field trips. Students who want to participate in the practicum will be approved by Mr. Best in order to participate.

Principles of Arts, Audio/Video Technology, and Communications (1 credit)
9th – 12th grade
Prerequisite: none
Digital Design and Media Production will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines.

Mathematics Courses

1st Math Credit Options (8th grade Math Prerequisite)

Algebra I - (1 credit)
9th grade
Prerequisite: 8th Grade Math
In Algebra I, 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. This course will require an End of Course Exam.

Honors Algebra I - (1 credit)
9th grade
Prerequisite: Instructor approval
Honors Algebra I students will expand on concepts covered in on-level Algebra I with an intense focus on high level application, problem solving, and higher order thinking processes. Students will also develop strategies that prepare them for post-secondary education. This course will require an End of Course Exam.

2nd Math Credit Options (Algebra I Prerequisite)

Geometry - (1 credit)
9th – 12th grade
Prerequisite: Algebra I
In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. 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. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post- secondary education. Students will also learn definitions, postulates, and theorems that help describe geometric relationships.

Honors Geometry - (1 credit)
9th – 12th grade
Prerequisite: Algebra I
Honors Geometry students will expand on concepts covered in on-level Geometry with an intense focus on high level application, problem solving, and higher order thinking processes. Students will also develop strategies that prepare them for post-secondary education math courses.

3rd Math Credit Options

Algebra II - (1 credit)
10th – 12th grade
Prerequisite: Algebra I
In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to prepare students for 4th year math courses. This course is taught with a functional approach giving students a sound foundation for either technical or non-technical degrees in college. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study polynomials, 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.

Honors Algebra II – (1 credit)
10th – 12th grade
Prerequisite: Instructor approval; Algebra I and Geometry
Honors Algebra II expands on the concepts covered in on-level Algebra II with an intense focus on high level application, problem solving, and higher order thinking processes. Students will also develop strategies that prepare them for future post-secondary math courses. **(pre-requisite for DC math)**

Math Models with Applications – (1 credit)
11th – 12th grade
Prerequisite: Algebra I & Geometry
Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in grades K-8 and Algebra I. This mathematics course provides a path for students to succeed in Algebra II 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.

4th Math Credit and Beyond Options (including Dual Credit Math Options)

Algebra II - (1 credit)
10th – 12th grade
Prerequisite: Algebra I
In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to prepare students for 4th year math courses. This course is taught with a functional approach giving students a sound foundation for either technical or non-technical degrees in college. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study polynomials, 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.

Advanced Quantitative Reasoning - (1 credit)
11th- 12th grade
Prerequisite: Geometry and Algebra II
Advanced Quantitative Reasoning is a mathematics course for high school juniors and/ or seniors that follows Algebra I, Geometry, and Algebra II. This course is a rigorous mathematics class for students who intend to major in non-technical fields of study upon entering college. In Advanced Quantitative Reasoning, 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 through weighted averages, proportion, combinatorics, voting and selection process. Students will gain understanding of probability and statistical reasoning by determining validity and usefulness of statistical data as well as finance through analyzing models for expenditures, amortization tables, and various types of loans and investments. Other topics include modeling with algebra, geometry, trigonometry, and discrete mathematics. This course serves as an *alternative* to Pre-Calculus. Students who have successfully passed Pre- Calculus are not eligible to take Advanced Quantitative Reasoning.

Dual Credit College Algebra - MATH 1314 (1/2 credit)
Prerequisite: Algebra II and meet eligibility requirements
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; may not apply toward a major in math. This is a dual credit course and may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours.

Dual Credit Elementary Statistical Methods - MATH 1342 (1/2 credit)
Prerequisite: Dual Credit College Algebra (MATH 1314) and meet eligibility requirements
Elementary Statistical Methods is the collection, analysis, presentation and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Graphing calculator required. Lab required. This is a dual credit course and may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours.

Dual Credit Pre-Calculus - MATH 2412 (1/2 credit)
Prerequisite: Dual Credit College Algebra (MATH 1314) and meet eligibility requirements
In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Graphing calculator required. Lab required. 4 college credit hours.

Dual Credit or AP Calculus I - MATH 2413 (1 credit)
Prerequisite: MATH 2412 and meet eligibility requirements
Calculus is a study of limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of area. Graphing calculator required. Lab included. 3 college credit hours.

Science Courses

Students are advised to be aware of the math course prerequisites and co-requisites for certain science courses.

1st Science Credit Courses

Integrated Physics and Chemistry (IPC) - (1 credit)
9th grade
Prerequisite: None
Integrated Physics and Chemistry is a survey lab course that reinforces the foundational knowledge required for all subsequent physical science courses. Students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

Biology - (1 credit)
9th - 10th grade
Prerequisite: None
Biology is a course designed around the study of living things. This course emphasizes a variety of topics such as 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; ecosystems; living systems; homeostasis; ecosystems; and plants and the environment. Manipulative laboratory skills, skills in acquiring data, classification skills in ordering and sequencing data, oral and written communication skills, along with career exploration will be stressed in this course. This course will require an End of Course Exam.

Honors Biology - (1 credit)
9th grade
Prerequisite: Instructor approval
This course extends the biology concepts and TEKS with an emphasis on preparing students for post-secondary science. Honors Biology will be a lab-oriented course designed for students exhibiting advanced achievement levels in the biological sciences. This course shall exceed the content and depth of a standard Biology course both in the classroom and laboratory experiences. Honors Biology will strive

for higher levels of learning; creative thinking, and critical evaluation tenets such as analyzing, synthesizing, and formulating logical conclusions. This course will require an End of Course Exam.

2nd Science Credit Courses

Chemistry - (1 credit)
10th - 11th grade
Prerequisite: One unit of high school science and Algebra I
Co-requisite: Geometry - recommended
This course emphasizes a variety of topics that include: characteristics of matter, energy transformations during physical and chemical changes; atomic structure; the periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction; chemical equations; solutes; properties of solutions; acids and bases; and stoichiometric relationships. Chemistry is a course that is oriented toward college preparation and is grounded in a laboratory approach to the study of the matter. Manipulative laboratory skills, skills in acquiring data, classification skills in ordering and sequencing data, oral and written communication skills, along with career exploration will be stressed in this course. Semesters must be completed in sequence (1st then 2nd).

Honors Chemistry - (1 credit)
10th grade
Prerequisite: Instructor approval and One unit of high school science
Co-requisite: Geometry - recommended
This course extends the chemistry concepts and TEKS with an emphasis on preparing students for post-secondary science. This is a lab-oriented course designed for students exhibiting advanced achievement levels in the chemical sciences. This course shall exceed the content and depth of a standard Chemistry course both in the classroom and laboratory experiences. Honors Chemistry will strive for higher levels of learning; creative thinking, and critical evaluation tenets such as analyzing, synthesizing, and formulating logical conclusions.

3rd and 4th Science Credits and Additional Science Electives

Physics - (1 credit)
11th – 12th grade
Prerequisite: Algebra I, Geometry
Co-requisite: Algebra II (recommended)
Physics is designed to provide a laboratory-oriented approach to the study of matter and energy. The course provides for the development of understanding of the physical laws and devices that govern the world around us. Topics of study include motion, forces, energy, momentum, thermodynamics, waves, and modern physics. This course emphasizes the use of mathematics to solve problems.

Honors Physics - (1 credit)
11th – 12th grade
Prerequisite: Instructor approval and Geometry
Co-requisite: Algebra II (required)
Honors Physics is equivalent to the first semester of a typical introductory, algebra-based college physics course. Topics of study include Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Emphasis is placed on student-centered, inquiry-based instructional practices to develop scientific critical thinking and reasoning skills.

Environmental Systems - (1 credit)
11th – 12th grade
Prerequisite: Biology and IPC or Chemistry
Environmental Systems is a course in which students study a variety of topics that include: 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; relationships between carrying capacity and changes in populations and ecosystems; and changes in environments. Students will conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving.

Science + CTE Credit Courses

Advanced Animal Science (1 credit, *CTE*)
12th grade
Prerequisites: Biology and Chemistry or Integrated Physics and Chemistry; Algebra I and Geometry
1 of the following - Equine Science, Livestock Production or Small Animal Management
To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

Advanced Plant and Soil Science - (1 credit, *CTE*)
12th grade
Prerequisite: Horticultural Science
This course 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. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. *Materials fee may be required for this course.*

Anatomy and Physiology - (1 credit, *CTE*)
11th – 12th grade
Prerequisite: Biology
Anatomy and Physiology is a college preparatory and a laboratory-oriented course that will provide opportunities for the student to observe anatomical structures and examine physiological systems. Acquiring, classifying, and sequencing data; experiences in oral and written communication; and career explorations are skills that will be addressed in this course. Students in this course may choose to take courses in Health Science Technology.

Dual Credit Science Courses

DC Anatomy and Physiology – BIO 24101/2402 - (1 credit, *CTE*)
11th – 12th grade
Prerequisite: Biology

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized. 4 college credit hours each semester

Social Studies Courses

1st Social Studies Credit Options

World Geography - (1 credit)
9th grade
Prerequisite: None
World Geography is the study of the earth, its regions, and the people who live in these regions. Students will study topography, weather, and climate of each region as well as the languages, customs, and ways of living of the people who inhabit these regions. In addition, the interaction of people with the environment and with each other will be studied. Students will become familiar with the relative locations of the world's continents, oceans, and countries and will learn to use maps, charts, graphs, and other methods of research used by geographers.

2nd Social Studies Credit Options

World History Studies - (1 credit)
10th grade
Prerequisite: None
World History aims both to discover general knowledge about the development and diffusion of civilization and to foster an appreciation that such knowledge is vitally important to understanding our modern era. This course aims to develop students' historical understanding, broaden their perspective on world affairs and sharpen their critical thinking skills.

3rd Social Studies Credit Options

United States History - (1 credit)
11th grade
Prerequisite: None
United States History covers the period after Reconstruction to the present and will include the following: emergence of the United States as a world power, the economic development and growth of the United States, and the social and cultural development of the United States. This course will require an End of Course Exam.

DC US History: HIST 1301/1302 U.S. History – (1 credit)
11th grade
Prerequisite: Must meet eligibility requirements
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. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I 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. Also, a survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction period to the present. United States History II examines industrialization,

immigration, world wars, the Great Depression, Cold War, and post-Cold War eras. Themes that may be addressed in United States History II 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. Students taking dual credit US History are required to take the Texas End of Course Exam (EOC) for US History. 3 college credit hours per semester

4th Social Studies Credit Options

U.S. Government - (1/2 credit)
12th grade
Prerequisite: None
United States Government provides an opportunity for students to study foundations of the United States political system, development of the United States governmental system, the structure and functions of the United States government, and the role of decision-making in civic affairs. US Government is typically paired with Economics for a full credit.

Dual Credit Government: GOVT 2305 Federal Government (1/2 credit)
12th grade
Prerequisite: Meet eligibility requirements
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 credit hours. This course satisfies the high school requirement of Government. Dual Credit Government is typically paired with Dual Credit Economics for a full year credit.

Economics - (1/2 credit)
12th grade
Prerequisite: None
Economics with Emphasis on the Free Enterprise System and Its Benefits emphasizes the American free enterprise system, government in the American economic system, American economic system and international economic relations, consumer economics, and social studies attitudes, values, and skills for citizenship. Economics is typically paired US Government with for a full credit.

Dual Credit Economics: ECON 2302 Principles of Microeconomics – (1/2 credit)
12th grade
Prerequisite: Must meet eligibility requirements
Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade. 3 credit hours. This course fulfills the high school requirement for Economics.

Fine Arts Courses

Floral Design - (1 credit)
10th –12th grade
Prerequisite: Principles of Agriculture
To be prepared for careers in floral design, students need to attain academic skills and knowledge as well

as 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. 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 develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. *Materials fee required for this course. May count as a fine arts credit.*

Music

Band I-IV - (1 credit)
9th – 12th grade
Prerequisite: Audition and Teacher recommendation
Band is a full year course concentrating on the continued development of fundamental wind and percussion skills. Students will be exposed to many styles of music through rehearsal and performances throughout the year. Participating in fall marching band allows students to waive 1⁄2 credit of the required P.E. credits. Students enrolling in any band course are required to participate in marching band. Special exceptions to this may only be considered in extenuating health related circumstances and must be discussed directly with the program director and campus principal or their designee for consideration. *Additional expenses for supplies will be incurred.* A balanced focus on both individual and ensemble development occurs throughout both semesters.

Theatre Arts

Theatre Arts I-IV - (1 credit)
9th – 12th grade
Prerequisite: None
Theatre Arts I general areas of study include but are not exclusive to the following: performance skills of improvisation, pantomime, mime, voice and diction, stage movement and acting. Additional areas explored are history of the theatre and careers in theatre. Technical aspects discussed are design concepts of lighting, sound, scenery, props, makeup, costumes and publicity. Students will be involved in many performance projects each grading period and written and visual projects throughout the year. Students are required to purchase a specific list of supplies determined by the program director. Some required aspects of this course may occur outside of the school day.

Theatre Production I-IV - (1 credit)
9th - 12th grade
Prerequisite: None
A full year course for advanced theatre students that explores various production aspects of the art of Theatre. This class is largely project based and may require production hours outside of class as a component of the student's grade. Please check with the program director for more information.

Foreign Languages

Spanish I - (1 credit)
9th – 11th grade
Prerequisite: none

Students in Spanish I will be able to express meaning in simple contexts and understand sentence- length information. Students may be generally understood by people accustomed to dealing with language learners. Students will acquire and discover the target language through speaking, listening, reading, and writing activities. This course will lay the framework for continuing in the target language and will introduce students to the target language cultures. *The majority of this course is conducted in the target language.*

Spanish II - (1 credit)
10th – 12th grade
Prerequisite: Spanish I
Students in Spanish II will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to begin communicating in a target language environment. *The majority of this course is conducted in the target language.*

Spanish II Honors - (1 credit)
10th grade
Prerequisite: Spanish I
Students in Spanish II will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to begin communicating in a target language environment. *The majority of this course is conducted in the target language.*

Spanish III Honors – (1 credit)
10th – 12th grade
Prerequisite: Honors Spanish II
Spanish III Honors focuses on delivery of content through thematic units while expanding on relevant vocabulary and refining the accuracy of expression by knowing the components of language. This course begins to incorporate themes within the units of study and makes connections between the themes and real-world applications. The focus of this course is developing intermediate-mid proficiency. *This course is held in the target language.*

Computer Science I - (1 credit)
9th –12th grade
Prerequisite: Algebra or Concurrent Enrollment
This is a beginner's level approach to computer programming using the Java language. No previous knowledge of programming is necessary. Students will develop and apply algorithms to solve real- world problems. Programming concepts will be taught using structured programming techniques such as data types, program input/output, if statements, loops, arrays, and lists. Object-oriented programming will also be introduced. Other topics include debugging, hardware components, and social implications of computer systems. Upon completion of this course, the student will have created software programs using computer science programming concepts..

Computer Science II - (1 credit)
10th –12th grade
Prerequisite: Computer Science 1
This class builds on computer science skills learned in computer science I. Students will develop and apply algorithms to solve real- world problems. Programming concepts will be taught using structured programming techniques such as data types, program input/output, if statements, loops, arrays, and lists. Object-oriented programming will also be introduced. Other topics include debugging, hardware components, and social implications of computer systems. Upon completion of this course, the student will have created software programs using computer science programming concepts.

Dual Credit Computer Science - (1 credit)
11th –12th grade
Prerequisite: Computer Science I and II, must meet eligibility requirements
This class builds on computer science skills learned in computer science II. Students will develop and apply algorithms to solve real- world problems. Programming concepts will be taught using structured programming techniques such as data types, program input/output, if statements, loops, arrays, and lists. Object-oriented programming will also be introduced. Other topics include debugging, hardware components, and social implications of computer systems. Upon completion of this course, the student will have created software programs using computer science programming concepts.

Health and Physical Education Courses

Foundations of Personal Fitness PE - (1 credit)
9th - 12th grade
Prerequisite: None
This course motivates students to strive for lifetime personal fitness with an emphasis on the health-related components of physical education. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class.

Athletics - (1 credit)
9th - 12th grade
Prerequisite: None
Students in Individual Sports are exposed to a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sport activities that are enjoyable are a major objective of this course. Students in Team Sports develop health-related fitness and an appreciation for team work and fair play. A major objective of this course is incorporating physical activity into a lifestyle beyond high school.

Transition Courses

Work-Based Learning
12th grade
Prerequisites: Committee Recommendation and currently employed, minimum age of 16
Work-Based Learning is a transition educational experience that provides students with meaningful school based and community based work experiences based on his/her individualized post-secondary vocational goals. The Vocational Adjustment Course I program targets student's future goal planning and adult world transitions. Students participate in quality work experiences that are offered to them prior to exiting school (i.e., apprenticeships, mentoring, paid and unpaid employment, service learning, school-based

enterprises, on-the job training, and internships). Student must maintain a minimum of fifteen hours per week of paid employment.

General Elective Courses

Dual Credit Psychology PSYC 2301/2314- (1 credit)
12th grade
Prerequisite: None
Psychology encompasses broad areas of study about human behavior and it enables the students to better understand themselves and others. The goal of this course is to create active intellectual and emotional involvement by the student, not only in learning about the science of psychology, but in life as well. It is a one semester elective course.

Student Aid
11th-12th grade
Prerequisite: Interview with sponsor
Student aids are an integral part of the high school experience. Student aids should have a strong academic and discipline history. Students who are selected to be aids will be trusted with tasks that general students would not be so their responsibility level should be extremely high.

Career & Technical Education Course Offerings

Agriculture, Food & Natural Sciences

Animal Science

Principles of Agriculture, Food, and Natural Resources - (1 credit)
9th –10th grade
Prerequisite: None
To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings in which this course specifically targets the four main sectors of agriculture; animal sciences, horticulture sciences, agriculture mechanics, and civic leadership. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, and best practices used in a variety of agricultural fields. Students will also have the option to join the FFA organization where they will develop leadership and communication skills as well as the opportunity to participate in the animal industry through livestock showing or career development events.

Small Animal Management - (1 credit)
10th –12th grade
Prerequisite: None
This course is designed to develop knowledge and skills pertaining to the ownership, selection, reproduction, nutritional requirements, health and management, and breed identification of a variety of small animals common to the pet industry. This is a laboratory-oriented course that gives students hands-on experience in working with a variety of small animals that may include, but are not limited to

dogs, cats, Guinea pigs, rabbits, other small mammals, as well as birds, reptiles and amphibians. It is highly recommended that students interested the Veterinary Medical Applications program take Small Animal Management. Students may also capitalize on the opportunity to join the FFA organization. Small Animal Management will fulfill one of the prerequisites set for Veterinary Medical Applications.

Equine Science - (1 credit)
10th - 12th grade
Prerequisite: None
This course is designed to introduce students to the many aspects of the horse industry. Students will learn the basics of horse care, breed standards, equine nutrition, accepted management practices, reproduction, equestrian events, and common training theories and techniques. Students will further develop their knowledge of careers in the equestrian field. Students will have the opportunity to improve their leadership skills through the FFA organization. Equine Science will count toward fulfilling prerequisites set for Veterinary Medical Applications.

Advanced Animal Science - (1 credit)
12th grade
Prerequisite: 2 of 3 courses - Equine Science, Livestock Production or Small Animal Management
To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. *This course may qualify as a science credit.*

Floral Design

Floral Design - (1 credit)
10th - 12th grade
Prerequisite: Principles of Agriculture
This is an activity-based course structured to prepare students in the production of specialized floral designs, identify and classify plants and flowers, and use artistic elements of design to create personal floral arrangements. Students will develop knowledge and skills that enable them to understand the business practices used in the floral design industry as well as providing the opportunity for students to expand their leadership skills in the FFA organization. A materials fee is required for this course and successful completion of both semesters of this course may fulfill the fine arts credit required for graduation. This course provides the necessary training and instruction for students to participate in testing for the Texas State Florist's Certification. Materials fee may be required for this course. This course may count as a Fine Arts credit.

Horticultural Science - (1 credit) (CTEC)
10th - 12th grade
Prerequisite: None

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture 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 knowledge and skills in a variety of settings. This course is designed to develop an understanding of common horticultural

management practices as they relate to food and ornamental plant production. Materials fee may be required for this course.

Advanced Plant and Soil Science - (1 credit, *CTE*)
12th grade
Prerequisite: Horticultural Science
This course 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. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. *Materials fee may be required for this course. This course may qualify as a science credit.*

Agriculture Mechanics

Agricultural Mechanics & Metal Technologies - (1 credit)
9th - 12th grade
Prerequisite: None
To be prepared for careers in agricultural power, structural, and technical systems, students need to 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. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. 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 metalworking techniques. This class does not involve automotive. Materials fee may be required for this course.

Agricultural Structures Design & Fabrication - (1 credit)
10th - 12th grade
Prerequisite: Agricultural Mechanics & Metal Technologies
To be prepared for careers in mechanized agriculture and technical systems, students attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings. Materials fee may be required for this course.

Agricultural Equipment Design & Fabrication - (1 credit) (CTEC)
11th - 12th grade
Prerequisite: Agricultural Structures Design and Fabrication
This Career and Technical course will give the student hands on opportunities to repair and maintain internal combustion engines, electrical, and hydraulic systems. Scientific, mathematical, economic, and technical principles are reinforced in this course, as are communication and critical thinking skills. Supervised agricultural experience SAE programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies. Materials fee may be required for this course. Students in this course will have the opportunity to earn the OSHA certification.

Practicum in Agricultural Structures & Equipment – (2 credits) (CTEC)
12th grade
Prerequisite: Agricultural Equipment Design & Fabrication or Introduction to Welding
The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should 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 success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts. Materials fee may be required for this course.

Architecture & Construction

Principles Construction - (1 credit) (CTEC)
9th –12th grade
Prerequisite: None
To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings in which this course specifically targets the four main sectors of architecture and construction.. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, and best practices used in a variety of construction fields.

Construction Management- (1 credit) (CTEC)
10th –12th grade
Prerequisite: None
Architecture and Construction I provides an overview to the various career opportunities in the Building Industry. Students will gain foundational knowledge and skills to move on to Architecture and Construction II. Both digital and traditional forms of technical and non-technical drawing are taught in conjunction with basic design principles. Students will also learn about construction material and methods and how to apply this knowledge in drafting. Architecture and Construction I introduces the students to basic principles of geometry and physics as applied to building construction. Students will be expected to utilize both creative “left-brained” thinking and analytical “right-brained” thinking for creative problem-solving projects in this course.

Construction Management II - (1 credit) (CTEC)
11th –12th grade
Prerequisite: Architecture and Construction I
In Architecture and Construction II, students gain knowledge and skills that will help them on their way to a post-secondary education or career in Architecture and Construction. Students will learn how to develop preliminary concepts into finalized designs through traditional and digital mediums. Architectural design introduces students to state and local building codes, foundational design criteria, and construction techniques for the purpose of both residential and small commercial design while also introducing more theoretical elements such as Architectural history and basic design theory. Students in this course will have the opportunity to earn the NCCEA Carpentry Level 1 Certification.

Practicum Construction Management – (2 credits) (CTEC)
12th grade
Prerequisite: Construction Management II
The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Architecture and Construction cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To be prepared for careers in architecture and construction, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of architecture and construction. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

Business, Management & Administration

Business Information Management I - (1 credit)
9th –12th grade
Prerequisite: None
Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society. Students apply technical skills to, improve keyboarding proficiency, create word-processing documents, develop spreadsheets, formulate databases, as well as create and animate electronic presentations using Microsoft Office software. These skills will assist students in making a successful transition to the postsecondary education and the workforce.

Education & Training

Principles of Education and Training - (1 credit)
9th –12th grade
Prerequisite: None
Do you want to make a difference? What does it take to be an effective and dynamic educator in an ever-changing society? This course will explore opportunities in the educational clusters and provide students with experiences to develop skills needed to be successful within the teaching profession. These experiences would include but are not limited to creating and presenting engaging lesson plans, strategies for classroom management, and provide tools for a teacher to meet the name and need for every student.

Human Growth and Development- (1 credit)
10th –12th grade
Prerequisite: None
This technical laboratory course addresses parenting as well as the growth and development of children. Students will explore knowledge and skills related to parenting, relationships, family dynamics, child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Instructional Practices - (2 credits) (CTEC) (Available in 2021-2022)
11th –12th grade
Prerequisite: Principles of Education & Training
Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of school-aged child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel. *Background check required. Students must provide their own transportation to and from the off-campus field sites.*

Practicum in Education and Training - (2 credits) (CTEC) (Available in 2022-2023)
12th grade
Prerequisite: Education and Training, Program Qualification Form Required
Practicum in Education and Training is a field-based internship that provides students background knowledge of the school-aged child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel. *Background check required. Students must provide their own transportation to and from the off- campus field sites. Students in this course will have the opportunity to earn the Education Aide Level 1 certification.*

Cosmetology

Introduction to Cosmetology - (1 credit)
9th-12th Grade
Prerequisite: None
Students explore careers in the cosmetology industry. To prepare for success, students must have academic knowledge, technical knowledge, and skills relative to the industry.

Principles of Cosmetology Design and Color Theory (One Credit)
10-12th
Prerequisite: None
In Principles of Cosmetology Design and Color Theory, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

Hospitality and Tourism

Introduction to Culinary Arts - (1 credit)
9th-12th Grade
Prerequisite: None
During this full year course, students will pursue a Texas Food Handlers food safety certification (ServSafe Kitchen Manager Certification, which is mandatory for taking Culinary Arts at the CTE Center). This course is also designed to introduce students to the methods and concepts of food preparation. Laboratory practice will parallel class work. Also, included in this course are the different aspects of the restaurant setting, including both front and back of the house. Students will have the opportunity to participate in related career and technical organizations & educational study trips as well as explore career opportunities and pathways in the Hospitality & Tourism Program of Study. *Testing and materials fee may be required for this course.*

Culinary Arts - (2 credits) (CTEC)
11th –12th grade
Prerequisite: Introduction to Culinary Arts, Food handlers Certification, Program Qualification Form Required
Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. This course offers direct hands-on experience and instruction in Back of House, restaurant operations, as well as catering opportunities. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. *Materials fee may be required for this course. The one-year e-Foodhandlers certification will not be permissible to enter this class.*

Advanced Culinary Arts - (2 credits) (CTEC)
12th grade
Prerequisite: Culinary Arts, Program Qualification Form Required
This course is a unique advanced culinary arts that provides hands-on opportunities for students to participate in a real commercial kitchen setting. Advanced Culinary Arts 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 are taught employability skills, which include job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Advanced Culinary Arts is relevant and rigorous, supports student application of academic standards, and effectively prepares students for college and career success. This course offers hands-on experience and instruction in both Front of the House and Back of the House, restaurant operations, as well as catering opportunities. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

STEM

DC Drones (Ranger)
11-12th Grades
Prerequisite: None
Students in the dual credit drone course will have the opportunity to study drone usage, technical skills and real world drone application. Students who take this course will test to become FAA certified.

Engineering Science (Rocketry) (1 Credit)
9th -12th Grades
Prerequisite: None
Students will explore engineering concepts. Students will utilize engineering concepts in the field to design, build and test projects in the classroom and be provided with opportunities to test the project.

TSTC Pathways

Welding 11th-12th Grades
Prerequisite: 9th & 10th grade level courses from Ag Mech Recommended
Students interested in pursuing welding as a career may enroll in dual-credit welding courses offered at TSTC. Students who enroll in these courses are not required but need to understand that a commitment to the program after high school is expected as a part of completing the TSTC degree. Information on these courses may be obtained from the BHS counselor or TSTC. Due to the time commitment, students enrolling in these courses must be on target to graduate and could need to take accelerated learning courses in order to make room in their schedule for the required courses. Students enrolled in this course will be expected to become TSI qualified before their senior year.

Ranger Pathway

Machining 11th-12th Grades
Prerequisite: 9th & 10th grade level courses from Ag Mech or Construction Management Recommended
Students interested in pursuing machining as a career may enroll in dual-credit machining courses offered at BHS. Students who enroll in these courses are not required but need to understand that a commitment to the program after high school is expected as a part of completing the Ranger College degree. Information on these courses may be obtained from the BHS counselor or Ranger College. Due to the time commitment, students enrolling in these courses must be on target to graduate and could need to take accelerated learning courses in order to make room in their schedule for the required courses. Students enrolled in this course will be expected to become TSI qualified before their senior year.