Glen Rose High School

Course Description Catalog

2018-2019



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**Distinguished Endorsement Foundation High School Program**

**Plan required if student plans to attend a 4 year university directly after HS graduation.**

|  |  |
| --- | --- |
| **Subject Areas** | **Number of Credits and Courses (26 Credits Total)**  |
| **English** | 4 CreditsEnglish 1,2,3,4 |
| **Math** | 4 CreditsAlgebra 1, Geometry, Math and Algebra 2, or Algebra 2 and 1 advanced math  |
| **Science** | 4 CreditsBiology, IPC or Chemistry or Physics or Principles of Tech., 2 additional sciences\* |
| **Social Studies** | 3 CreditsWorld Geography and/or World History, U.S. History, Government and Economics |
| **Physical Education**  | 1 CreditAthletics, Fall Band, Color Guard, PE |
| **Second Language** | 2 CreditsMust be the same language |
| **Fine Arts** | 1 CreditArt, Band, Choir, Color Guard, Theater |
| **Speech** | SpeechStudents’ will demonstrate proficiency in speech in all English classes |
| ***7 Credits: Choose one or more of the following endorsements.*** |
| **STEM***Chemistry and Physics Required* | 4 STEM Endorsement Elective Credits*3 of the 4 credits must be from the same career cluster with one being an advanced course*AND 3 General Elective Credits | 2 Advanced Math for a total of 5 Math Credits (Financial Math will not count, PNT can replace Physics as science credit)AND 6 General Elective Credits | 2 Additional Science for a total of 5 Science Credits (IPC and PNT will not count)AND 6 General Elective Credits |
| **Business and Industry** | 4 B&I Endorsement Elective Credits*3 of the 4 credits must be from the same career cluster with one being an advanced course*AND 3 General Elective Credits |
| **Arts and Humanities** | 2 Additional Social Studies OR LOTE Credits *same language*AND 5 General Elective Credits | 4 Fine Arts Credits Total*in no more than 2 categories*AND 4 General Elective Credits |
| **Public Services** | 4 PS Endorsement Elective Credits*3 of the 4 credits must be from the same career cluster with one being an advanced course*AND 3 General Elective Credits |
| **Multidisciplinary Studies***Chemistry Required* | 1 Additional Social Studies CreditAND 6 General Elective Credits | 4 AP or Dual Credit Courses in English, math, science, social studies, LOTE, or fine artsAND 7 General Elective Credits |

**General Electives** include all endorsement electives and all other electives.

**Comparison of Foundation and Distinguished Endorsement High School Program**

|  |  |  |
| --- | --- | --- |
| **Subject Areas** | **Foundation High School Program 2** | **Distinguished Endorsement Foundation High School Program** |
| **English** | 4 CreditsEnglish 1,2,3,4 |
| **Math** | 3 Credits* Algebra 1
* Geometry
* Math
 | 4 Credits* Algebra 1
* Geometry
* Math Models and Algebra 2

 OR Algebra 2 and Advanced Math |
| **Science** | 3 Credits* Biology
* IPC or Chemistry or Physics or Principals of Technology
* 1 Additional Science

*Can’t earn credit for both Physics and Principals of Technology* | 4 Credits* Biology
* IPC or Chemistry or Physics or Principals of Technology
* 2 Additional Sciences

*Can’t earn credit for both Physics and Principals of Technology* |
| **Social Studies** | 3 Credits* World Geography and/or World History *(both recommended)*
* U.S. History
* Government and Economics
 |
| **Physical Education**  | 1 CreditAthletics, Fall Band, Color Guard, PE |
| **Second Language** | 2 CreditsMust be the same language3 |
| **Fine Arts** | 1 CreditArt, Band, Choir, Color Guard, Theater |
| **Speech** | SpeechStudents’ will demonstrate proficiency in speech in all English classes |
| **Endorsement****and/or Electives** | 5 Credits | 7 CreditsSee requirements of selected endorsement(s) |
| **Total Credits** | 22 Credits | 26 CreditsPerformance acknowledgement 4 |

1. Permission to change diploma plans or endorsements must be agreed to in writing and signed by the student, student’s parent, and a school counselor or school administrator.
2. The foundation diploma plan will not be accepted by 4 year universities. Students graduating on this diploma plan will be required to go to a 2 year college before they can transfer to a 4 year college.
3. Students may earn performance acknowledgements outstanding performances in:
* dual credit- earn a minimum of 12 college hours with a score of 80 (B) or above
* bilingualism- earning an 80 or higher in all required English classes, and earning an 80 or higher in 3 levels of a language other than English
* AP test- earning a score of 3 or higher on a college board advanced placement examination
* PSAT, ACT-PLAN, SAT, or ACT- earning a PSAT score that qualifies the student for recognition as a commended scholar or higher, earning the college readiness bench mark score on 2 or the 4 subject areas on the ACT-PLAN, earning a combined reading and math score of 1250 or higher on the SAT, earning a composite score of 28 on the ACT.
* Certification: earning a nationally recognized business or industry certification or licensures.
1. Advanced measures consist of any combination of the following measures:
* Score 3 or higher on AP exam.
* Make a 3.0 (B) in a college (dual credit) course.
* Be a commended scholar or higher on PSAT.
* Complete a research project under supervision.

**Endorsements:**

* STEM- science, technology, engineering, math
* Business & Industry- information technology, communication, accounting, finance marketing, graphic design, architecture, construction, welding, automotive, agriculture
* Public Service- Health science, education, law enforcement, culinary arts, hospitality
* Arts & Humanities- political science, world languages, cultural studies, English, history, fine arts
* Multidisciplinary Studies- combination on 2 or more other endorsement

**STAAR-EOC Requirements for Graduation**

Meet Passing Standards for: English I, English II, Algebra I, Biology, and US. History

**English Department**

**English 1**

**Semester(s):** **2** **Credit:** **1**

**Grade: 9**

High school students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use to the conventions and mechanics of written English and produce final, error-proof drafts. In English 1, students practice all forms of writing. An emphasis is placed on organizing logical arguments with clearly expressed related definitions, theses, and evidence. English 1 students read extensively in multiple genres from world literature such as selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work. Student will demonstrate proficiency in speech.

**English 1 PAP**

**Semester(s): 2** **Credit:** **1**

**Grade: 9**

English 1 Pre-Advanced Placement is designed to prepare the student in the basics of exposition and literary explication, while simultaneously emphasizing objectives from four fundamental aspects; grammar, reading, writing, and listening. The student will identify and discuss various authors’ use of particular literary devices or techniques to create a composition from selected works of literature. The compositions should be a minimum of three pages each in length. The student shall compose a composition based upon a free-response question as well. This question shall be based upon the student’s prior readings in class. The student is expected to cite specific examples and/or lines from the specific works he selects. Each of these compositions must include the following aspects: creative opening, author title, link from opening to tone, three to five particular aspects, blended or partial quotations, elaboration, clincher sentence, and closing thought provoker. Student will demonstrate proficiency in speech.

**English 2**

**Semester(s):** **2** **Credit:** **1**

**Grade: 10 Prerequisite:** **English 1**

An emphasis is placed on expressive forms of writing such as logical arguments, expressions of opinion, and personal forms of writing. These may include a response to literature, a reflective essay, or an autobiographical narrative. English 2 students read extensively in multiple genres from world literature such as selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work. Student will demonstrate proficiency in speech.

**English 2 PAP**

**Semester(s):** **2** **Credit:** **1**

**Grade: 10 Prerequisite:** **English 1**

The objectives of this course include those of all English 2 courses. In addition, English 2 AP objectives are integrated. Students will learn about the times in which some texts were written so that they can see a historical work in its original context as well as in the context of human experience today. Goals for writing are not necessarily limited to analytical essays about literature. More outside reading is required. In order to be successful in English 2 Pre-AP, students need to plan to dedicate an average of 45 minutes to one hour each day on outside class preparation. Major assignments will require even more time. Extended independent study will help students to accumulate a body of knowledge about topics, which might be a single work or several related works by one or more authors. Much of the work is individualized in that students learn to develop their own ideas and capabilities. In this class, students will frequently view film clips of classical literature and contemporary works. These are useful to help students recognize much of the figurative techniques and better understand and analyze the styles of the authors. These are not planned to replace the reading of the works, only to enhance them. Student will demonstrate proficiency in speech.

**English 3**

**Semester:** **2** **Credit:** **1**

**Grade: 11 Prerequisite:** **English 2**

Students enrolled in English 3 continue to increase and refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. English 3 students learn literary forms and terms associated with selections being read from American literature and other world literature. Students will be provided oral and written narratives as well as other informational texts that can help them to become thoughtful, active citizens who appreciate the basic democratic values of our state and nation. Student will demonstrate proficiency in speech.

**English 3 PAP**

**Semester:** **2** **Credit:** **1**

**Grade: 11 Prerequisite:** **English 2**

Students enrolled in English 3 continue to increase and refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. English 3 students learn literary forms and terms associated with selections being read from American literature and other world literature. Students will be provided oral and written narratives as well as other informational texts that can help them to become thoughtful, active citizens who appreciate the basic democratic values of our state and nation. This is a college preparatory course; therefore, students are expected to be independently motivated toward learning. In order to be successful in English 3 Pre-AP, students need to plan to dedicate an average of 45 minutes to one hour each day on outside class preparation. Major assignments will require even more time. Extended independent study will help students to accumulate a body of knowledge about topics, which might be a single work or several related works by one or more authors. Much of the work is individualized in that students learn to develop their own ideas and capabilities. Student will demonstrate proficiency in speech.

**English 3 Dual Credit**

**Semester(s): 2 Credit: 1**

**Grade: 11 College Credit: 6 hrs**

**Prerequisites: Meet TSI requirements**

Student will demonstrate proficiency in speech.

ENGL 1301. Composition.

A review of the principles of grammar, punctuation, and sentence structure; spelling drill and vocabulary; selected readings; theme writing with emphasis on organization of the whole composition, paragraph development, and effective sentences for expository and argumentative-persuasive writing; library use, individual conferences.

ENGL 1302. Composition and Introduction to American Literature.

Studies in analyzing literature and the writing of critical papers; selected readings; a review of research and documentation procedures leading to the production of a research paper; mechanics of composition as necessary for each class.

**English 4**

**Semester(s):** **2** **Credit:** **1**

**Grade: 12 Prerequisite**: **English 3**

English 4 is a college bound course that affords the senior student the opportunity for an accelerated study and scholastic and personal enrichment in English. The main areas of study are composition and literature. The study of composition includes a review of the conventions of sound writing, expanded and rigorous work with the common strategies of written composition, research, vocabulary work, and introduction to sophisticated stylistic considerations, and experimentation with various types of literary discourse. The primary literary study emphasizes major British authors and their works, major periods of British literature, and significant literary genres in British literature. Through a guided reading program, the senior student may also read selections from world literature. Student will demonstrate proficiency in speech.

**English 4 Dual Credit-Freshman Level**

**Semester(s): 2 Credit: 1**

**Grade: 11 College Credit: 6 hrs**

**Prerequisites: Meet TSI requirements**

Student will demonstrate proficiency in speech.

ENGL 1301. Composition.

A review of the principles of grammar, punctuation, and sentence structure; spelling drill and vocabulary; selected readings; theme writing with emphasis on organization of the whole composition, paragraph development, and effective sentences for expository and argumentative-persuasive writing; library use, individual conferences.

ENGL 1302. Composition and Introduction to American Literature.

Studies in analyzing literature and the writing of critical papers; selected readings; a review of research and documentation procedures leading to the production of a research paper; mechanics of composition as necessary for each class.

**English 4 Dual Credit-Sophomore Level**

**Semester(s):** **2** **Credit:** **1**

**Grade: 12 College Credit: 6 hrs**

**Prerequisites: Eng. 3 Dual Credit**

Student will demonstrate proficiency in speech.

ENGL 2322. English Literature I.

A general survey of English literature from its origin through the 18th century; some consideration of historical background and development; emphasis on emerging ideas and surviving influences.

ENGL 2323. English Literature II.

Further study of English literature from the Romantic period to the present; selected readings from major authors; emphasis on emerging ideas and surviving influences.

**Math Department**

**Algebra 1**

**Semester(s):** **2** **Credit:** **1**

**Grade: 9**

Algebra 1 is a required math course for most high school students. It is a prerequisite for Algebra 2 and Geometry. This course is designed to establish a foundation in applying mathematical principles to problem solving situations, which will enable the students to make connections in other disciplines

**Geometry**

**Semester(s): 2 Credit: 1**

**Grades: 9-10 Prerequisite: Algebra 1**

Students successfully completing this course will obtain an understanding of basic geometric undefined terms, defined terms, postulates, and theorems. They will develop the ability to solve problems deductively through the process of formal and informal proofs as well as inductively through the process of discovery learning. The student will then be able to integrate knowledge and problem solving skills into other areas of mathematics and solve higher level, real world problems.

**Geometry PAP**

**Semester(s):** **2** **Credit:** **1**

**Grades: 9-10 Prerequisite:** **Algebra 1**

Pre-AP Geometry is a full year course that is placed between Algebra I and Pre-AP Algebra II curriculum. It includes all standard geometry topics as outlined in the Texas Essential Knowledge and Skills (TEKS) with a more in-depth study of the topics necessary for Pre-Calculus. Additionally, SAT I and SAT II topics and more advanced algebra training will be included.

**Math Models**

**Semester(s): 2 Credit: 1**

**Grades: 10-11th Prerequisite: Alg. 1 and Geom.**

Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 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.

Math Models is intended for students who plan on Alg. 2 to be their 4th math.

**Algebra 2**

**Semester(s): 2**  **Credit:** **1**

**Grades: 10-12 Prerequisites:** **Algebra 1 & Geometry**

Algebra 2 builds on foundations from Algebra I preparing students for pre-calculus. Students successfully completing Algebra 2, Geometry, and pre-calculus can expect success in College Algebra, a required course in most college degree plans. Homework is assigned on a regular basis and is very important in the student’s mastery of objectives and preparation for tests.

**Algebra 2 PAP**

**Semester(s): 2**  **Credit:** **1**

**Grades: 10-12 Prerequisites:** **Algebra 1 & Geometry**

This course is a more in-depth and rigorous version of Algebra 2. Students who may take Advanced Pre-Calculus and/or AP Calculus should take this course.

**Independent Study-Algebra Dual Credit**

**Semester (s): 2 Credit: 1**

**Grades: 12 College Credits: 3 hours**

**Prerequisites: Algebra 1, Geom. and meet TSI requirements**

MATH 1314. College Algebra.

This course covers quadratic equations, graphs, functions, systems of equations,

matrices and determinants, theory of equations, inequalities, ratios and proportions, variations, sequences and series, and the binomial theorem.

**Stats and Business Decision Making**

**Semester(s): 2**  **Credit:** **1**

**Grades: 12 Prerequisites:** **Algebra 2**

Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

**Pre-Calculus Advanced**

**Semester(s): 2 Credit:** **1**

**Grades: 11-12 Prerequisites:** **Algebra 2 & Geometry**

Pre-Calculus is a full year course that is placed between Pre-AP Algebra 2 and Dual Calculus in the curriculum. It will include all topics as outlined in the Texas Essential Knowledge and Skills (TEKS). Students will be able to translate among verbal, numerical, graphical, and symbolic representations of functions, including polynomial, rational, exponential, logarithmic, trigonometric, and piecewise-defined functions. Other topics include sequences and series, conic sections, parametric representations, vectors, and real-world models.

**Statistics- Dual Credit**

**Semester(s): 2 Credit: 1**

**Grades: 11-12 College Credit: 6 hours**

**Prerequisites: Algebra 2 and meet TSI requirements**

MATH 1333. Plane Trigonometry. Elementary Statistics

A survey of basic statistical methods from an elementary standpoint. Topics include distributions, central tendency, variability, inferential procedures for one population; brief introduction to sampling techniques and nonparametric methods.

**Calculus-Dual**

**Semester(s):** **2** **Credit:** **1**

**Grade: 12 College Credit: 6 hours**

**Prerequisite:** **Pre-Calculus Advanced**

Math 2312. Pre Calculus

An intensive overview of topics from algebra, trigonometry, and analytic geometry that are needed for calculus, including equations and inequalities, functions and inverse functions, trigonometric functions and equations.

Math 2313. Calculus I

Differential calculus for functions of one variable including a study of limits, continuity, derivatives of different classes of functions, maxima and minima, concavity, related rates, and optimization problems.

**See flow chart below for math sequence options.**

Business Statistics

Math Models

Geometry

Geometry

Algebra 2

or

PAP Algebra 2

Dual Calculus

or

Dual Algebra

or

Dual Statistics

Dual Algebra

or

Dual Statistics

Pre-Cal Advanced

Pre AP Algebra 2

Pre AP Geometry

8th Grade- Algebra I

Algebra I

8th Grade-

Pre-Algebra

Technical School

Math Models

Algebra I

Business Statistics

Algebra 2

8th Grade-

Pre Algebra

2-Year College

Dual Algebra

8th Grade- Pre Algebra

Algebra I

Pre AP Geometry Geometry

Pre-Cal Advanced

4-year University

**Science Department**

**IPC (Integrated Physics and Chemistry)**

**Semester(s):** **2 Credit: 1**

**Grades: 9 or 10**

This is an introductory level course. In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: motion, waves, energy transformations, properties of matter, changes in matter, and solution chemistry. This course is recommended for students in grades 9 or 10 that do not plan on taking Physics. ***This course must be taken before Chemistry or Physics.***

**Biology**

**Semester(s): 2 Credit:** **1**

**Grades: 9-10**

Biology is designed for students to conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structure and function of cells and viruses; growth and development of organisms, cells, tissues, and organs; nucleic acids and genetics, biological evaluation; taxonomy, metabolism, energy transfer in living organisms; living systems; homeostasis; ecosystems; and plants and their environments.

**Biology PAP**

**Semester(s): 2 Credit:** **1**

**Grades: 9**

PAP Biology is a precursor to Dual Credit Biology. Students will be expected to conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem solving. They will be expected to understand why certain events occur within cells, plants, and within cells, plants, and within the human body. Students will study a variety of topics that include structure and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy, metabolism, energy transfers in living organisms; living systems; homeostasis; and plants and their environment.

**Chemistry**

**Semester(s):** **2** **Credit:** **1**

**Grades: 10-11**

The Chemistry course is designed to enable students to learn chemistry through experimentation and observation rather than rote recall. Introductory topics include mathematic and visual modeling, atomic theory, conservation of mass and energy in reactions, kinetic-molecular theory. Additional topics are atomic structure, periodicity, chemical energy, and stoichiometric. Mathematics skills will be applied as quantitative analyses are required in both laboratory and theoretical experiences. This course is recommended for students in grades 11 or 12 and students in grade 10 that have a strong math background and plan on taking Physics. ***IPC is not a recommended follow-up course.***

**Chemistry PAP**

**Semester(s):** **2** **Credit:** **1**

**Grades: 10 Prerequisites: completion/concurrent enrollment in Algebra 2**

The PAP Chemistry course is designed to enable students to learn chemistry through experimentation and observation rather than rote recall. Introductory topics include mathematic and visual modeling, atomic theory, conservation of mass and energy in reactions, kinetic-molecular theory. Additional topics are atomic structure, periodicity, chemical energy and stoichiometric. Mathematics skills will be applied as quantitative analyses are required in both laboratory and theoretical experiences. This course is recommended for students in grades 10,11, or 12.

**PNT (Principles of Technology) Physics-Honors**

**Semester(s):** **2** **Credit:** **1**

**Grades: 11-12 Prerequisite: Alg. 2**

In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Mathematics skills will be applied as quantitative analyses are required in both laboratory and theoretical experiences. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

**Physics-Advanced**

**Semester(s):** **2** **Credit:** **1**

**Grades: 11-12 Prerequisite: Alg. 2**

This course is a more in-depth and rigorous version of Physics. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Mathematics skills will be applied as quantitative analyses are required in both laboratory and theoretical experiences.

**Anatomy and Physiology-PAP**

**Semester(s):** **2** **Credit:** **1**

**Grades: 11-12 Prerequisite: Bio., Chem.**

Anatomy is the study of the form, or structure of body parts and how these parts relate to one another. Physiology is the study of how the parts of the body work and carry out their life-sustaining activities. This is a laboratory-oriented course in which students investigate the structures and functions of the human body. Emphasis will be placed on laboratory work and class work. The course is designed to build a knowledge base for those students who wish to pursue a medically related career. The primary course objective will be for the students to know the structures and functions of the 12 body systems. This course is recommended for students in grades 11 or 12.

**Anatomy and Physiology- Dual Credit**

**Semester(s):** **2** **Credit:** **1**

**Grades: 11-12 College Credit: 8 hours**

**Prerequisites: Biology, Chemistry, and meet TSI requirements**

BIOL 2401. Anatomy and Physiology I. (3-3)

Structure and function of the human body--cell structure and function, tissues, survey of the structure and functions of the organ systems and a more detailed consideration of the integumentary, skeletal, muscular, and nervous systems.

BIOL 2402. Anatomy and Physiology II. (3-3)

Further study of the structure and function of the human body with a detailed consideration of the endocrine, circulatory, digestive, respiratory, urinary, and reproductive systems. Fluids and electrolytes are also covered. Prerequisite required: BIOL 2401.

**Advanced Animal Science**

**Semester(s): 2 Credit: 1**

**Grades: 11-12**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal 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 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.

**Biology Dual Credit**

**Semester(s):** **2** **Credit:** **1**

**Grades: 11-12 College Credit: 8 hours**

**Prerequisites: Biology, Chemistry, and meet TSI requirements**

Biology 1407 Principles of Biology

An introduction to the unifying principles of biology with emphasis on biological diversity, evolution, and ecology. Laboratory is designed to reinforce lecture topics and develop analytical skills essential to the practice of biology. Recommended as a first semester course of two-course sequence for students majoring in biological sciences or related disciplines. Not intended for non-majors.

Biology 1406 Principles of Biology

An introduction to the unifying principles of biology with emphasis on biological chemistry, energetics and homeostasis, cell structure and function, gene expression, and patterns of inheritance. Laboratory is designed to reinforce lecture topics and develop analytical skills essential to the practice of biology. Recommended as a second semester course of a two-course sequence for students majoring in biological sciences or related disciplines. Not intended for non-majors.

**Chemistry Dual Credit**

**Semester(s):** **2** **Credit:** **1**

**Grades: 11-12 College Credit: 8 hours**

**Prerequisites: Biology, PAP Chemistry, and meet TSI requirements**

Chemistry 1411. General Chemistry I.

General principles, fundamental laws, concepts, and theories of inorganic chemistry. A

foundation course to prepare the student for further work in the sciences.

Chemistry 1412. General Chemistry II

Further exploration of chemical principles. Laboratory emphasis on analytical procedures.

**Environmental Science**

**Semester(s):** **2** **Credit:** **1**

**Grades: 11-12**

Environmental Science is the study of how humans interact with the environment. A major focus of environmental science is solving environmental problems. Major topics include pollution, extinction, population, species interaction, energy, food chains, nutrient cycles, successions, deforestation, adaptation, ecosystems, and bio-diversity. The primary objective for this course is to understand the importance of the environment and how living organisms affect that environment. Emphasis will be placed on class work, problem solving, projects and laboratory work including water quality monitoring as part of the Texas Watch program in conjunction with TXU and the Brazos River Authority.

**Forensic Science**

**Semesters: 2 Credit(s): 1**

**Grade: 11-12**

**Prerequisites: Biology, Chemistry and Principles of Law/Public Safety (Recommended)**

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

**Science Sequence Options**

**Social Studies Department** 

**World Geography**

**Semester(s): 2 Credit:** **1**

**Grade: 9**

In World Geography Studies, 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. 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 world population; relationships among people, places, and environments; and the concept of region.

**World/Human Geography AP**

**Semester(s): 2 Credit:** **1**

**Grade: 9**

This course is a more in-depth and rigorous version of World Geography. Along with the requirements for world geography, students will be introduced 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 human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

**World History**

**Semester(s): 2 Credit:** **1**

**Grade: 10**

This course will present an overview of world history from the early civilizations through the modern world. It will focus on the cultures, developments, and individuals that create history. Particular emphasis will be on the study of Greco-Roman culture, the rise and influence of Christendom, the world of Medieval Europe, religion and culture of Asia, the Renaissance and Reformation, Enlightenment and Colonialism, the French Revolution and revolutions of the 19th Century, the rise of dictatorships and World War, and the modern world. In addition, emphasis will be placed on a study of individuals who influenced these events, including major scientific and philosophical movements.

**World History AP**

**Semester(s): 2 Credit: 1**

**Grade: 10 Requirements: AP exam in May**

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. Focused primarily on the past thousand years of the global experience, the course builds on an understanding of cultural, institutional, technological precedents that, along with geography, set the human stage prior to 1000 C.E. Periodization, explicitly discussed, forms the organizing principle for dealing with change and continuity from that point to the present.

**World History (Western Civilization)-Dual**

**Semester(s): 2 Credit: 1**

**Grade: 10-12 College Credit: 6 Hours**

**Prerequisites:** **Meet TSI requirements**

Western Civilization focuses on developing students’ abilities to think conceptually about Western civilization from 1660 to the present, with emphasis on the background of present-day political, economic, and social issues. Students will be required to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.

HIST 2311

Western civilization before 1660. A study of the antecedents of modern institutions, including the political history of the period.

HIST 2312

Western civilization from 1660 to the present, with emphasis on the background of present-day political, economic, and social issues.

**US History**

**Semester(s): 2 Credit: 1**

**Grade: 11**

US History is a survey course, which covers the period from the Reconstruction following the Civil War to present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and the post-Cold War eras, and reform movements, including civil rights.

**US History-Dual Credit**

**Semester(s): 2 Credit: 1**

**Grade: 11 College Credits: 6 hours**

**Prerequisites:** **Meet TSI requirements**

HIST 1301- History of the United States to 1877: Students will study a survey of the history of the United States from its European background through the Reconstruction era. Emphasis will be on colonization, the War of Independence, the Jefferson and Jackson Ages, Westward expansion and the frontier, events leading to and including the Civil War, and the period of Reconstruction up to 1877.

HIST 1302- History of the United States from 1877: Students will study a survey of the United States from 1877 to present, starting with post-Reconstruction, industrial growth, social changes and reforms, and the role of the US during the 20th century including wars, political trends, international commitments, and leadership. All aspects of history are considered, including social, political, economic, and military.

**Economics**

**Semester(s): 1 Credit: .5**

**Grade: 12**

Economics, with an emphasis on the free enterprise system and its benefits, focuses on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world.

**Economics-AP**

**Semester(s): 1 Credit: .5**

**Grade: 12**

AP Economics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students’ familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

**US Government**

**Semester(s): 1 Credit: .5**

**Grade: 12**

US Government focuses 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.

**US Government AP**

**Semester(s): 1 Credit: .5**

**Grade: 12**

Covers the origin and development of constitutional democracy in contrast with other governmental organizations; the federal system, the individual voter, political parties and pressure groups, It includes an analysis of the executive, legislative, and judicial branches of the government in relation to foreign relations, national defense, finance, business, commerce, conversation, labor, and welfare.

**Physical Education Department**

**Physical Education 1-4**

**Semester(s): 2 Credit:** **1-4 (1 credit per year)**

**Grades: 9-12**

The Physical Education program develops knowledge and skills basic to proficient participation in physical education activities, which include individual, dual, and team sports. The core curriculum includes the following essential elements: knowledge and motor skills basic to proficient participation in physical recreation activities; motivation and development of a high level of knowledge and fitness and the ability to maintain this level, and knowledge and skills for leisure and lifetime sports activities. The students will develop and practice the behavior of good sportsmanship and participate in daily fitness and conditioning.

**Boys Athletics 1-4**

**Semester(s): 1-2 Credit: .5 - 4 (1 credit per year)**

Designed for students that are going to participate in the following sports: ***baseball, basketball, football.***  You are not required to be in athletics to participate in cross country, golf, power lifting, tennis, or track. If you are not playing a required sport for athletics, you need to get approval from the athletic director or a coach to remain in athletics.

**Girls Athletics 1-4**

**Semester(s): 1-2 Credit: .5 - 4 (1 credit per year)**

Designed for students that are going to participate in the following sports: ***basketball, softball, and volleyball***. You are not required to be in athletics to participate in golf, tennis, track or powerlifting. If you are not playing a required sport for athletics, you need to get approval from the athletic director or a coach to remain in athletics.

**Color Guard Class 1-4**

**Semesters: 2**

**Grade Level: 9-12 Credit: 1**

**Prerequisite: Audition required or previous member of the middle school cadets**

The course will meet the same as the marching band. Students in this class will be the color guard for the marching band. Performances at pep rallies, football games, marching contests, and winter guard competitions will be required. Winter guard starts at the end of marching season and continues during the spring semester. The winter guard performs at winter/spring competitions. There will also be extra rehearsal outside of the class time. Try-outs will be held in late spring for the next school year. Up to two Fall semesters of Color Guard my substitute the required P.E. credit.

**Band 1-4**

**Semester(s):** **2** **Credit:** **1**

**Prerequisite: Junior High band**

Students will have the opportunity to improve skills on a musical instrument through daily rehearsal, individual and small ensemble, and large group performance and competition. Students will be exposed to a wide variety of musical style, history, and theory. Band students will have the opportunity to make critical listening decisions through daily ear training. Physical skills and cooperation will be enhanced through marching band. Participation in extra rehearsals and performances outside of the regular class day is required.

**Foreign Language Department**

**Spanish 1**

**Semester(s): 2 Credit: 1**

**Grades: 8-11**

Spanish 1 is centered on the fundamentals of Spanish. Focuses include the acquisition of language functions, vocabulary, structures, and culture through contextualized presentations and interactive activities.

**Spanish 2**

**Semester(s): 2 Credit: 1**

**Grades: 9-12**

**Prerequisite: Spanish 1**

Spanish 2 continues the language study begun in Spanish 1. Students build on the skill base acquired in Spanish 1 and become more proficient in reading, writing, listening, viewing, showing, and oral communications. Communications skills are the primary focus of language acquisition.

**Spanish 3/4 Dual-online course**

**Semester(s): 2 Credit: 1**

**Grades: 11-12 Prerequisite: Spanish 2/3**

This course provides students with instruction in terminology that prepares students to communicate in Spanish in a professional, business, or industry setting. Students will learn how to communicate in the target language and use culturally appropriate language when addressing diverse audiences in different workplace environments.

**Fine Arts Department**

**Art 1**

**Semester(s): 2** **Credit:** **1**

The Art 1 course involves four basic strands, which are Perception, Expression, Historical, and Evaluation. In the Perception Strand, students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity to surroundings, memory, imagination and life experiences, as a source for creating artworks. In the Expression Strand, students express their thoughts and ideas creatively, while challenging their imaginations, fostering reflective thinking and developing disciplined effort and problem-solving skills. In the Historical Strand, students develop respect for the traditions and contributions of diverse cultures by analyzing artistic styles and historical periods. In the Evaluation Strand, students respond to and analyze artworks, thus contributing to the development of lifelong skills of making informed judgements and evaluations.

**Art 2**

**Semester(s):** **2** **Credit:** **1**

**Prerequisite:** **Art 1 and permission from Art teacher**

Art 2 involves the same four basic strands as Art 1. Art 2 follows the same basic course work as Art 1, but requires a smaller number of projects so that more time can be used for deeper exploration of each project.

**Art 3**

**Semester(s):** **2** **Credit:** **1**

**Prerequisite:** **Art 1 and 2 and permission from Art teacher**

Art 3 offers continued study and expression of the four basic strands as described in Art1. The Art 3 student will also be allowed deeper exploration within an art specialty such as drawing, painting, sculpture, etc.

**Art 4**

**Semester(s): 2** **Credit:** **1**

**Prerequisite:** **Art 1, 2, 3 and permission from Art teacher**

Art 4 offers continued study and expression of the four basic strands.

**Choir 1-4**

**Semester(s):** **2** **Credit:** **1**

**Prerequisite: Junior High Choir recommended**

Choral Music will focus on four basic strands – perception, creative expression/performance, historical and cultural heritage, and critical evaluation- provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. In music, students develop their intellect and refine their emotions, understanding the cultural and creative nature of musical artistry and making connections among music, the other arts, technology, and other aspects of social life. Through creative performance, students apply the expressive technical skills of music and critical-thinking skills to evaluate multiple forms of problem solving.

**Band 1-4**

**Semester(s):** **2** **Credit:** **1**

**Prerequisite: Junior High band**

Students will have the opportunity to improve skills on a musical instrument through daily rehearsal, individual and small ensemble, and large group performance and competition. Students will be exposed to a wide variety of musical style, history, and theory. Band students will have the opportunity to make critical listening decisions through daily ear training. Physical skills and cooperation will be enhanced through marching band. Participation in extra rehearsals and performances outside of the regular class day is required.

**Applied Music**

**Semesters: 2**

**Grade Level: 9-12 Credit: 1**

**Prerequisite: Concurrent enrollment in a Band coursers and teacher approval**

This class is designed for those students with a need for a deeper knowledge of instrumental music. This course is designed to cater specifically to individual student needs. The course covers a wide range of topics including, but not limited to: individual performance, introduction to music theory, and small ensemble playing. Students from all abilities and band classes are encouraged to join. This class can only be taken in conjunction with a current Band course.

**Music Theory I**

**Semesters: 2**

**Grade Level: 9-12 Credit: 1**

**Prerequisite: None**

A study of basic music theory designed to train students to read and understand the language of music. Concepts taught in the course include music fundamentals (staff notation, note and rest values, time and key signatures, etc.), simple harmony, ear training, and elementary composition. Students must have equivalent prior music background approved by the teacher.

**Music Production/Music Technology I**

**Semesters: 2**

**Grade Level: 10-12 Credit: 1**

**Prerequisite: None (Director approval)**

A class designed to provide a broad overview of the music technology field. This course is an introduction to basic music and keyboarding fundamentals. Students will lear to use the computer to create their musical create their own work. The will be introduced to the sound and recording industries. The students will explore their musical creativity through the use of computers, electronic pianos, mixers, burners, scanners, cameras, and more.

**Color Guard Class 1-4**

**Semesters: 2**

**Grade Level: 9-12 Credit: 1**

**Prerequisite: Audition required or previous member of the middle school cadets**

The course will meet the same as the marching band. Students in this class will be the color guard for the marching band. Performances at pep rallies, football games, marching contests, and winter guard competitions will be required. Winter guard starts at the end of marching season and continues during the spring semester. The winter guard performs at winter/spring competitions. There will also be extra rehearsal outside of the class time. Try-outs will be held in late spring for the next school year. Up to two Fall semester of Color Guard my substitute the required P.E. credit.

**Theatre 1-4**

**Semester(s): 2 Credit: 1**

Student may fulfill fine arts and elective requirements for graduation by successfully completing one of the following theatre courses: Theatre 1 – One Credit (Which must be completed prior to the other Theatre Courses. Theatre 2, 3, or 4.The Theatre Courses are made up of four basic strands – perception, creative expression/performance, historical and cultural heritage and critical evaluation. These strands provide broad, unifying structures for organizing knowledge and skills students are expected to acquire. Through perceptual studies, students increase their understanding of self and others and develop clear ideas about the world. Through a variety of theatrical experiences, students communicate in a dramatic form, make artistic choices, solve problems, build positive self-concepts, and relate interpersonally.

**Technical Theatre 1-4**

**Semester(s) 2 Credit: 1**

Technical theater is a course for students that focus on the technical aspects rather than performance aspects. This course includes: set construction and design, lighting, sound, history and art concept, drafting, modeling and prop creation. The class spends a large percentage of their time hands on building sets and preparing the theatre for performances.

**Art Media Communication**

**General Requirements:**  **9-12 Credit: 1**

Students will be expected to develop a strong foundation in computer and technology applications. Creativity and design, acceptance, leadership, and choice control will be explored through images, posters, videos and more. The course will develop a proficiency in oral and written communications. Knowledge, skills and educational requirements for career opportunities will be stressed. This course will cover basic Photoshop, iMovie, GIMP, Sketchbook and presentation software.

**Agriculture Department**

*Agriculture*

**Principles of Agricultural Food and Natural Resources**

**Semester(s): 2 Credit: 1**

**Grades: 9-12 (9th grade preferred)**

Prepares students for careers in agriculture, food, and natural resources. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices and expectations. Throughout the year we will delve into the widely diversified field of agriculture covering many topics such as: animal science, vet science, plant science, mechanical science, natural resources, biotechnology, agri-business, and many other areas with an emphasis on career exploration. FFA is an integral part of the agricultural education program, basic FFA knowledge and its opportunities will be integrated throughout the year.  Skills learned through the FFA and classroom/laboratory instruction will be utilized for creating a Supervised Agricultural Experience (SAE) project for each individual student to complete the “3 Circle Model”.

**Landscape Design**

**Semester(s): 1 Credit: .5**

**Grades: 9-12 (10th grade preferred) Prerequisite: Principles of AG**

Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems 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.

**Turf Grass Management**

**Semester(s): 1 Credit: .5**

**Grades: 9-12 (10th grade preferred) Prerequisite: Landscape Design**

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems 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.

**Horticulture**

**Semester(s): 1 Credit: 1**

**Grades: 9-12 (10th grade preferred) Prerequisite: Principles of AG**

Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. To prepare for careers in horticultural systems, students must 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.

**Greenhouse Operation and Production**

**Semester(s): 2 Credit: 1**

**Grades: 11-12 Prerequisite: AG 200, Landscape Des. or Hort.**

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production

techniques and practices. To prepare for careers in horticultural systems, students must attain academic

skills and knowledge, acquire technical knowledge and skills related to horticultural systems 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.

**AG Wildlife, Fisheries, and Ecology Management**

**Semester(s): 2 Credit: 1**

**Grades: 9-12 (10th grade preferred) Prerequisite: Principles of AG**

To be prepared for career in natural resources systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, 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 in a variety of settings. This course examines the management of game and non-game wildlife species, fish and their ecological needs as related to current agricultural practices. Students will use knowledge gained throughout this course to contribute to the Wildlife CDE competitions in the spring each year.

**Advanced Animal Science**

**Semester(s): 2 Credit: 1**

**Grades: 11th-12th (11th grade preferred) Prerequisite: AG Wildlife**

This course is offered to meet the needs of students who want to advance their education in animal science. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Students will apply knowledge of anatomy and physiology to produce and/or manage animals in a domesticated or natural environment and gain knowledge in species specific operations, genetics, livestock operation, processing and reproduction. Algebra, trigonometry, biology, English and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises and field trips. This class is reinforced through the FFA and SAE activities such as the Livestock Career Development Event and Proficiency Awards. Each student will be expected to complete a Supervised Agricultural Experience (SAE).

**Livestock Production**

**Semester(s): 2 Credit: 1**

**Grades: 12th Prerequisite: AG Wildlife/ AG Animal Science**

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems 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 in a variety of settings.

*Architecture and Construction*

**Principles of Construction**

**Semester(s): 2 Credit: 1**

**Grades: 10th-12th Prerequisite: Principles of AG**

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

**Principles of Architecture**

**Semester(s): 2 Credit: 1**

**Grades: 10th-12th Prerequisite: Principles of AG**

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

**Architectural Design I**

**Semester(s): 2 Credit: 1**

**Grades: 11th-12th Prerequisite: Principles of Construction**

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

**Architectural Design II**

**Semester(s): 2 Credit: 2**

**Grades: 11th-12th Prerequisite: Architectural Design I**

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

*Manufacturing*

**Agricultural Mechanics and Metal Technologies**

**Semester(s): 2 Credit: 1**

**Grades: 10-12 (10th grade preferred) Prerequisite: AG Principles**

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 and understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal techniques.

**Agricultural Fabrication I (Agricultural Structures Design and Fabrication)**

**Semester(s): 2 Credit: 1**

**Grades: 11th-12th (11th grade preferred) Prerequisite: AG Mechanics**

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

**Agricultural Fabrication II (Agricultural Equipment Design and Fabrication**)

**Semester(s): 2 Credit: 1**

**Grades: 11th-12th (11th grade preferred) Prerequisite: AG FAB I**

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

**Welding I -Dual Credit**

**Semester(s): 2 Credits: 2 (2 periods)**

**Grades: 11-12 Prerequisite: AG Mechanics**

Note: Student will be required to complete a Hill College application.

WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW). An introduction to the shielded metal arc welding process. Emphasis is placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welding in various positions.

WLDG 1457. Intermediate Shielded Metal Arc Welding (SMAW). A study of the production of various fillet and groove welds. Preparation of specimens testing in all positions. Prerequisite: WLDG 1428 or concurrent enrollment or consent of the instructor.

**Welding II Dual Credit**

**Semester(s): 2 Credits: 2 (2 periods)**

**Grade: 12 Prerequisite: Welding I-Dual**

WLDG 1435. Introduction to Pipe Welding. An introduction to welding of pipe using the shielded metal arc welding process, including electrode selection, equipment setup, and safe shop practices. Emphasis on welding positions 1G and 2G using various electrodes. Prerequisite: WLDG 1457 or concurrent enrollment or consent of the instructor.

WLDG 2406. Intermediate Pipe Welding. A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Position of welds will be 1G, 2G, 5G, and 6G using various electrodes. Topics covered include electrode selection, equipment setup, and safe shop practices. Prerequisite: WLDG 1435 or concurrent enrollment or consent of the instructor.

*Transportation*

**Automotive Basics**

**Semester(s): 2 Credit: 1**

**Grades: 9-12**

This introductory course is a cluster course designed to provide a broad basic understanding of career opportunities and training requirements in addition to introducing students to skills in the six transportation related service careers: aircraft mechanics, auto body and collision repair, automotive technology, diesel engine mechanics, small engine repair, and mechanics.

**Automotive Technology 1**

**Semester(s): 2 Credit: 2 (2 periods)**

**Grades: 11th-12th grade Prerequisite: Auto Basics**

Automotive Technology is an introduction to auto mechanics. Students learn about employability characteristics, understand requirements of automotive services, comprehend the functions and applications of various tools, and apply concepts and skills of the trade in simulated and actual work situations. Students are afforded an opportunity for hands-on learning experiences. This course meets for two consecutive class periods over the course of the entire academic year.

**Automotive Technology 2**

**Semester(s): 2 Credit: 2 (2 periods)**

**Grades: 11-12 Prerequisite: Auto Tech 1**

Advanced Automotive Technology is continued study in the automotive field. Students expand their knowledge about employability characteristics, requirements of automotive services, functions and applications of various tools, and concepts and skills of the trade in simulated and actual work situations. Students are afforded an opportunity for hands-on learning experiences. This course is three periods long and meets during both semesters.

**Automotive - Dual 1**

**Semester(s): 2 Credit: 3 (3 periods)**

**Grades: 11-12**

Students will travel to Hill College in Cleburne to take two courses at Hill College each semester.

AUMT 1407. Automotive Electrical Systems. An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of batteries, charging and starting systems, and electrical accessories. Emphasis on electrical schematic diagrams and service manuals. May be taught manufacturer specific.

AUMT 2421. Automotive Electrical Diagnosis & Repair. Repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques. May be taught manufacturer specific

AUMT 1410. Automotive Brake Systems. Operation and repair of drum/disc type brake systems. Emphasis on safe use of modern equipment. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught with manufacturer specific instructions.

AUMT 1416. Automotive Suspension and Steering System. A study of automotive suspension and steering systems including tire and wheel problem diagnosis, component repair, and alignment procedures. May be taught manufacturer specific.

**Automotive - Dual 2**

**Semester(s): 2 Credit: 3 (3 periods)**

**Grades: 11-12 Prerequisite: Dual Auto 1**

Students will travel to Hill College in Cleburne to take two courses at Hill College each semester.

AUMT 2413. Automotive Drive Train and Axles. A study of automotive clutches, clutch operation devices, manual transmissions/ transaxles, and differentials with emphasis on the diagnosis and repair of transmissions/transaxles and drive lines. May be taught with manufacturer specific instructions.

AUMT 1419. Automotive Engine Repair. Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, disassembly, repair, and reassembly of the engine. May be taught manufacturer specific.

AUMT 2417. Automotive Engine Performance Analysis I. Theory, operation, diagnosis, and repair of basic engine dynamics, ignition systems, and fuel delivery systems. Use of basic engine performance diagnostic equipment. May be taught with manufacturer specific instructions. Prerequisite: AUMT 1407.

AUMT 2434. Automotive Engine Performance Analysis II. A study of diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems; and proper use 7 of advanced engine performance diagnostic equipment. May be taught manufacturer specific. Prerequisite: AUMT 1407.

**Other Electives**

*Arts, Audio Video Technology & Communications*

**Principles of Arts, Audio/Video Technology and Communication**

**Semester(s): 2 Credit: 1**

**Grades: 9-12**

Students will be expected to develop a strong foundation in computer and technology applications. The course will also develop a proficiency in oral and written communications. Knowledge, skills and educational requirements for career opportunities will be stressed. This course will cover basic Photoshop, iMovie and presentation software.

**Art Media Communication**

**Semester(s): 2 Credit: 1**

**Grades: 9th-12th (9th preferred) \*Can count for Fine Arts credit**

Students will be designing and creating projects that address customer needs and resolve a problem. Projects will consist of digital graphics, photos, video, animation, and audio. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment.

**Audio/Video Production1, 2**

**Semester(s): 2 Credit: 1**

**Grades10-12**

**Prerequisite: Principles of AAVTC or Art Media**

Video Production is a comprehensive course, centering on producing and editing videos and graphics. The students will produce commercials, videos and graphics for the Tiger Arena.

**After School Hours, students will be required to attend events held in the Tiger Arena.**

**This includes volleyball games, basketball games and special events.**

**Graphic Design Illustration 1**

**Semester(s): 2 Credit: 1**

**Grades: 10th-12th Prerequisite: Art Media or Principles of AAVTC**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

**Graphic Design Illustration 2**

**Semester(s): 2 Credit: 1**

**Grades: 10th-12th Prerequisite: Graphic Design 1**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

*STEM Electives*

**Principles of Applied Engineering**

**Semesters: 2 Credit: 1**

**Grade: 10th-12th Prerequisites: Principles of AAVTC**

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

**Robotics I**

**Semesters: 2 Credit: 1**

**Grade: 10th-12th Prerequisites: Principles of AAVTC**

Students successfully completing this course will learn the engineering design process.  Topics include components of engineering and technology systems, sketching and drafting, safety regulations, technology innovation, importance of teamwork, leadership, work habits, and organizational skills. Students will also investigate the opportunities and career fields related to science, technology, engineering, and mathematics. The course will culminate with a team-based project.

**Engineering Design and Presentation**

**Semester(s): 2 Credit: 1**

**Grades: 11th-12th Required Prerequisite: Robotics and Alg. 1**

Students enrolled in this course will demonstrate knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, drafting, and what is required to gain and maintain employment in these areas.

**AP Computer Science**

**Semesters: 2 Credit: 1**

**Grade: 10th-12th Prerequisites: Robotics and Alg. 1**

Computer Science will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

**AP Computer Science II**

**Semesters: 2 Credit: 1**

**Grade: 11th-12th Prerequisites: PAP Computer Science and Alg. 2**

Introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data, approaches to processing data (algorithms), analysis of potential solutions and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large complex problems

***Hospitality & Tourism***

**Intro to Culinary Arts**

**Semester(s): 2 Credit: 1**

**Grades: 10-12 Prerequisite: Princ. Of Human Services**

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**Culinary Arts**

**Semester(s): 2 Credit: 2 (2 periods)**

**Grades: 10-12 Prerequisite: Intro to Culinary Arts**

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. Students can pursue and national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**Advanced Culinary Arts**

**Semester(s): 2 Credit: 2 (2 periods)**

**Grades: 10-12 Prerequisite: Intro to Culinary Arts**

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by infusing high-level, industry driven content to prepare students for success in higher education, certifications and/or immediate employment

***Human Services***

**Principles of Human Services**

**Semester(s): 1 Credit: 1**

**Grades: 9th-12th**

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**Cosmetology 1-Dual**

**Semester(s): 1 Credit: 3 (3 periods)**

**Grades: 11-12 College Credits: 16 hours**

**Prerequisite: Principles of Human Service**

Note: Student will be required to complete a Hill College application. Student will leave the high school campus after 5th period and go to the Cleburne College campus. Student will remain on the Hill College campus until 5:00 pm Monday-Friday.

**Cosmetology 2 Dual**

**Semester(s): 1 Credit: 3 (3 periods)**

**Grades: 11-12 College Credits: 16 hours**

**Prerequisite: Cosmetology 1**

Note: Student will be required to complete a Hill College application. Student will leave the high school campus after 5th period and go to the Cleburne Hill College campus. Student will remain on the Hill College campus until 5:00 pm Monday-Friday.

***Law and Public Safety***

**Principles of Law/Public Safety**

**Semester(s): 1 Credit: 1**

**Grades: 10th-12th**

Introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

**Correctional Services**

**Semester(s): 1 Credit: 1**

**Grades: 11th-12th Prerequisite: Principles of Law**

Students prepare for certification required for employment as a correctional officer. The student will learn the role and responsibilities of a correctional officer; discuss relevant rules, regulations, and laws; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the correctional setting. The student will analyze rehabilitation and alternatives to institutionalization.

**Forensic Science**

**Semester(s): 1 Credit: 1**

**Grades: 12th Prerequisite: Bio., Chem., and Correctional Services**

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

***Education in Training***

**Human Growth and Development**

**Semester(s): 1 Credit: 1**

**Grades: 9th-12th Prerequisite: Principles of Human Services**

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

**PIE: Instructional Practices in Education and Training 1 and 2**

**Semester(s): 2 Credit: 2 (2 periods)**

**Grades: 11-12 Prerequisite: Human Growth and Development**

Instructional Practices in Education and Training offers a field-based internship working under the joint direction and supervision of both a family and consumer science teacher and an elementary, intermediate, or Jr. High educator. This course enhances Glen Rose High School Students’ attitude of social responsibility toward others and develops a personal sense of belonging, self-worth and confidence positive attitude towards self, others, school, and community, ability and appreciation for helping others, and enhance the learning environment by providing more approaches that involve students in the learning process. They will work in direct instructional roles with their younger peers. This course will provide students a back ground knowledge of child and adolescent development principles and effective teaching practices.

Note: Students must sign a contract. They will be removed from class if they miss over ten days in one semester, get more than one ISS, or break the rules in signed contract.

***Health Science***

**Principles of Health Science (HST 1)**

**Semester(s): 2 Credit: 1**

**Grade 10-12**

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. This one year course also counts as a health credit.

**Health Science Theory + Clinical (HST 2)**

**Semester(s): 2 Credit: 2 (2 periods)**

**Grade 11-12 Prerequisites:** **Principles of Health Science**

Health Science is offered through the Career & Technology Department for students interested in the health care industry. Students observe and gain knowledge in a variety of health care occupations. Students rotate through a series of healthcare occupations, such as veterinarians’ offices, doctors’ offices and a variety of hospital departments.

Note: Glen Rose Medical Center (GRMC) will conduct an orientation class, TB skin test required by GRMC. A drug test within last six months with a negative result is required. Students will need navy blue scrubs to wear to rotations, school will provide transport.

**Practicum in Health Science (HST 3)**

**Semester(s): 2 Credit: 2 (2 periods)**

**Grade 12 Prerequisites:** **Health Science Theory** The

The Health Science Practicum course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. Student will use an online program to receive their CNA or EMT certification.

***Business, Finance and Marketing***

**Principles of Business, Finance and Marketing**

**Semester(s): 2 Credit: 1**

**Grades: 9th-12th**

Is a course designed for students to gain business skills with knowledge in private enterprise systems, the impact of global business, marketing of goods and services, advertising, and business ethics. Financial management and career investigation and planning will also be explored.

**Business Information Management 1 (BIM)**

**Semester (s): 2 Credit: 1**

**Grades: 9-12**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database and make an electronic presentation using appropriate software.

**Advertising**

**Semester(s): 1 Credit: .5**

**Grades: 11th-12th Prerequisite: Princ. of Business, Marketing, Fin.**

 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.

**Social Media Marketing**

**Semester(s): 1 Credit: .5**

**Grades: 11th-12th Prerequisite: BIM or Principles or Business**

Social Media Marketing is designed to look at the rise of social media and how it has transformed the business arena. Students will learn about the multi-disciplinary implications and how to manage a successful social media presence for an organization.

**Human Resource Management**

**Semester(s): 1 Credit: .5**

**Grades: 11th-12th Prerequisite: BIM or Principles or Business**

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of human resources in order to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, financial, ethical, and international dimensions of business to make appropriate human resources decisions.

**Global Business**

**Semester(s): 1 Credit: .5**

**Grades: 11th-12th Prerequisite: BIM or Principles or Business**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce and postsecondary education. Students apply technical skills to address global business applications of emerging technologies. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment.

**Additional Electives**

**Journalism**

**General Requirements:**  **9-12 Credit: 1**

**Prerequisite: Application required Prerequisite to yearbook.**

Students enrolled in this course are expected to plan, draft, and complete written compositions on a regular basis, carefully examining their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English. Students will become analytical consumers of media and technology to enhance their communication skills.

**Advanced Journalism/Yearbook 1-3**

**General Requirements:**  **10-12 Credit: 1**

**Prerequisite: Journalism**

Students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Advanced Journalism: Yearbook I, II, III/Newspaper I, II, III/Literary Magazine, students are expected to become analytical consumers of media and technology to enhance their communication skills.

**Public Speaking-Advanced**

**Semester: 2 Credit: 1**

**Grades: 9th-12th**

Students must learn the concepts and skills related to preparing and presenting public messages and to analyzing and evaluating the messages of others. Within this process, students will gain skills in reading, writing, speaking, listening, and thinking and will examine areas such as invention, organization, style, memory, and delivery.

**Debate-Dual**

**Semester(s): 1 Credit: 1**

**Grades: 10th-12th College Credits: 6 hours**

**Prerequisites: Meet TSI requirements This class will include dual speech credit.**

Comm. 1315-Speech

Planning, organizing, and delivering of general platform speeches and speeches for special occasions.

Speech 2335-Debate I

Principles of argument and debate. Practice in preparing written and spoken arguments, with emphasis on principles of critical thinking.

**Debate 2 Advanced**

**Semester(s): 1 Credit: 1**

**Grades: 11-12 Prerequisites: Debate 1**

Principles of argument and debate. Practice in preparing written and spoken arguments, with emphasis on principles of critical thinking.

**Debate 3 Advanced**

**Semester(s): 1 Credit: 1**

**Grades: 11-12 Prerequisites: Debate 2 Advanced**

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.

**Hill College Online Dual Credit Electives**

**Music Appreciation-Dual (online course)**

**Semester(s): 1** **Credit:** **.5**

**Grades: 11-12 College Credit: 3 hours**

**Prerequisites: Meet TSI requirements**

MUSI 1306. Music Appreciation.

A course for non-music majors designed to acquaint the student with an overall survey of music literature. Open to all students and designed to increase awareness and appreciation of the art of music through live and recorded performances.

**Medical Terminology-Dual (online course)**

**Semester(s): 1 Credit: .5**

**Grade 11th-12th College Credits: 3 hours**

**Prerequisites: Meet TSI requirements**

HITT 1305. Medical Terminology.

A study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures.

**Art Appreciation-Dual (online course)**

**Semester(s): 1 Credit: .5**

**Grade 11th-12th**

ARTS 1301. Art Appreciation.

Study of different types of visual art, focusing on the roles of art and artists in society throughout history. Topics include the elements and principles of art, an introduction to the different media, and critical evaluation.

**Psychology-Dual (online course)**

**Semester(s): 1 Credit: .5**

**Grade 11th-12th**

PSYC 2301. General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

**Arts and Humanities Endorsement**

**List of Arts and Humanities Endorsement Courses**

|  |  |
| --- | --- |
| **Career Clusters** | **Courses** |
| **Social Studies** | World Geography |
|  | World/Human Geography AP\* |
|  | World History |
|  | World History AP\* |
|  | World History-Dual Credit |
|  |  |
| **Language other than English** | Spanish 1/2 |
|  | Spanish 3 Dual Credit \* (online) |
|  | Spanish 4 Dual Credit \* (online) |
|  |  |
| **Fine Arts** | Art 1,2\*,3\*,4\* |
|  | Choir 1,2\*,3\*,4\* |
|  | Band 1,2\*,3\*,4\* |
|  | Applied Music1,2\*,3\*,4\* |
|  | Music Theory 1,2\* |
|  | Music Production 1,2\* |
|  | Color Guard 1,2\*,3\*,4\* |
|  | Music Appreciation-Dual Credit (online)\* |
|  | Theater Arts 1,2\*,3\*,4\* |
|  | Technical Theater 1,2\*,3\* |
|  | Art Media Communication 1 |
| **Electives** | Journalism |
|  | Advanced Journalism\* 1-3 |

\*Indicates an Advanced Course

**Arts and Humanities Endorsement Requirements**

|  |  |
| --- | --- |
| **Subject Area** | **Credits** |
| English | 4 |
| Math | 4 |
| Science | 4 |
| Social Studies | 3 |
| Physical Education | 1 |
| LOTE | 2 |
| Fine Arts | 1 |
| Endorsement Electives | 2 or 3 |
| General Electives | 5 or 4 |
| **Total Credits**  | 26 |

**Business and Industry Endorsement**

|  |  |
| --- | --- |
| **Career Clusters** | **Courses** |
| **Agriculture** | Principles of Agriculture, Food, and Natural Resources |
|  | Wildlife, Fisheries and Ecology Management |
|  | Advanced Animal Science\* |
|  | Livestock Production |
|  | Landscape Design |
|  | Turf Grass Management |
|  |  |
| **Architecture and Construction** | Principles of Architecture |
|  | Architectural Design I / Architectural Design II |
|  | Agricultural Power Systems\* |
|  | Agricultural Mechanics and Metal Technologies\* |
|  | Agricultural Facilities Design and Fabrication\*  |
|  |  |
| **Arts, Audio Video Technology & Communications**  | Principles of Arts, Audio Video Technology, and Communication  |
|  | Graphic Design Illustration 1/2 |
|  | Audio Video Production 1, 2\* |
|  | Speech Dual Credit\* |
|  |  |
| **Hospitality and Tourism** | Principles of Human Services |
|  | Intro to Culinary Arts  |
|  | Culinary Arts 1\*  |
|  | Advanced Culinary Arts\* |
|  |  |
| **Manufacturing** | Welding Dual Credit 1\* & 2 \* |
|  |  |
| **Transportation** | Automotive Basics |
|  | Automotive Technology 1 / Automotive Technology 2\* |
|  | Automotive Dual 1\* & 2 \* |
|  |  |
| **Electives** | Principles of Business, Finance, & Marketing |
|  | Business Information Management |
|  | Human Resource Management (.5) / Global Business\* (.5) |
|  | Advertising (.5) / Social Media Marketing\* (.5) |

\*Indicates an Advanced Course

**Business and Industry Endorsement Requirements**

|  |  |
| --- | --- |
| **Subject Area** | **Credits** |
| English | 4 |
| Math | 4 |
| Science | 4 |
| Social Studies | 3 |
| Physical Education | 1 |
| LOTE | 2 |
| Fine Arts | 1 |
| Endorsement Electives | 4 |
| General Electives | 3 |
| **Total Credits**  | 26 |

**Public Services Endorsement**

**List of Public service Endorsement Courses**

|  |  |
| --- | --- |
| **Career Clusters** | **Courses** |
| **Human Services** | Principles of Human Services |
|  | Human Growth and Development |
|  | Cosmetology 1 Dual Credit \* |
|  | Cosmetology 2 Dual Credit \* |
|  |  |
| **Law & Public Safety** | Principles of Law/Public Safety |
|  | Correctional Services \* |
|  | Forensic Science |
|  |  |
| **Education Training** | PIE- Instructional Practices in Education and Training 1\* |
|  | PIE- Instructional Practices in Education and Training 2\* |
|  |  |
| **Health Science** | Principles of Health Science  |
|  | Health Science Theory + Clinical \* |
|  | Practicum in Health Science \* |
|  | Medical Terminology- Dual (.5) (online)\* |
|  | Anatomy & Physiology PAP or Dual Credit\* |

\*Indicates an Advanced Course

**Public Services Endorsement Requirements**

|  |  |
| --- | --- |
| **Subject Area** | **Credits** |
| English | 4 |
| Math | 4 |
| Science | 4 |
| Social Studies | 3 |
| Physical Education | 1 |
| LOTE | 2 |
| Fine Arts | 1 |
| Endorsement Electives | 4 |
| General Electives | 3 |
| **Total Credits**  | 26 |

**Science, Technology, Engineering, and Math Endorsement**

**List of STEM Courses**

|  |  |
| --- | --- |
| **Mathematics** | Algebra 2/ Alg. 2 PAP |
|  | Stats and Business Decision  |
|  | Alg. – Dual Credit |
|  | Pre-Calculus Advanced |
|  | Algebra/Trigonometry Dual Credit |
|  | Algebra/Statistics Dual Credit |
|  | Calculus AP |
|  |  |
| **Science** | Biology PAP |
|  | Chemistry/ Chem. PAP |
|  | Anatomy and Physiology PAP |
|  | Anatomy and Physiology Dual Credit  |
|  | Biology Dual Credit |
|  | Chemistry Dual Credit  |
|  | Environmental Systems |
|  | Advanced Animal Science |
|  | Physics PAP |
|  |  |
| **Electives** | Principles of Applied Engineering |
|  | Robotics  |
|  | Engineer Design and Presentation I |
|  | AP Computer Science |

**Stem Endorsement Requirements**

|  |  |
| --- | --- |
| **Subject Area** | **Credits** |
| English | 4 |
| Math | 4 |
| Science | 4 |
| Social Studies | 3 |
| Physical Education | 1 |
| LOTE | 2 |
| Fine Arts | 1 |
| Endorsement Electives | 1 |
| General Electives | 6 |
| **Total Credits**  | 26 |

Course Sequences for CTE Courses