

**GLEN ROSE HIGH SCHOOL  
COURSE DESCRIPTION  
CATALOG**

**2021-22**



**Glen Rose High School**

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# *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 Honors**

**Semester(s): 2**

**Credit: 1**

**Grade: 9**

English 1 Honors 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 Honors**

**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 Honors 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 Honors, 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**

**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 Dual Credit**

**Semester(s): 2**

**Credit: 1**

**Grade: 11**

**College Credit: 6 hrs**

**Prerequisites: Meet TSI requirements**

English 3 Dual 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.

**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**

The English Language Arts and Reading Texas Essential Knowledge and Skills (TEKS) are organized into the following strands: Reading, where students read and understand a wide variety of literary and informational texts; Writing, where students compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail; Research, where students are expected to know how to locate a range of relevant sources and evaluate, synthesize, and present ideas and information; Listening and Speaking, where students listen and respond to the ideas of others while contributing their own ideas in conversations and in groups; and Oral and Written Conventions, where students learn how to use the oral and written conventions of the English language in speaking and writing. The standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. In English IV, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students should read and write on a daily basis.

## **English 4 Dual Credit-Freshman Level**

**Semester(s): 2**

**Credit: 1**

**Grade: 11**

**College Credit: 6 hrs**

**Prerequisites: Meet TSI requirements**

English 4 Dual 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. 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**

English 4 Dual is a college bound course that affords the senior student the opportunity for an accelerated study and scholastic and personal enrichment in English.

**ENGL 2321. Introduction to British Literature**

A study of diverse works by British writers. Emphasis on reading, comprehending, appreciating, and thinking critically about the selected works within the context of British culture and literary history.

**COMM 1315 Public Speaking (Speech).**

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

## *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 Honors**

**Semester(s): 2**

**Credit: 1**

**Grades: 9-10**

**Prerequisite: Algebra 1**

Geometry Honors is a full year course that is placed between Algebra I and Honors 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.

### **Applied Math**

**Semester(s): 2**

**Credit: 1**

**Grades: 11-12**

**Prerequisites: Algebra 1 & Geometry**

Applied Mathematics for Technical Professionals uses problem-solving situations, hands-on activities, and technology to extend mathematical thinking and engage student reasoning. Situations relating to technical applications provide students opportunities to make connections with mathematics and the workplace. In addition, students will learn the skills necessary to communicate using mathematics. Hands-on activities will allow students to model, explore, and develop abstract concepts applicable to technical careers. (Essential to this course is the partnership between mathematics and technical teachers.)

## **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 Honors**

**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 plan to 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.

## **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 Algebra 2 Honors 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): 1**

**Credit: .5**

**Grades: 11-12**

**College Credit: 6 hours**

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

MATH 1342 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.

Prerequisite: Completion of Mathematics Texas Success Initiative (TSI) requirements



**Calculus-Dual**

**Semester(s): 2**

**Grade: 12**

**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.

**Credit: 1**

**College Credit: 6 hours**

## *Science Department*

### **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 Honors**

**Semester(s): 2**

**Credit: 1**

**Grades: 9**

Honors 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.

### **IPC (Integrated Physics and Chemistry)**

**Semester(s): 2**

**Credit: 1**

**Grades: 10-11**

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.***

### **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 Honors**

**Semester(s): 2**

**Credit: 1**

**Grades: 10**

**Prerequisites: Biology and Alg. 1**

The Honors 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.

## **Third and Fourth Year Science Options**

### **PNT (Principles of Technology) Physics**

**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-Honors**

**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.

### **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.

### **Biology Dual Credit**

**Semester(s): 2**

**Credit: 1**

**Grades: 11-12**

**College Credit: 8 hours**

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

#### **Biology 1306 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. Students must register for Biology 1106 concurrently. 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.

#### **Biology 1307 Principles of Biology II**

An introduction to the unifying principles of biology with emphasis on biological diversity, evolution, and ecology. Students must register for Biology 1107 concurrently. Recommended as a first 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 1311. General Chemistry I.**

An introduction to the fundamental laws and theories of chemistry, chemical nomenclature, stoichiometry, atomic structure, chemical bonding, periodic table, chemical equations and reactions, and the properties of heat flow and gases.

#### **Chemistry 1312. General Chemistry II**

This course, which is a continuation of Chemistry 1311, focuses on chemical kinetics, chemical equilibrium, acid-base chemistry, and thermodynamics. Additional topics, such as environmental chemistry, electrochemistry, coordination chemistry, nuclear chemistry, organic chemistry, and/or polymers, may also be introduced.

### **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.

## *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 Geography-Dual Credit**

**Semester(s): 2**

**Credit: 1**

**Grade: 9**

#### **GEOG 2305 Fundamentals of Geography**

Designed to meet the needs of those planning to teach geography in all grades. The course introduces physical, human, and world geography, as well as basic geographical terms and concepts.

### **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 19<sup>th</sup> 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<sup>th</sup>-11<sup>th</sup>**

**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: 10<sup>th</sup>-11<sup>th</sup>**

**College Credits: 6 hours**

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 20<sup>th</sup> 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, cross country, football, golf, power lifting, and track*. 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: *cross country, basketball, softball, track, and volleyball*. You are not required to be in athletics to participate in golf or tennis. 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 semester of Color Guard may 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.

**Special Topics and Culture**

**Semester(s): 2**

**Credit: 1**

**Grades: 9-12**

**Prerequisite: Spanish 1**

Students will demonstrate novice level communication skills acquired in a LOTE level I course, develop a greater understanding of other cultures, make connections to other disciplines, draw comparisons between languages and cultures, and effectively engage in global communities. Students enhance their personal and public lives, and meet the career demands of the 21st century, by gaining insight into other world languages and cultures.

**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 Honors**

**Semester(s): 2**

**Credit: 1**

**Grades: 11-12**

**Prerequisite: Spanish 2**

Students in Level III are expected to reach a proficiency level of Intermediate Low to Intermediate Mid, as defined in the ACTFL Proficiency Guidelines 2012 and the ACTFL Performance Descriptors for Language Learners.

## *Fine Arts Department*

### **Art Media**

**Semester(s): 2**

**Credit: 1**

**Grades: 9-12**

Art MEDIA is a DIGITAL version of ART ONE, designed to introduce beginners to many genres of art, such as: digital drawing, digital painting, photography, and animation. The first semester is dedicated to the Elements of Art, while the second semester studies the Principles of Art & Design. There is no experience needed for this class, AND you do not have to be “GOOD AT ART” to join! This is a great opportunity to try it out and see how it fits you.

### **Art 1**

**Semester(s): 2**

**Credit: 1**

**Grades: 9-12**

Art ONE is a traditional art class, designed to introduce beginners to many genres of art, such as: drawing, painting, photography, ceramics, fibers, and sculpting. The first semester is dedicated to the Elements of Art, while the second semester studies the Principles of Art & Design. There is no experience needed for this class, AND you do not have to be “GOOD AT ART” to join! This is a great opportunity to try it out and see how it fits you.

### **Art 2**

**Semester(s): 2**

**Credit: 1**

**Grades: 10-12**

**Prerequisite: Art 1 or Art Media**

Art TWO is a two track course- traditional or digital. Students can transition into level two from either a traditional or digital background (Art 1 or Art Media) and continue in either traditional or digital skills. This allows for experienced art students to try both styles in the ease of an Art 2 curriculum. Students will continue building on their foundations in art, while exploring new options, such as print and design, as well as beginning installation and commission work. There is still not a requirement to be “good at art”, just a desire to practice, experiment, and learn new things.

## **Art 2 Intro to Photography**

**Semester(s): 2**

**Credit: 1**

**Grades: 10-12**

**Prerequisite: Art 1 or Art Media**

Art TWO PHOTOGRAPHY is an Intro to Photography course. Students focus on fundamentals of photography composition and design, as well as genre studies in the first semester. The second semester moves quickly to using DSLR cameras and learning technological camera skills, including shooting in Manual Mode and printing student work. Students will continue using Photoshop (introduced in Art Media) and be introduced to Lightroom. This class is a great choice for those who loved Art Media and want to strengthen their skills in creating original works.

\*Cameras are provided for use in class but are not permitted to be checked out in Art 2 Photo.

## **Art 3**

**Semester(s): 2**

**Credit: 1**

**Grades: 11-12**

**Prerequisite: Art 1 and 2**

Art THREE continues in the same style as Art 2 with both traditional and digital choices. The focus of Art 3 is to allow more experiences within all genres of art.

## **Art 3 Honors**

**Semester(s): 2**

**Credit: 1**

**Grades: 11-12**

**Prerequisite: Art 1 and 2**

Honors Art is a level three program, designed to prepare students for AP Art. There is a greater focus on independent projects and investigations.

## **Art 4**

**Semester(s): 2**

**Credit: 1**

**Grades: 11-12**

**Prerequisite: Art 1, 2, 3**

Art FOUR continues in the same style as Art 3 with both traditional and digital choices. The focus of Art 4 is to allow more experiences within all genres of art. This course is for students who enjoy art but are not interested in the rigors of AP Art, and DO NOT have plans to attend an art school or for a career in art.

## **AP Art 4**

**Semester(s): 2**

**Credit: 1**

**Grades: 11-12**

**Prerequisite: Art 1, 2, 3**

AP Art is a level four program, designed to prepare students for collegiate level art courses, art school, or a career in professional art. The year is spent building portfolios in a student's choice of style, including an entry for the AP Art Exam.

### **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 courses 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 learn to use the computer to create their musical work. They 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 may substitute the required P.E. credit.

### **Theatre 1-4**

**Semester(s): 2**

**Credit: 1**

Students 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.

# *Agriculture Department*

## *Agriculture*

### **Principles of Agricultural Food and Natural Resources**

**Semester(s): 2**

**Credit: 1**

**Grades: 9-12 (9<sup>th</sup> 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”.

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

**Semester(s): 2**

**Credit: 1**

**Grades: 9-12 (10<sup>th</sup> 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.

### **Landscape Design**

**Semester(s): 1**

**Credit: .5**

**Grades: 10<sup>th</sup>-12<sup>th</sup> (10<sup>th</sup> 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: 10<sup>th</sup>-12<sup>th</sup> (10<sup>th</sup> grade preferred)**

**Prerequisite: Principles of AG**

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): 2**

**Credit: 1**

**Grades: 10<sup>th</sup>-12<sup>th</sup> (10<sup>th</sup> 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**

**Semester(s): 2**

**Credit: 1**

**Grades: 11<sup>th</sup>-12<sup>th</sup>**

**Prerequisite: Horticulture or Landscape**

**Design/Turf Grass**

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.

### **Livestock Production**

**Semester(s): 2**

**Credit: 1**

**Grades: 11<sup>th</sup>-12<sup>th</sup> (11<sup>th</sup> grade preferred)**

**Prerequisite: AG Wildlife**

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.

### **Advanced Animal Science**

**Semester(s): 2**

**Credit: 1**

**Grades: 11<sup>th</sup>-12<sup>th</sup> (12<sup>th</sup> grade preferred)**

**Prerequisite: AG Livestock Prod.**

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).

## *Architecture and Construction*

### **Agricultural Mechanics and Metal Technologies, Welding**

**Semester(s): 2**

**Credit: 1**

**Grades: 10-12 (10<sup>th</sup> 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**

**Semester(s): 2**

**Credit: 1**

**Grades: 11<sup>th</sup>-12<sup>th</sup> (11<sup>th</sup> grade preferred)**

**Prerequisite: AG Wildlife or AG**

**Mechanics**

Prepares students to be introduced and gain understanding towards the development of agricultural power systems, metal fabrication techniques, agricultural structures, electrical controls, and land and water management systems. This course serves as somewhat of a capstone to upperclassmen where they put together skills learned into culminated projects.

### **Agricultural Fabrication II**

**Semester(s): 2**

**Credit: 1**

**Grades: 11<sup>th</sup>-12<sup>th</sup> (11<sup>th</sup> grade preferred)**

**Prerequisite: AG Fabrication I**

Builds on the knowledge, skills, and certifications students acquire in AG Fab I. Students will develop advanced concepts and skills as related to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

### **Principles of Construction**

**Semester(s): 2**

**Credit: 1**

**Grades: 10-12**

**Prerequisite: Alg. 1**

In Construction Technology, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

### **Architectural Design I**

**Semester(s): 2**

**Credit: 1**

**Grades: 10<sup>th</sup>-12<sup>th</sup>**

**Prerequisite: Alg. 1 and Princ. of Construction**

#### **Construction**

In Architectural Design I, students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design I includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

### **Architectural Design II**

**Semester(s): 2**

**Credit: 2 (2 class periods)**

**Grades: 11<sup>th</sup>-12<sup>th</sup>**

**Prerequisite: Architectural Design I**

In Architectural Design II, students will gain advanced knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design II includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

## *Manufacturing*

### **Welding I -Dual Credit**

**Semester(s): 2**

**Grades: 11-12**

**Credits: 2 (2 periods)**

**Prerequisite: AG Mechanics**

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

### **Welding II Dual Credit**

**Semester(s): 2**

**Grade: 12**

**Credits: 2 (2 periods)**

**Prerequisite: Welding I-Dual**

*Completion of Welding I and Welding II leads to a Certificate of Completion in Basic Arc Welding Skills and qualifies the students to pursue further college training or to seek employment in the field of welding.*

## *Transportation*

### **Automotive Basics**

**Semester(s): 2**

**Grades: 9-12**

**Credit: 1**

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**

**Grades: 11<sup>th</sup>-12<sup>th</sup> grade**

**Credit: 2 (2 periods)**

**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.

### **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.

## *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.

### **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: 10<sup>th</sup>-12<sup>th</sup>**

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

**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: 10<sup>th</sup>-12<sup>th</sup>**

**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: 10<sup>th</sup>-12<sup>th</sup>**

**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**

**Grade: 10<sup>th</sup>-12<sup>th</sup>**

#### **Engineering**

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.

**Credit: 1**

**Prerequisites: Principles of Applied**

### **Robotics II**

**Semesters: 2**

**Grade: 11<sup>th</sup>-12<sup>th</sup>**

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

**Credit: 1**

**Prerequisites: Robotics I**

### **Computer Science Advanced**

**Semesters: 2**

**Grade: 10<sup>th</sup>-12<sup>th</sup>**

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.

**Credit: 1**

**Prerequisites: Robotics and Alg. 1**

### **Video Game Design**

**Semesters: 2**

**Grade: 11<sup>th</sup>-12<sup>th</sup>**

Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design

**Credit: 1**

**Prerequisites: Adv. Computer Science**

## ***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): 2**

**Credit: 1**

**Grades: 9<sup>th</sup>-12<sup>th</sup>**

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.

### **Family and Community Services (Teen Leadership)**

**Semester(s): 2**

**Credit: 1**

**Grades: 11<sup>th</sup> -12<sup>th</sup>**

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

### **Cosmetology 1-Dual**

**Semester(s): 2**

**Credit: 3 (3 periods)**

**Grades: 11<sup>th</sup> -12<sup>th</sup>**

**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 5<sup>th</sup> 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): 2**

**Credit: 3 (3 periods)**

**Grades: 11<sup>th</sup> -12<sup>th</sup>**

**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 5<sup>th</sup> 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): 2**

**Credit: 1**

**Grades: 10<sup>th</sup>-12<sup>th</sup>**

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): 2**

**Credit: 1**

**Grades: 11<sup>th</sup>-12<sup>th</sup>**

**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): 2**

**Credit: 1**

**Grades: 12<sup>th</sup>**

**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): 2**

**Credit: 1**

**Grades: 9<sup>th</sup>-12<sup>th</sup>**

**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<sup>th</sup> -12<sup>th</sup>**

**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 background 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<sup>th</sup>-12<sup>th</sup>**

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**

**Grade 11<sup>th</sup> -12<sup>th</sup>**

**Science**

**Credit: 2 (2 periods)**

**Prerequisites: Principles of Health**

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.

***Business, Finance and Marketing***

**Principles of Business, Finance and Marketing**

**Semester(s): 2**

**Grades: 9<sup>th</sup>-12<sup>th</sup>**

**Credit: 1**

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**

**Grades: 9<sup>th</sup>-12<sup>th</sup>**

**Credit: 1**

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.

### **Sports & Entertainment Marketing**

**Semester(s): 1**

**Grades: 11th-12<sup>th</sup>**

**Business**

Is a course designed to provide students with an understanding of the marketing concepts and theories that apply to sports, sporting events and entertainment. Instructional areas will include: an orientation to the sports and entertainment industry, basic marketing, target marketing, sponsorship, event marketing, career opportunities, pricing, advertising and promotion.

**Credit: .5**

**Prerequisite: BIM or Principles or**

### **Social Media Marketing**

**Semester(s): 1**

**Grades: 11th-12<sup>th</sup>**

**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.

**Credit: .5**

**Prerequisite: BIM or Principles or**

### **Web Technology**

**Semester(s): 2**

**Grades: 11th-12<sup>th</sup>**

**Business**

In Web Technologies, students will learn to make informed decisions and apply the decisions to the field of IT. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

**Credit: 1**

**Prerequisite: BIM or Principles or**

### **Digital Media**

**Semester(s): 2**

**Grades: 11th-12<sup>th</sup>**

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

**Credit: 1**

**Prerequisite: Web Technology**

### **Interior Design I**

**Semester(s): 2**

**Grades: 10<sup>th</sup> -12<sup>th</sup>**

**Marketing, Fin.**

**Credit: 1**

**Prerequisite: Princ. of Business,**

Interior Design I is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability, and compete in industry.

### **Interior Design II**

**Semester(s): 2**

**Grades: 11<sup>th</sup> -12<sup>th</sup>**

**Credit: 1**

**Prerequisite: Interior Design I**

Interior Design II is a technical laboratory course that includes the application of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior design to meet industry standards.

### **Fashion Design I**

**Semester(s): 2**

**Grades: 10<sup>th</sup> -12<sup>th</sup>**

**Technology**

**Credit: 1**

**Prerequisite: Princ. of Arts, Audio, Video**

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical 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 fashion industry with an emphasis on design and construction.

### **Fashion Design II**

**Semester(s): 2**

**Grades: 11<sup>th</sup> -12<sup>th</sup>**

**Credit: 1**

**Prerequisite: Fashion Design I**

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical 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 fashion industry with an emphasis on design and construction.

## *Additional Electives*

### **Journalism**

**Semester(s): 2**

**Credit: 1**

**General Requirements: 9<sup>th</sup>-12<sup>th</sup>**

**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**

**Semester(s): 2**

**Credit: 1**

**General Requirements: 10<sup>th</sup>-12<sup>th</sup>**

**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: 9<sup>th</sup>-12<sup>th</sup>**

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.

### **Speech-Dual**

**Semester(s): 1**

**Credit: .5**

**Grades: 12<sup>th</sup>**

**College Credits: 3 hours**

**Prerequisites: Meet TSI requirements**

Comm. 1315-Speech

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

### **Debate 2 Advanced**

**Semester(s): 2**

**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): 2**

**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.

*Angelo State University Online Dual Credit Electives*

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

**Semester(s): 1**

**Credit: .5**

**Grade 10<sup>th</sup>-12<sup>th</sup>**

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 10<sup>th</sup>-12<sup>th</sup>**

PSYC 2301 General Psychology

Introduction to the scientific study of factors underlying behavior. In addition to the physiological bases of behavior, other factors such as intelligence, learning, motivation, emotion, and perception are covered.

**Government A(Federal) -Dual (online course)**

**Semester(s): 1**

**Credit: .5**

**Grade 12<sup>th</sup>**

GOVT 2305 Federal Government Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.



**Government B (Texas)-Dual (online course)**

**Semester(s): 1**

**Credit: .5**

**Grade 12th**

GOVT 2306 Texas Government (Texas Constitution and Topics)**Origin** and development of the Texas constitution, structure and powers of state and local government, federalism and intergovernmental relations, political participation, the election process, public policy, and the political culture of Texas.