

Venus High School



Course Description Catalog
2017-2018

GRADUATION REQUIREMENTS

How to Use this Guide

This course description guide is provided for the convenience of parents and students in selecting courses for high school. The grade level indicated represents the normal progression of courses. Students may enroll for a course at a different grade level provided the prerequisite has been met.

Graduation Requirements

Students who entered 9th grade in 2014 or are not yet in high school will graduate on the Texas Foundation plan. All entering freshmen will be registered for at least one endorsement in addition to the foundation plan requirements; endorsement may be changed if a new endorsement can be completed. All endorsements and performance acknowledgements will be indicated on a student's transcript.

STAAR EOC Requirements for High School Students

High school students will be required to pass five (5) End of Course (EOC) Assessments. The 5 EOC Assessments are: English I, English II, Algebra I, Biology, and US History.

Graduation Programs

For students entering 9th grade in 2014-2015 or after

Venus High School students will pursue the Foundation High School Program with an Endorsement with Distinguished Achievement. Venus High School endorsements are identified on the next page.

Foundation HS Program		Foundation HS Program with Endorsement(s)		Distinguished Achievement	
Subject Areas	Credits	Subject Areas	Credits	Subject Areas	Credits
English	4	English	4	English	4
Mathematics (including Algebra I, Geometry, and an advanced math course)	3	Mathematics (including Algebra I, Geometry, and two advanced math courses)	4	Mathematics (including Algebra I, Geometry, Algebra II and one advanced math course)	4
Science (Biology, IPC and one advanced science course OR Biology and two advanced science courses)	3	Science (Biology, IPC and two advanced science courses OR Biology and three advanced science courses)	4	Science (Biology, IPC and two advanced science courses OR Biology and three advanced science courses)	4
Social Studies (World Geography, World History, US History, Government and Economics)	4	Social Studies (World Geography, World History, US History, Government and Economics)	4	Social Studies (World Geography or World History, US History, Government and Economics)	4
Physical Education*	1	Physical Education*	1	Physical Education*	1
Languages Other than English	3	Languages Other than English	2	Languages Other than English	2
Fine Arts	1	Fine Arts	1	Fine Arts	1
Electives	3	Electives (including endorsement courses)	6	Electives (including endorsement courses)	6
Total Credits Required	22	Total Credits Required	26	Total Credits Required	26

*Credit for PE courses may be earned through participation in athletics or marching band.

A student must earn the Distinguished Achievement to be eligible for top 10% distinction and automatic college admission.

A student may graduate under the foundation high school program without an endorsement, if, after the student's sophomore year, a committee including the student, the students' parent, and the counselor determine that it is in the best interest of the student to bypass the benefits of graduating with an endorsement.

A student served by an ARD committee may also graduate without an endorsement.

Venus High School Graduation Programs Class of 2018 and Later – Endorsements

Endorsement Areas	
STEM	<p>Student must take the Foundation curriculum including Algebra II, Chemistry and Physics and ONE of the following:</p> <ul style="list-style-type: none"> • One additional math credit for which Algebra II is a prerequisite • One additional science credit • Engineering
Business and Industry	<p>Student must take the Foundation curriculum and a coherent sequence of four credits in ONE of the following programs of study:</p> <ul style="list-style-type: none"> • Agriculture – Animal Science • Agriculture – Ag Mechanical • Business, Marketing & Finance • Arts, Audio/Video Technology & Communication • Informational Technology
Public Services	<p>Students must take the Foundation curriculum and a coherent sequence of four credits in:</p> <ul style="list-style-type: none"> • Family and Consumer Sciences
Arts & Humanities	<p>Students must take the Foundation curriculum and ONE of the following:</p> <ul style="list-style-type: none"> • Psychology/Sociology • Four levels of Spanish • Four consecutive years of one of the following: Band Dance Art Theater Art Theater Production Technical Theater
Multidisciplinary Studies	<p>Students must take the Foundation curriculum and ONE of the following:</p> <ul style="list-style-type: none"> • Four credits in each of the four subject areas to include English IV and Chemistry and Physics • 12 college credit hours with a 3.0 or higher

Venus High School Graduation Programs

Class of 2018 and Later – Performance Acknowledgements

A student may earn a performance acknowledgement for outstanding performance in:

- **Dual Credit courses** – at least 12 college hours with a grade of at least 3.0 on a 4.0 scale.
- **Bilingualism and Biliteracy** – minimum GPA in English courses and satisfying ONE of the following: At least three credits in the same language other than English with at least an 80 average **OR** a student who has exited from English as a Second Language Program and scored Advanced High on the TELPAS.
- **PSAT, ACT, SAT** – must score the following on one of these exams: PSAT/NMSQT score that qualifies a student for recognition as a commended scholar or higher, or recognized as a National Hispanic Scholar or National Achievement Scholar **OR** earning a composite score of 28 on the ACT examination **OR** earning a combined critical reading and mathematics score of at least 1250 on the SAT
- **Nationally or internationally recognized business or industry certificate:** Qualification for an APPROVED federal, state, or industry certification or license related to the student’s program of study. An approved list will be provided by the Texas Education Agency.

The following courses are identified as honors classes as referred to in the Texas Education Code, §33.081 (d)(1), concerning extracurricular activities:

- (1) All College Board advanced placement courses and International Baccalaureate courses in all disciplines;
- (2) English language arts: high school/college concurrent enrollment classes that are included in the “Community College General Academic Course Guide Manual”;
- (3) Languages other than English: high school/college concurrent enrollment classes that are included in the “Community College General Academic Course Guide Manual,” and languages other than English courses Levels IV-VII;
- (4) Mathematics: high school/college concurrent enrollment classes that are included in the “Community College General Academic Course Guide Manual,” and Precalculus;
- (5) Science: high school/college concurrent enrollment classes that are included in the “Community College General Academic Course Guide Manual”; and
- (6) Social Studies: Social Studies Advanced Studies, Economics Advanced Studies, and high school/college concurrent enrollment classes that are included in the “Community College General Academic Course Guide Manual.”
- (7) Other honors courses identified by the district in the subject areas of English language arts, mathematics, science, social studies, economics, or a language other than English and must be identified prior to the semester in which any exemptions related to extracurricular activities occur.

ENGLISH

ENGLISH I and ENGLISH I HONORS

Prerequisite: None

Credits: 1

This course covers grammar, literature, composition, vocabulary development, and spelling. Development of reading skills, writing, and language concepts are stressed. Students focus on literary and informational pieces including plays, novels, and poetry and develop writing skills through multiple compositions.

ENGLISH II AND ENGLISH II HONORS

Prerequisite: English I

Credits: 1

This course introduces a variety of literary forms and continues skill development in language, reading, and composition. Curriculum includes a study of the short story and a grammar review focusing on parts of a sentence, punctuation, usage, sentence structure, and composition. Reading assignments emphasize literary and informational pieces including poetry, novels, and essays. Literary analysis, research skills, and vocabulary development will be stressed.

ENGLISH III

Prerequisite: English II

Credits: 1

This course is a chronological survey of American literature from the beginning of history in the United States through contemporary times. It coordinates literature, composition, grammar, and vocabulary through representative readings from historical documents, essays, dramas, short stories, and novels of significant American writers.

ENGLISH IV

Prerequisite: English III

Credits: 1

This course focuses on language, composition, and British literature. It includes an intensive study of vocabulary, sentence structure, and multi-paragraph compositions. This course provides the critical reading and writing skills necessary for college and the work force.

MATHEMATICS

ALGEBRA I

Prerequisite: 8th Grade Mathematics

Credits: 1

This course will emphasize the study of linear functions. Student will use functions to represent, model, analyze, and interpret relationships in problem situations. Topics include graphing, solving equations and inequalities, and systems of linear equations. Quadratic and nonlinear functions will be introduced.

GEOMETRY AND GEOMETRY HONORS

Prerequisite: Algebra I

Credits: 1

Relations, properties, and measurement of surfaces, lines, and angles in one, two, and three-dimensional figures are investigated and used in this course. It is designed to develop deductive reasoning and to emphasize problem solving using informal proofs and definitions while integration algebraic concepts.

MATHEMATICAL MODELS WITH APPLICATIONS

Preferred Prerequisite: Algebra I, Geometry

Credits: 1

****If taken, this course must be completed before receiving credit for Algebra II**

Students will use a variety of representations (concrete, numerical, graphical, verbal, and tabular) and technology to solve applied problems. Real-life application problems will involve finance, probability, fine arts, and science. Mathematical Models with Applications, if selected, MUST be successfully completed prior to Algebra II.

ALGEBRA II AND ALGEBRA II HONORS

Prerequisite: Algebra I

Recommended Prerequisite: Geometry

Credits: 1

This course is a continuation of the topics studied in Algebra I. It will develop the real number system and will include a study of the complex numbers as a mathematical system. Students will study the ideas of relations and functions and expand the concept of functions to include quadratic, square root, exponential and logarithmic functions, and rational numbers. Emphasis will also be placed on the analysis of conic concepts with labs and the development of additional real life problem solving skills and applications. Students must successfully complete Algebra II prior to taking a higher math class.

PRE-CALCULUS AND PRE-CALCULUS HONORS

Recommended Prerequisite: Algebra I, Geometry, Algebra II

Credits: 1

This course will emphasize the study of polynomial, radical, exponential, logarithmic, and trigonometric functions. Functions, equations, and limits will be used as useful tools for expressing generalizations and as a means for analyzing and understanding a broad variety of mathematical relationships. Functions, as well symbolic reasoning, will be used to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations.

SCIENCE

BIOLOGY AND BIOLOGY HONORS

Prerequisite: None

Credits: 1

Recommended for Grades 9, 10 or 11

This course provides a general knowledge of the natural order of living organisms and their relationship with the environment. Areas of study will include the systems and ecology. Laboratory procedures, observation, measurement, classification, prediction, and reporting skills will be emphasized.

INTEGRATED PHYSICS AND CHEMISTRY (IPC)

Prerequisite: none

Credits: 1

Recommended for Grades 9 or 10

Integrated Physics and Chemistry (IP&C) is a study of the physical aspects of the world. Topics will include properties of matter, atomic structure, the periodic table, motion, energy, forces, work, machines and electricity. A large portion of this course will consist of laboratory and demonstrations. Integrated Physics & Chemistry (IPC) may be taken as one of the science credits, but if selected, it MUST be successfully completed prior to Chemistry and Physics.

CHEMISTRY AND CHEMISTRY HONORS

Prerequisite: one unit of HS science and Algebra I

Credits: 1

Recommended for Grades 10, 11, or 12

This course covers the fundamental concepts of physical chemistry. This is a college preparatory class for students planning to attend a 4-year college/university. Students will be required to use higher level thinking skills and math applications to solve problems related to the properties of elements, compounds and mixtures, atomic structure, chemical bonding, chemical equations and stoichiometry.

PHYSICS AND PHYSICS HONORS

Recommended Prerequisite: Algebra I

Credits: 1

Recommended for Grades 9, 10, 11, or 12

This course is designed for students to 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.

ENVIRONMENTAL SYSTEMS

Recommended Prerequisite: Biology, Chemistry, & Physics

Credits: 1

Recommended for Grades 11 or 12

This course is designed to introduce students to major ecological concepts and the environmental problems that affect the world in which they live. Students will learn about technological developments, which have created environmental problems, as well as technology that is helping to solve them. This program provides one way in which students can become more aware of the interaction of people and their environment. Laboratory and fieldwork will be afforded to enhance learning.

ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS

Recommended Prerequisite: Biology, Chemistry, & Physics

Credits: 1

Recommended for Grades 10, 11, or 12

Students will study the structures and functions of the human body systems. Students will do a comparative study of mammals with an in depth dissection of the cat. Human development, maintenance of homeostasis, transport systems and energy processes will also be topics of study. As part of the laboratory investigative process, students will be active in the dissection of prepared specimens.

SOCIAL STUDIES

WORLD GEOGRAPHY AND WORLD GEOGRAPHY HONORS

Prerequisite: None

Credits: 1

This course is designed to acquaint the student with the geographical make-up of the earth and the physical forces that can alter it. Geographical terminology will be defined. Physical and cultural geography will be compared. Students will explore the physical setting of the earth, the interaction of physical environments and will analyze patterns of urban growth in relationship to the geography of the area.

WORLD HISTORY AND WORLD HISTORY HONORS

Prerequisite: None

Credits: 1

This course gives students the opportunity to trace the historical development of human cultures. It traces political, economic, and social experiences of mankind and applies them to the present for understanding and appreciating the roots, developments, and nature of American-Western civilization. The relationship of Western culture to great world problems involving international civilization will be emphasized.

UNITED STATES HISTORY STUDIES SINCE 1877

Recommended Prerequisite: World History or World Geography

Credits: 1

This course follows the history of America in the 20th century. Emphasis is placed on the problems experienced by an expanding American nation, the strength of her people in war and peace, the development of the United States as a world leader, and the importance of individual rights in a climate of national freedom based on government by constitutional law. These topics are presented in a skills approach to reinforce the basics of critical reading and writing.

GOVERNMENT

Recommended Prerequisite: US History

Credits: 0.5

This course provides the student with an understanding of the functions of the United States, Texas, and local governments. Topics include the foundations and development of the United States governmental system; the purposes, political and economic philosophies of the United States Constitution, Bill of Rights, and Declaration of Independence; the structures and functions of governments at the federal, state and local levels; and responsibilities of American citizenship.

ECONOMICS

Recommended Prerequisite: US History

Credits: 0.5

Recommended for Grade 12

This course is designed to familiarize the student with the factors that have influenced the growth and development of the free enterprise system. Emphasis is placed on topics such as unemployment, inflation, international trade, the interaction of business and labor and the effects of government spending and taxes.

PSYCHOLOGY

Prerequisite: None

Credits: 0.5

This course provides an introduction to the various fields of psychology. Human Growth, development, and behavior are studied in order to understand personality theories and disorders. Other topics include abnormal psychology, group behavior, human interaction, therapy, and altered states of consciousness such as hypnosis, hallucinations, sleep and dreams.

SOCIOLOGY

Prerequisite: None

Credits: 0.5

This course provides an introduction to various fields of sociology. Culture, ethnic and racial groups, gender differences and group dynamics are studied in order to understand socialization. Other topics include crime and deviance, nature versus nurture, and teen problems such as drug and alcohol abuse and other social problems.

PERSONAL FINANCIAL LITERACY

Prerequisite: None

Credits: 0.5

Recommended for Grades 10 – 11

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. The knowledge gained in this course has far-reaching effects for students personally as well as the economy as a whole. The course will teach students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. Students analyze the relationship between education and training and earnings potential; evaluate the quality of potential college, postsecondary education, and training courses; evaluate the total cost of these programs; and analyze the advantages and disadvantages of various sources of funds to pay for their education. Students understand that a constitutional republic is a representative form of government whose representatives derive their authority from the consent of the governed, serve for an established tenure, and are sworn to uphold the constitution. Students identify and discuss how the actions of U.S. citizens and the local, state, and federal governments have either met or failed to meet the ideals espoused in the founding documents.

LANGUAGES OTHER THAN ENGLISH

SPANISH

SPANISH I

Prerequisite: None

Credits: 1

This course is designed to introduce students to the Spanish language and culture. The students will develop skills in listening, speaking, reading, and writing Spanish. Students will explore various aspects of Hispanic culture, heritage, and peoples. Major emphasis is on conversational usage of Spanish in real-life situations.

SPANISH II

Prerequisite: Spanish I

Credits: 1

This course further develops the skills introduced in Spanish I. The students will be involved in an in-depth study of the spoken language, listening, reading, writing, and literature.

Spanish III

Prerequisite: Spanish II

Credits: 1

This course further develops the skills introduced in Spanish II.

CTE

Business, Finance, & Marketing

PRINCIPLES OF BUSINESS, MARKETING, & FINANCE

Prerequisite: None

Credits: 1

Recommended for Grades, 9, 10, and 11

Students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance. This course should help students to know which area of business they would like to pursue in high school.

TOUCH SYSTEM DATA ENTRY (Keyboarding)

Recommended Prerequisite: Principles of Business, Marketing, & Finance

Credits: 0.5

Recommended for Grades 9 and 10

This course will enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents. Students apply technical skills to address business applications of emerging technologies.

HUMAN RESOURCES MANAGEMENT

Recommended Prerequisite: Principles of Business, Marketing, & Finance

Credits: 0.5

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.

BUSINESS INFORMATION MANAGEMENT I

Recommended Prerequisite: Touch Systems Data Entry

Credits: 1

Recommended for Grades 9, 10, 11, and 12

This course provides students the opportunity to implement personal and interpersonal skills to strengthen individual performance in the workplace and/or postsecondary education. Students apply technical skills, using Microsoft Office, to create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation.

BUSINESS INFORMATION MANAGEMENT II

Prerequisite: Business Information Management I

Credits: 1

Recommended for Grades 11 and 12

This course continues where Business Information Management I ends, and students will create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make electronic multimedia presentations. In addition students may prepare for and take Microsoft Office Specialist certification tests in Word and PowerPoint. Students will be required to pay ½ of the certification fee.

Arts, Audio/Video Technology and Communications

PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Prerequisite: None

Credits: 1

Recommended for Grade 9

This course will introduce students to careers in the Arts, Audio/Video Technology and Communications career cluster. Students will develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills and educational requirements for those careers.

GRAPHIC DESIGN AND ILLUSTRATION I

Prerequisite: Principles of Arts, Audio/Video Technology and Communications

Credits: 1

Recommended for Grades 10, 11 and 12

This class will give students an opportunity to express and design creative ideas visually for a growing field. Commercial art concepts and design strategies will be explored using design principles and art elements for creating ads, logos, newsletters, magazine covers, illustrations and more. Students will learn to create and design artwork for projects using Adobe software. A final DVD with student artwork will be created for a digital portfolio.

ANIMATION I

Recommended Prerequisite: Graphic Design and Illustration

Credits: 1

Recommended for Grades 10, 11, and 12

This course is for the creative student wanting to explore computer animation. Animation is a growing art form providing a need in multiple careers such as entertainment, advertising commercials, medical and legal fields, and other areas wanting a strong visual impact. Design principles of animation will be used for creating storyboards to develop characters and story lines. Sound will be imported into animations. Multiple file formats and forms of animation will be discussed and explored, including 2D and 3D animation. Adobe software will be used. A final DVD including animation will be created by students for a digital portfolio.

ADVANCED ANIMATION II

Prerequisite: Animation

Credits: 1

Recommended for Grades 11 and 12

Advanced animation will provide opportunities for serious students wanting to expand their skills and creative ideas in animation. Students will compare various styles of animation and will create and develop characters, storyboards, and environments to be animated. Writing and editing script for a specific audience will be explored. Sound and audio effects will be created, imported, and edited for special effects. The production process of assembling of assembling particle systems for special effects will be practiced. Students will travel through the creative animation process and choose a final 2D or 3D animation. Students will present the final project in a DVD format and electronically.

Human Services

PRINCIPLES OF HUMAN SERVICES

Prerequisite: None

Credits: 1

Recommended for Grades 9, 10, 11, and 12

This course enables students to investigate careers related to counseling and mental health, child development, and family life. Students will set measurable goals, demonstrate effective communication skills, evaluate challenges families face, learn techniques for child guidance, and prepare nutritious meals.

CHILD DEVELOPMENT

Recommended Prerequisite: Principles of Human Services

Credits: 0.5

Recommended for Grades 10, 11, and 12

This course addresses skills related to child growth and development from pregnancy through school-age. Students will identify healthy behaviors during pregnancy, understand the birthing process, and identify the physical, emotional, social, and intellectual development of children at various stages of development. Other topics include characteristics of quality child care, prevention of child abuse, and investigate safe and healthy environments for children to grow and thrive properly.

CHILD GUIDANCE

Recommended Prerequisite: Principles of Human Services, Child Development
Recommended for Grades 10, 11, and 12

Credits: 1

This technical laboratory course addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs.

DOLLARS AND SENSE

Recommended Prerequisite: Principles of Human Services
Recommended for Grades 10, 11, and 12

Credits: 0.5

This course focuses on decision-making skills related to money management. Students will plan a household budget, understand proper credit card use, balance a check book, and calculate interest accrued from loans.

PRACTICUM IN HUMAN SERVICES

Recommended Prerequisite: All courses in the Human Service Strand

Credits: 2

This class will provide occupationally specific training and focuses on the development of consumer services, early childhood development and services, and family and community services careers. Content for practicum is designed to meet the occupational preparation needs and interests of students.

Agriculture, Food, and Natural Resources

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

Prerequisite: None

Credits: 1

Recommended for Grades 9, 10, 11, and 12

This introductory course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.

LIVESTOCK PRODUCTION

Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended for Grades 10, 11, and 12

Credits: 0.5

Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

EQUINE SCIENCE

Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources **Credits: 0.5**
Recommended for Grades 10, 11, and 12

For careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys and mules.

VETERINARY MEDICAL APPLICATIONS

Prerequisite: None **Credits: 1**
Recommended for Grades 10, 11, and 12

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 the work place, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

ADVANCED ANIMAL SCIENCE

Recommended Prerequisite: All Animal strand courses **Credits: 1**
Recommended for Grade 12

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. Students may take this class for college credit: Students must have passed all sections of the TSI Assessment, apply with Hill College, and pay the allotted tuition/fees prior to the beginning of the course in order to receive college credit. Students must apply with BBCTA/FHS Counselors. Note: Course can be used as an advanced science credit.

Agriculture-Mechanical

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

Prerequisite: None **Credits: 1**
Recommended for Grades 9, 10, 11, and 12

This introductory course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.

AGRICULTURE MECHANICS AND METAL TECHNOLOGIES

Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources **Credits: 1**
Recommended for Grades 10, 11, and 12

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

WELDING

Prerequisite: Algebra 1, Ag Mech & Metal, Instructor permission **Credits: 1**

This course provides the knowledge, skills, and technology required for employment in metal technology systems. This course supports the integration of academic and technical knowledge and skills. Students will wire weld as well as use hand and power tools. The plasma cutter and the cutting torch will be also be introduced. Students will use measurement, drafting, welding, and metal fabrication skills. Projects may require a lab fee.

ADVANCED WELDING

Prerequisite: Welding I **Credits: 2**

Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate 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

Science Technology, Engineering and Mathematics

PRINCIPLES OF APPLIED ENGINEERING

Prerequisite: None **Credits: 1**

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.

ENGINEERING DESIGN AND PRESENTATION I

Prerequisite: Principles of Applied Engineering; Algebra I

Credits: 1

Engineering Design and Presentation I is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process 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, and drafting and what is required to gain and maintain employment in these areas.

ENGINEERING DESIGN AND PRESENTATION II

Prerequisite: Engineering Design & Presentation I; Algebra I; Geometry

Credits: 2

T Engineering Design and Presentation II is a continuation of knowledge and skills learned in Engineering Design and Presentation I. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, 34 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. Emphasis will be placed on using skills from ideation through prototyping.

ENGINEERING DESIGN & PROBLEM SOLVING

Prerequisite: Engineering Design & Presentation II; Algebra I; Geometry

Credits: 1

The Engineering Design and Problem Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines. This course is intended to stimulate students' ingenuity, intellectual talents, and practical skills in devising solutions to engineering design problems. Students use the engineering design process cycle to investigate, design, plan, create, and evaluate solutions. At the same time, this course fosters awareness of the social and ethical implications of technological development

ELECTIVES

ACT/SAT PREP

Prerequisite: None

Credits: 0.5

Grades 11-12

This class will help prepare the student for the math and English sections of the ACT and/or SAT.

ART I

Prerequisite: None

Credits: 1

In this course the student studies design, drawing, painting, graphics arts, and art history. Other topics include work in clay, weaving, and sculpture. Awareness and sensitivity to one's environment will be developed, along with inventive and imaginative expression through art materials and tools. Students will also practice visual discrimination and aesthetic judgment.

ART II DRAWING

Prerequisite: Art I

Credits: 1

This course provides students an opportunity to further develop their drawing skills. Higher-level thinking skills are challenged with design and composition projects that will use a variety of drawing media, techniques and themes. Emphasis on the student of art history will provide students the opportunity to learn evaluation techniques and to apply this knowledge to their own work.

ART III DRAWING

Prerequisite: Art II Drawing

Credits: 1

This course is an in-depth study of drawing and provides projects on an advanced level. Students will develop a personal style and demonstrate effective use of selected drawing media in solving visual problems and assignments. The student of artists and their artworks, art in other cultures and strategies for evaluating artworks are integral to the course.

ART IV Drawing

Prerequisite: Art III Drawing

Credits: 1

The experiences given and skills developed in Art I, II, and III prepare students for in-depth study of special problems based on drawing media. They will produce a body of artwork and develop evaluative criteria for selecting artworks to include in a portfolio. Students continue to study artists and their artworks, art in other cultures, evaluation of artworks, and justification for decisions.

ATHLETICS

Prerequisite: Approval of Head Coach/Try-outs

Credits: 1 per year up to 4 years

The School District Athletic Department offers a full range of UIL sponsored competitive athletic activities for young men and women. These courses will include such things as rules of the game, proper sportsmanship, training in skill and techniques, physical conditioning and competitive sports versus other UIL high schools.

DANCE I

Prerequisite: none

Credits: 1

Beginning dance class includes an overview of a variety of dance genres (jazz, hip-hop, ballet, lyrical, modern, and various drill team styles). Students will develop performance and choreographic skills.

DANCE II

Prerequisite: Dance I

Credits: 1

Recommended for Grades: 10 - 12

Intermediate dance class includes an overview of a variety of dance genres (jazz, hip-hop, ballet, lyrical, modern, and various drill team styles). Students will develop performance and choreographic skills. An important element of this class is physical conditioning to develop flexi

DANCE III, IV

Prerequisite: Dance II and Dance III respectively

Credits: 1 each

Advanced dance class includes extensive study of a variety of dance genres. Continued development of technical facility and refinement of high-level performance skills will be the focus of this class. Students will develop performance and choreographic skills. Students can expect a high level of physical demand in the day-to-day routine of this class.

MARCHING BAND

Prerequisite: Audition

Credits: 1

Marching Band will waive ½ credit of PE each fall up to 1.0 P.E. credit

The Marching Band performs at all varsity football games and related activities. The Marching Band also participates in various marching competitions and civic performances in the area. All members will be expected to attend all rehearsals and performances. The Marching Band rehearses daily after school hours. The Marching Band is a part of the total band program. Enrollment in the total program is required. Marching Band will waive ½ credit of PE each fall.

OFFICE AIDE/LIBRARY AIDE

Prerequisite: Senior Student Application Process

Credits: Local Credit Only

This credit WILL NOT go towards state graduation credits.

Students in this course will be assigned to an office or a library as an aide. Students receive experience in general office administration.

PE – FOUNDATIONS OF PHYSICAL FITNESS

Prerequisite: None

Credits: 1

Students in Foundations of Personal Fitness are expected to participate in a wide range of activities that can be pursued for a lifetime. Principles of exercise, health, skill related fitness and nutrition will be addresses. Students will learn to develop and maintain their own personal exercise program.

SPORTS MEDICINE I, II, III

Prerequisite: 10th, 11th or 12th Grade and approval of Athletic Trainer

Credits: 1 each

This course is for students who have an interest in Sports Medicine or Physical Therapy. Grading for the class is based on attending required practices before or after school and scheduled athletic events. Students may be required to attend events prior to the beginning of the school year and during school breaks. Students will learn basic competencies of Athletic Training such as CPR and First Aid.

THEATER ARTS I, II, III, IV

Prerequisite: None

Credits: 1 each

This course stresses the expressive use of body and voice, along with aesthetic growth through appreciation of theatrical events. The course of study includes basic actor training, stage movement including mime and stage combat, and voice and diction including oral interpretation and characterization.

THEATER PRODUCTION I, II, III, IV

Prerequisite: Student Application/Audition

Credits: 1 each

This class will be required to meet outside of regular class time (usually after school, at night, and/or on the weekends). Class will meet 8-10 weeks for a minimum of 15 hours per week. There will be at least one production each year. Rehearsals and crews will be assigned. Each student is required to be involved in production activities a minimum of 80 hours. Students enrolling in this course may be expected to adhere to a more stringent dress requirement, which will be at the students' own expense.

TECHNICAL THEATER I, II, III, IV

Prerequisite: Student Application

Credits: 1 each

Design and production concepts and techniques will be studied in scenery, properties, lighting, sound, costumes and make-up. Hands-on experience will be involved in class practicum and during production of shows during the school year. Students will have 20 hours of outside/after school lab time during the course.

YEARBOOK I, II, III, IV

Prerequisite: none

Credits: 1 each

Students will become aware of publishing techniques to the extent that they will produce the school yearbook. Specialize writing, advertising, graphics, design and layout, and editing are taught in this course.

HILL COLLEGE DUAL CREDIT

BIOL 2401. Anatomy and Physiology I. 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. 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.

ECON 2301. Principles of Macroeconomics. An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy

ENGL 1301. Composition I. 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 II. 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. Prerequisite: ENGL 1301 or approval of the instructor.

ENGL 2322. British (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. Prerequisite: six semester hours of composition or approval of the instructor.

ENGL 2323. British (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. Prerequisite: six semester hours of composition or approval of the instructor.

GOVT 2305. Federal Government. Surveys the origins and development of the US Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, systems of government, political participation, the media, the national election process, public policy including foreign relations, national defense, fiscal economy policy, and domestic and social policy, civil liberties, and civil rights.

GOVT 2306 Texas State and Local Government. This course surveys state and local government in Texas, its people, history, and culture. The nature, organization and general principles of government in the state of Texas and on the local level will be examined including the state constitution, state political parties, voting, and elections, spending and services, taxation and budgeting, rural and urban problems, and local government. Also includes an analysis of the legislative, executive, and judicial functions. This course shall strive to increase your knowledge and understanding of the processes and workings of our state and local government, and also emphasize to students the importance of participating in politics and civic life at the state and local levels.

HIST 1301. United States History I. A survey of the history of the United States from its European background through the Reconstruction Era, with emphasis on colonization, the War of Independence, the Jefferson and Jackson Ages, Westward Movement events leading to and the fighting of the War Between the States, and the Reconstruction Era of 1865-1877. All aspects of history are considered: social, political, economic, military.

HIST 1302. United States History II. A survey of the United States from 1877 to the present, starting with the Hayes administration, emphasizing industrial growth, social changes and reforms and the role of the United States in 20th Century reforms, political trends, international commitments and leadership

MATH 1314. College Algebra. In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Prerequisites: Two years high school algebra or permission of instructor.

SPCH 1315. Public Speaking. This is a practical course in public speaking, employing oral assignments demonstrating the ability to choose a topic, do research, organize a speech, and deliver it with maximum control over stage fright. Students prepare and deliver a minimum of four speeches, followed by critiques.

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.

SPAN 1411. Elementary Spanish. (Spanish Level I) A course covering the essentials of Spanish (pronunciation, basic vocabulary, functional grammar, sentence structure, inflections, and common idioms) with stress on reading, understanding, writing, and speaking.

SPAN 1412. Elementary Spanish. (Spanish Level II) Continuation of SPAN 1411. Prerequisite: SPAN 1411 or equivalent or one year of high school Spanish or consent of the instructor.

Texas Virtual School Network (TxVSN)

The Texas Virtual School Network (TxVSN) has been established by the state as one method of distance learning. A student has the option, with certain limitations, to enroll in a course offered through the TxVSN to earn course credit for graduation.

Depending on the TxVSN course in which a student enrolls, the course may be subject to the “no pass, no play” rules. In addition, for a student who enrolls in a TxVSN course for which an end-of-course (EOC) assessment is required, the student must still take the corresponding EOC assessment.

If you have questions or wish to make a request that your child be enrolled in a TxVSN course, please contact the school counselor. Unless an exception is made by the campus principal or designee, a student will not be allowed to enroll in a TxVSN course if the school offers the same or a similar course.