

THORNDALE HIGH SCHOOL

COURSE DESCRIPTIONS

2010/2011

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Course descriptions are developed from the Texas Essential Knowledge and Skills and Thorndale High School teacher input. Elective courses offered each year will depend on the number of student requests.

LANGUAGE ARTS

Credits required for graduation: Minimum – 4 Recommended – 4 Distinguished Achievement – 4
English 1, English 2, English 3, English 4

ENGLISH I (201)

(ENG 1) PEIMS Number: 03220100

1 credit

GRADE PLACEMENT: 9

PREREQUISITE: None

DESCRIPTION: This course integrates grammatical, mechanical, and syntactical skills into meaningful contexts as students use the composing process to generate and share both oral and written compositions for specific audiences and purposes. The process will culminate in a research paper incorporating information from sources in addition to personal experience. Students will enhance reading skills by analyzing literature with a focus on how the characteristics of types of literature contribute to meaning and by exploring cultural attitudes and customs.

Pre-ADVANCED PLACEMENT ENGLISH I (218)

(PREAPENG I) PEIMS Number: 03220100

1 credit

GRADE PLACEMENT: 9

PREREQUISITE: Teacher Recommendation, summer reading list

DESCRIPTION: The Pre-AP English I course will increase the amount and depth of material covered in the regular English I course. It is designed to increase students responsibility for learning the material covered and to prepare them for success in AP English courses. College level material with adult themes and context will be covered.

ENGLISH II (202)

(ENG 2) PEIMS Number: 03220200

1 credit

GRADE PLACEMENT: 10

PREREQUISITE: Credit for English I

DESCRIPTION: This course enables students to write compositions of increasing length and complexity in a variety of aims and models including multi-paragraph compositions incorporating information with documentation. The grammatical, mechanical, and syntactical skills of language are taught within the writing process. Comprehension skills will be enhanced through the analysis of types of literature and themes.

Pre-ADVANCED PLACEMENT ENGLISH II (214)

(PREAPENG 2) PEIMS Number: 03220200

1 credit

GRADE PLACEMENT: 10

PREREQUISITE: Credit for English I, teacher Recommendation, summer reading list

DESCRIPTION: The Pre-AP English II course will increase the amount and depth of material covered in the regular English II course. It is designed to increase students responsibility for learning the material covered and to prepare them for success in AP English courses. College level material with adult themes and context will be covered.

ENGLISH III (203)

(ENG 3) PEIMS Number: 03220300

1 credit

GRADE PLACEMENT: 11

PREREQUISITE: Credit for English II

DESCRIPTION: This course explores major authors, periods, and forms of American literature. The grammatical, mechanical, and syntactical skills of modern language are integrated into written and oral discourse including multi-paragraph compositions analyzing literature and incorporating information with documentation.

ADVANCED PLACEMENT ENGLISH LANGUAGE (212)

(APENGLAN) PEIMS Number: A3220100

1 credit

GRADE PLACEMENT: 11

PREREQUISITE: Credit for English II, teacher recommendation, summer reading list

DESCRIPTION: The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. College level material with adult themes and context will be covered.

ADVANCED PLACEMENT ENGLISH LITERATURE (213)

(APENGLIT) PEIMS Number: A3220200

1 Credit

GRADE PLACEMENT: 12

PREREQUISITE: Credit for English III, teacher recommendation, summer reading list

DESCRIPTION: The AP English Literature and Composition course is designed to provide students with a learning experience equivalent to that of an introductory college course in English Literature. The course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. College level material with adult themes and context will be covered.

ENGLISH IV (204)

(ENG 4) PEIMS Number: 03220400

1 credit

GRADE PLACEMENT: 12

PREREQUISITE: Credit for English III

DESCRIPTION: This course emphasizes the development of precision in meaning through sophisticated language and rhetorical choices as compositions are revised for specific purposes and audiences. Major works will be studied to explore the development of the English language and the historical context, major themes, and authors of representative British literature.

DEBATE (223)

(DEBATE 1) PEIMS Number: 03240600

(DEBATE 2) PEIMS Number: 03240700

(DEBATE 3) PEIMS Number: 03240800

1 credit

GRADE PLACEMENT: 9-12

PREREQUISITE: Teacher permission

DESCRIPTION: In this course, students will examine various formats and forms of debate. Students will research propositions, prepare and evaluate proofs, and participate in debates. Students will develop skills in speaking, analysis, logical reasoning, critical thinking, argumentation, and audience analysis. By competing in tournament debates, students will utilize refined skills of reading, writing, listening, and analyzing materials.

YEARBOOK (210, 215, 216, 222)

(YBK1) PEIMS Number: 03230100

(YBK2) PEIMS Number: 03230120

(YBK3) PEIMS Number: 03230130

(YBK4) PEIMS Number: 03231000

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: Teacher permission

DESCRIPTION: In Yearbook, 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.

SPEECH

Credits required for graduation: Minimum – ½, Recommended – ½, Distinguished Achievement – ½

PROFESSIONAL COMMUNICATIONS (823)

(PROFCOMM) PEIMS Number: 13009900

½ Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: None

DESCRIPTION: This course blends written, oral, and graphic communication in a career-based environment. Careers in a global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

MATHEMATIC

Credits required for graduation: Minimum – 3 Recommended – 4 Distinguished Achievement – 4

Algebra 1, Geometry, Algebra 2, 4th Mathematics course

ALGEBRA I (306)

(ALG 1) PEIMS Number: 03100500

1 Credit

GRADE PLACEMENT: 9, 10

PREREQUISITE: None

DESCRIPTION: Algebra I is the regular entry level mathematics course. This course employs manipulatives and technology to ensure conceptual understanding in the use of algebraic functions and equations.

GEOMETRY (301)

(GEOM) PEIMS Number: 03100700

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: Credit for Algebra I

DESCRIPTION: Geometry follows Algebra I. Relationships in geometric figures are studied. Algebra skills are used to solve problems involving geometric figures. The rectangular coordinate system is used. An introduction to trigonometry is included. Graphing calculators, protractors, compasses, and manipulatives are used. TAKS preparation is stressed.

ALGEBRA II (305)

(ALG 2) PEIMS Number: 031000600

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Credit in Algebra I and Geometry

DESCRIPTION: Algebra II follows geometry. Functions such as linear, constant, absolute value, greatest integer, quadratic, and polynomial are studied. Matrix algebra is introduced. Solving systems of equations and inequalities are studied. Exponential and logarithmic equations are introduced. Graphing is a high priority. Making transformations in graphing is studied. Graphing calculators are used extensively. TAKS preparation is stressed.

Pre-ADVANCED PLACEMENT PRE-CALCULUS (303)

(PRE CALC) PEIMS Number: 03101100

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: Credit in Geometry and Algebra II, teacher recommendation

DESCRIPTION: Pre-calculus includes the study of algebra functions, exponential and logarithmic functions, and trigonometric functions. The graphs of each function are analyzed in detail. Trigonometric equations, identities, and applications are studied. Conic Sections are defined and graphed. Sequence, series, and limits are introduced. Graphing calculators are used.

ADVANCED PLACEMENT CALCULUS (304)

(APCALCAB) PEIMS Number: A3100101

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: Credit in Pre-Calculus, teacher recommendation

DESCRIPTION: AP Calculus course content is established by the College Board. The course covers limits, derivatives, and integrals. Applications are stressed as well as verbalizing the solution to a problem. Students are expected to participate in the AB level of the College Board Advanced Placement examination for college credit.

STATISTICS (308)

(STATS) PEIMS Number: A3100200

1 Credit

GRADE PLACEMENT: 12

PREREQUISITE: Algebra 2

DESCRIPTION: In Statistics, students will develop a working knowledge of the principles and tools in practical statistics. Data analysis, data production, probability, and statistical inference are the four units of study. In data analysis, students learn to organize and describe data using graphs and numerical summaries. In data production, methods for producing data that give clear answers to specific questions are studied. In probability, chance, variation and risk are discussed. In statistical inference, students learn to go beyond the data to draw conclusions about a wider universe. The graphing calculator is used extensively.

SCIENCE

Credits required for graduation: Minimum –2 Recommended – 4 Distinguished Achievement – 4
Biology, Chemistry, Physics, 4th Science

BIOLOGY (403)

(BIO) PEIMS Number: 03010200

1 Credit

GRADE PLACEMENT: 9, 10

PREREQUISITE: None

DESCRIPTION: Biology is a laboratory-oriented survey of living organisms. Students will use biological equipment, selected chemicals, biological specimens, and scientific processes. They will collect and analyze biological data, investigate career opportunities, and apply biological concepts to real-life applications.

Pre-ADVANCED PLACEMENT BIOLOGY (410)

(PREAPBIO) PEIMS Number 03010200

1 Credit

GRADE PLACEMENT: 9

PREREQUISITE: None

DESCRIPTION: The Pre-AP Biology course will increase the amount and depth of material covered in the regular biology course. Students in Pre-AP science courses are expected to develop strategies for understanding and reporting laboratory and written investigations in a coherently written manner including essays. The course is designed to increase his/her responsibility for learning the material covered and to prepare them for success in the AP Biology course.

ADVANCED PLACEMENT BIOLOGY (404)

(AP-BIO) PEIMS Number: A3010200

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: Credit for Biology and one other high school science course, teacher recommendation

DESCRIPTION: AP Biology is a college-level, laboratory-based course designed to prepare students for the College Board Advanced Placement Biology Examination. Students will gain the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing field of biology. Emphasis will be on molecules and cells (25%), heredity and evolution (25%), and organisms and populations (50%).

NOTE: College credit and/or advanced standing can be achieved by demonstrating competencies on the College Board Advanced Placement Examination for biology.

INTEGRATED PHYSICS AND CHEMISTRY (408)

(IPC) PEIMS Number: 03060201

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: None

DESCRIPTION: In IPC, 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. IPC may not be taken as the final or 4th year of science for the Recommended HS Program, and may not be taken for credit towards the Distinguished Achievement HS Program.

CHEMISTRY (401)

(CHEM) PEIMS Number: 03040000

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Credit for Algebra I and one credit of high school science.

DESCRIPTION: Chemistry is a laboratory-oriented study of the metric system, measurement of matter and energy, atomic structure, chemical symbols and formulas, bonding, chemical equations, oxidation-reduction reactions, the mole concept, kinetic theory, the properties of electrochemistry, nuclear and organic chemistry. Students will use process skills and laboratory equipment and techniques. Career opportunities, environmental concerns, and energy problems are explored.

Pre-ADVANCED PLACEMENT CHEMISTRY (412)

1 Credit

GRADE PLACEMENT: 10

PREREQUISITE: Credit for Algebra I and one credit of high school science.

DESCRIPTION: The Pre-AP Chemistry course will increase the amount and depth of content covered by the regular chemistry course. The student is expected to develop strategies for understanding and report material in a coherent written form. The emphasis will be on laboratory work to enhance understanding of concepts and, due to the nature of the course, students are required to perform in a responsible manner. The course will help students develop the skills, attitudes, and actions needed for success in the Advanced Placement Chemistry course.

ADVANCED PLACEMENT CHEMISTRY (402)

(AP-CHEM) PEIMS NUMBER: A3040000

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: Credit for Chemistry and one other high school science course, credit for or concurrent enrollment in Algebra II, teacher recommendation

DESCRIPTION: Advanced Placement Chemistry is a laboratory-oriented, college freshman-level chemistry course of theoretical chemistry concepts. Laboratory experiments emphasize student analysis of laboratory data and documented reports. Chemistry concepts include atomic theory, chemical bonds, nuclear chemistry, gases, liquids, solids, solutions, acids, bases, oxidation-reduction reactions, equilibrium, kinetics, thermodynamics, and descriptive chemistry.

NOTE: College credit and/or advanced standing can be achieved by demonstrating competencies on the College Board Advanced Placement Examination for chemistry.

PHYSICS (405)

(PHYSICS) PEIMS Number: 03050000

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: Algebra 1

DESCRIPTION: 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. 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.

Pre-ADVANCED PLACEMENT PHYSICS (309)

(PHYSICS) PEIMS Number: 03050000

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: Completion or concurrent enrollment in Pre-Calculus, teacher recommendation

DESCRIPTION: This is a college-level, trigonometry-based physics course that includes the study of mechanics, thermodynamics, electricity, magnetism, light, sound, waves, and modern physics. The course emphases are critical thinking, problem solving, and application of principles. A strong math background is recommended

SOCIAL STUDIES

Credits required for graduation: Minimum – 2 ½ Recommended – 3 ½ Distinguished Achievement – 3 ½
World Geography, World History, US History, Government

WORLD GEOGRAPHY (503)

(W GEO) PEIMS Number: 03320100

1 Credit

GRADE PLACEMENT: 9, 10

PREREQUISITE: None

DESCRIPTION: In World Geography, students examine the physical and human aspects of our world - people and their cultures. Students are introduced to the scientific methods of geographers by asking questions, by gathering and organizing data, and by drawing conclusions that help them understand our complex world. The themes of location, place, human/environmental interaction, movement, and regions provide the framework for studying and researching the contemporary world.

WORLD HISTORY (501)

(W HIST) PEIMS Number: 03340400

1 Credit

GRADE PLACEMENT: 10, 11

PREREQUISITE: None

DESCRIPTION: World History is the only course offering students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world.

UNITED STATES HISTORY (502)

(US HIST) PEIMS Number: 03340100

1 Credit

GRADE PLACEMENT: 11

PREREQUISITE: Credit for World Geography or World History

DESCRIPTION: United States History traces the emergence and growth of the United States following Reconstruction to the present. Crisis, wars, victories, defeats, and peace are studied using the examples of the World Wars, Korea, Cuba, Vietnam, and the Persian Gulf to understand how people and events of history have shaped the present and will continue to affect the future. Domestic issues are also emphasized.

PSYCHOLOGY (506)

(PSYCH) PEIMS Number: 03350100

1/2 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: None

DESCRIPTION: In Psychology, an elective course, students consider the development of the individual and the personality. The study of psychology is based on a historical framework and relies on effective collection and analysis of data. Students study topics such as theories of human development, personality, motivation, and learning.

SOCIOLOGY (507)

(SOC) PEIMS Number: 03370100

½ Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: None

DESCRIPTION: In Sociology, an elective course, students study dynamics and models of individual and group relationships. Students study topics such as the history and systems of sociology, cultural and social norms, social institutions, and mass communication.

UNITED STATES GOVERNMENT (504)

(GOVT) PEIMS Number: 03330100

1 Credit

GRADE PLACEMENT: 12

PREREQUISITE: Credit for U. S. History

DESCRIPTION: United States Government is the culmination of the civic literacy strand. The Constitution and the Bill of Rights provide the framework for the major themes: federalism, legislative and executive branches, courts, and the nation's governmental bodies. The structures, functions, and powers of national, state, and local levels are included.

ECON/FREE ENTERPRISE

Credits required for graduation: Minimum – ½ Recommended – ½ Distinguished Achievement – ½

ECONOMICS (505)

(ECO-FE) PEIMS Number: 03310300

1/2 Credit

GRADE PLACEMENT: 12

PREREQUISITE: Credit for U. S. History

DESCRIPTION: Economics focuses on the pervasive impact of economics on the lives of people. Economics emphasizes the basic principles of production, consumption, and distribution of goods and services in the United States and a comparison with those of other countries.

PE/EQUIVALENT

Credits required for graduation: Minimum–1 Recommended – 1 Distinguished Achievement – 1

PHYSICAL EDUCATION (950/948)

(PE 1A) PEIMS Number: 03820101

GRADE PLACEMENT: 9-12

PREREQUISITE: None

DESCRIPTION: The basic purpose of this class is to motivate students to strive for lifetime personal fitness with an emphasis on the knowledge and skills that promote wellness or optimal levels of health. The focus of this course is on learning the process of becoming fit as well as achieving some degree of fitness within the class. Students will design their own fitness program.

ATHLETICS (950/951/952)

(PE EQ1, PE EQ2, PE EQ3, PE EQ4) PEIMS Numbers: 03820501, 03820502, 03820503, 03820504

GRADE PLACEMENT: 9-12

PREREQUISITE: Member of an athletic team, approval from the athletic director

DESCRIPTION: Athletics is listed as PE Equivalent on student academic records. All athletes must pass a physical examination their first year of athletics and complete all other appropriate forms.

OTHER LANGUAGES

Credits required for graduation: Minimum – None Recommended – 2 Distinguished Achievement – 3

SPANISH I (251)

(SPAN 1) PEIMS Number: 03440100

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: None

DESCRIPTION: This course introduces the basic language skills of listening comprehension, speaking, reading, and writing. Students will learn vocabulary and grammatical structures necessary to communicate in everyday situations. A variety of projects, films, songs, and student presentations will reinforce language skills and introduce various aspects of Hispanic culture.

SPANISH II (252)

(SPAN 2) PEIMS Number: 03440200

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Credit for Spanish I

DESCRIPTION: This course reviews the basic structures and vocabulary learned in Spanish I and continues with additional structures and vocabulary to increase language proficiency. Oral communication skills are practiced and evaluated through a variety of activities including class presentations, individual and paired oral testing, and creative projects. Emphasis on Hispanic culture continues through films, songs, and readings.

Pre-ADVANCED PLACEMENT SPANISH III (253)

(PreAPSPANLANG) PEIMS Number: 03440300

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: Credit for Spanish II, teacher recommendation

DESCRIPTION: Spanish III continues the emphasis on communication established in levels I and II. Students will learn structures and vocabulary necessary to communicate in Spanish and continues with additional structures and vocabulary to increase language proficiency. Oral communication skills are practiced and evaluated through a variety of activities including class presentation, individual and paired oral testing, and creative projects. Emphasis on Hispanic culture continues through films, songs, and readings. Additionally, students will participate in literature-based activities, writing assignments, and seminar-type class discussions.

ADVANCED PLACEMENT SPANISH LANGUAGE (254)

(APSPANLANG) PEIMS Number: A3440100

1 Credit

GRADE PLACEMENT: 12

PREREQUISITE: Credit for Spanish III, teacher recommendation

DESCRIPTION: AP Spanish Language is designed to provide students with a learning experience equivalent to that of a college course in Spanish Language at the third-year college level. The course integrates aural/oral, reading, and composition skills, and includes an extensive student of advanced grammar. This class will be offered only if numbers in Spanish 1, 2, and 3 (PreAP) permit.

FINE ARTS

Credits required for graduation: Minimum – 1 Recommended – 1 Distinguished Achievement – 1

BAND

Participation in Varsity Band is subject to instructor approval. All Varsity Band students are required to participate in rehearsals and performances before and after school. Band students are expected to rent or purchase their own instruments, except for certain instruments provided by the school. Students will also need to purchase their own mouthpieces, reeds, and accessories.

Students receive a PE waiver for the fall semester of marching band. Marching band rehearsals will generally begin in early August before the fall semester begins, and during the fall semester, rehearsals may be held before and/or after school. The band marches at varsity football games and competes in marching contests sponsored by the University Interscholastic League (UIL) and other organizations.

BAND I (901), II (902), III (903), IV (904)

(MUS1BAND) PEIMS Number: 03150100

(MUS2BAND) PEIMS Number: 03150200

(MUS3BAND) PEIMS Number: 03150300

(MUS4BAND) PEIMS Number: 03150400

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: Middle School Band credit and/or band director approval, audition may be required

DESCRIPTION: Band members range in skill from students who will focus on developing fundamental playing techniques to those who are experienced instrumental musicians. Students will develop music reading skills, ensemble playing techniques, and listening skills. Students develop self-discipline and leadership skills as they learn how to work as a group. The Varsity Band may perform in UIL and other concert and sight reading contests. Students may audition for regional and state-level solo, ensemble, and band contests. Concerts are presented throughout the year.

JAZZ BAND I (898), II (897), III (896), IV (895)

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: Same as Band

DESCRIPTION: Same as Band; students focus on the music genre of jazz.

ART I (906)

ART 1) PEIMS Number: 03500100

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: None

DESCRIPTION: Art I introduces the elements and principles of art, with emphasis upon creative visual problem solving. Students design, develop and create original art by working in the areas of drawing, painting, printmaking, and sculpture. Students study principles of design, a variety of media, art appreciation and critique.

ART II –PAINTING (916)

(ART2DRAW, ART2PATG) PEIMS Number: 03500500

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Art I

DESCRIPTION: Art II can be drawing or painting, depending on the year offered. Drawing will include Realistic, Abstract, or Figurative representation; various media will be used with an emphasis on creative thinking. Painting will focus on various mediums and styles of painting. Students will study the History of Paint through the projects assigned. Emphasis will be placed on creative thinking, intuition, and problem solving. Some sculpture will be included in Art II.

ART III – PAINTING (909)

(ART3PAINT) PEIMS Number: 03501300

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: By approval only

DESCRIPTION: Students may continue to take Art II for 3 years. Students must demonstrate in Art II a willingness to work, stay focused, think creatively, and show improvement in their artistic skills to be considered for Art III. Art III class may be combined with the AP Studio Art students so the class size may be limited to 8 Art III students. Art III students are able to specialize in a medium that most interests them, and they help to create their project assignments. They must be self-motivated and truly interested in art.

Pre-ADVANCED PLACEMENT DRAW (920)

(PREAPDRAW) PEIMS Number: 03501300

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE/DESCRIPTION: By approval only, see Mrs. Griffin

Pre-ADVANCED PLACEMENT SCULPTURE (921)

(PREAPSCLP) PEIMS Number: 03501900

1 Credit

GRADE PLACEMENT: 11, 12

PREREQUISITE/DESCRIPTION: By approval only, see Mrs. Griffin

ADVANCED PLACEMENT ART (910)

(APSTARTD) PEIMS Number: 03500300

(AP2DDP) PEIMS Number: A3500400

(AP3DDP) PEIMS Number: A3500500

1 Credit

GRADE PLACEMENT: 12

PREREQUISITE: By approval only.

DESCRIPTION: The AP Studio Art course is designed to provide students with a learning experience equivalent to that of an introductory college course in studio art foundation. Students have the option of submitting one of three different portfolios – Drawing, 2D-Design, or 3D-Design. They must complete the required 18-24 projects. The projects must show artistic growth as well as creative thought, insight, and a personal statement. They need to be prepared to devote a lot of time outside class to complete their projects.

CAREER/TECH ED

ANATOMY AND PHYSIOLOGY (406)

(ANATPHYS) PEIMS Number: 12112130

1 Credit, may be used for 4th science credit

GRADE PLACEMENT: 11, 12

PREREQUISITE: Biology and Chemistry

DESCRIPTION: In this course, students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking, and problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. This course must include at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

SCIENCE RESEARCH AND DEVELOPMENT (411)

(SCIRD) PEIMS Number: 12112120

1 Credit, may be used for 4th science credit

GRADE PLACEMENT: 12

PREREQUISITE: Biology and Chemistry, teacher permission

DESCRIPTION: In this course, students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. The student actively formulates a problem related to health science, designs the research and procedures to be used, and plans a final product that will involve a formal presentation to representatives of the scientific community. This research-based course meets one of the Distinguished Program measures. This course may be completed in the classroom setting, or as an independent seminar. This course must include at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

FOOD SCIENCE (415)

(FOODSCI) PEIMS Number: 1302300

1 Credit, may be used for 4th science credit

GRADE PLACEMENT: 12

PREREQUISITE: Three credits of science

DESCRIPTION: Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. To receive credit for science, students must meet the 40% laboratory and fieldwork requirement.

ADVANCED ANIMAL SCIENCE

(ADVANSKI) PEIMS Number: 13000700

1 Credit, may be used for 4th science credit

GRADE PLACEMENT: 12

PREREQUISITE: Three credits of science, minimum of one credit from the courses of Agriculture, Food, and Natural Resources cluster.

DESCRIPTION: To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. To receive credit for science, students must meet the 40% laboratory and fieldwork requirement.

ADVANCED PLANT AND SOIL SCIENCE

(ADVPPSCI) PEIMS Number: 13002100

1 Credit

GRADE PLACEMENT: 12

PREREQUISITE: Three credits of science, a minimum of one credit from the Agriculture, Food, and Natural Resources cluster.

DESCRIPTION: Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. This course is designed to prepare students for careers in the food and fiber industry. To receive credit for science, students must meet the 40% laboratory and fieldwork requirement.

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES (819)

(PRINAFNR) PEIMS Number: 13000200

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: None

DESCRIPTION: This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations for careers in agriculture.

WILDLIFE, FISHERIES, AND ECOLOGY MANAGEMENT (799)

(WFECGT) PEIMS Number: 13001500

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: None

DESCRIPTION: This course examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices.

HORTICULTURE SCIENCE

(HORTSCI) PEIMS Number: 13002000

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: None

DESCRIPTION: This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.

LIVESTOCK PRODUCTION (821)

(LIVERPROD) PEIMS Number: 13000300

½ Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: None

DESCRIPTION: In this course students will 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. Animal species to be addressed in this course may include, but are not limited to, beef cattle, swine, sheep, goats, and poultry.

SMALL ANIMAL MANAGEMENT (820)

(SMANIMGT) PEIMS Number: 13000400

½ Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: None

DESCRIPTION: Students will acquire knowledge and skills related to animal systems. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

VETERINARY MEDICAL APPLICATIONS

(VETMEDAP) PEIMS Number: 13000600

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: None

DESCRIPTION: In this course students will acquire technical knowledge and skills related to animal systems and the workplace. Topics in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

WELDING (824)

(WELD) PEIMS Number: 13032300

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Recommended prerequisite- Algebra 1

DESCRIPTION: Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES (822)

(AGMECHMT) PEIMS Number: 13002200

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: None

DESCRIPTION: 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.

AGRICULTURAL POWER SYSTEMS

(AGPOWSYS) PEIMS Number: 13002400

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: None

DESCRIPTION: This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery.

PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES

(PRACAFNR) PEIMS Number: 13002500

2-3 Credits

GRADE PLACEMENT: 11-12

PREREQUISITE: Minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster.

DESCRIPTION: Designed to give students supervised practical application of knowledge and skills in a variety of locations appropriate to the nature and level of experience.

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE (608)

(PRINBMF) PEIMS Number: 13011200

1 Credit

GRADE PLACEMENT: 9-11

PREREQUISITE: None

DESCRIPTION: 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. Students reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

ENTREPRENEURSHIP

(ENTREP) PEIMS Number: 13034400

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Recommended – Principles of Business, Marketing, and Finance

DESCRIPTION: Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

BUSINESS INFORMATION MANAGEMENT (609)

(BUSIM1) PEIMS Number: 1301140

1 Credit

PREREQUISITE: None

DESCRIPTION: Students implement personal and interpersonal skills to strengthen individual performance in the workplace and 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.

BUSINESS MANAGEMENT (610)

(BUSMGT) PEIMS Number: 13012100

1 Credit

PREREQUISITE: None

DESCRIPTION: Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge to make appropriate management decisions.

BUSINESS LAW

(BUSLAW) PEIMS Number: 13011700

1 Credit

GRADE PLACEMENT: 11-12

PREREQUISITE: None

DESCRIPTION: Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment, and real property. Students apply technical skills to address business applications of contemporary legal issues.

PRINCIPLES OF HUMAN SERVICES (848)

(PRINHUSR) PEIMS Number: 13024200

1 Credit

GRADE PLACEMENT: 9-12

PREREQUISITE: None

DESCRIPTION: 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 (846)

(FAMCOSRV) PEIMS Number: 13024900

½ Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Recommended – Principles of Human Services

DESCRIPTION: This laboratory-based course is designed to involve students in realistic and meaningful community-based activities through direct service experiences. Students are provided opportunities to interact 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.

DOLLARS AND SENSE (845)

(DOLLARSE) PEIMS Number: 13024300

½ Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Recommended – Principles of Human Services

DESCRIPTION: This course focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers. Students are encouraged to participate in career and technical student organizations and other leadership organizations.

LIFETIME NUTRITION AND WELLNESS (844)

(LNURTWEL) PEIMS Number: 13024500

1 Credit

GRADE PLACEMENT: 10-12

PREREQUISITE: Recommended – Principles of Human Services

DESCRIPTION: This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular activities.

CULINARY ARTS (847)

(CULARTS) PEIMS Number: 13022600

2 Credits

GRADE PLACEMENT: 10-12

PREREQUISITE: Recommended – Lifetime Nutrition and Wellness

DESCRIPTION: 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 a national sanitation certificate, 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.

PRACTICUM IN CULINARY ARTS (849)

(PRACCUL) PEIMS Number: 13022700

2 Credits

GRADE PLACEMENT: 11-12

PREREQUISITE: Recommended – Culinary Arts

DESCRIPTION: This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING

(INPREDTR) PEIMS Number: 13014400

1 Credit

GRADE PLACEMENT: 11-12

PREREQUISITE: Recommended – Principles of Human Services

DESCRIPTION: This is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge or early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

LOCAL

OFFICE WORK SKILLS/TEACHER AIDE (998/999)

½ Credit (Local credit only)

GRADE PLACEMENT: 12

PREREQUISITE: Good attendance record, principal, teacher, or counselor approval

DESCRIPTION: This course is designed to give work experience to students as campus office, administration office, teacher, or library aides. Students will be graded on attendance, attitude, and quality of work habits.

TEXAS ASSESSMENT OF KNOWLEDGE AND SKILLS REMEDIATION

ENGLISH (996)

MATH (997)

SCIENCE (998)

1 Credit (Local credit only)

GRADE PLACEMENT: 9-12

PREREQUISITE: Need to master any part (ELA, Mathematics, Science, Social Studies) of the TAKS test.

DESCRIPTION: This course is designed to focus on the knowledge and skills needed for success on the TAKS. Students will receive drill practice opportunities over the objectives that were not mastered on their last TAKS examination. All objectives for that section will be reviewed with special emphasis on the identified objectives. The student will also develop their test-taking strategies, test-preparation techniques, and learn how to reduce test anxiety.

