Bandera High School

COURSE SELECTION GUIDE

2018-2019

Dear Bandera High School Student: Please use this guide to assist you in making course selection choices for the 2018-2019 school year. Remember to take into consideration your four year plan and what you plan to do after high school. Please share this information with your parents/guardians so that they may also have involvement in your course selection experience. See a Counselor for additional questions regarding course selection. Also, your classroom teachers serve as an excellent resource for advising you on suggested courses for next year in their content areas.

Included are the current graduation requirements (Foundation Plan and Foundation Plan with Endorsements). Also, course descriptions for each department are included.

STATE GRADUATION PLANS FOR THE CLASS OF 2018 AND BEYOND

Foundation Program	Foundation Program with Endorsement
4 Credits English English 1, English 2, English 3, Advanced English Class	4 Credits English English 1, English 2, English 3, Advanced English Class
3 Credits Math Algebra I, Geometry, Advanced Math Class	4 Credits Math Algebra I, Geometry, Advanced Math Class, 2nd Advanced Math Class
3 Credits Science Biology, IPC or Advanced Science Class, Advanced Science Class	4 Credits of Science Biology, IPC or Advanced Science Class, Advanced Science Class, 2nd Advanced Science Class
3 Credits of Social Studies W. Geography or W. History, US History, Government, Economics	3 Credits of Social Studies W. Geography or W. History, US History, Government, Economics
2 Credits Languages other than English (LOTE) 2 Credits in the same LOTE or 2 Computer Science	2 Credits Languages other than English (LOTE) 2 Credits in the same LOTE or 2 Computer Science
1 Credit Physical Education	1 Credit Physical Education
1 Credit Fine Arts	1 Credit Fine Arts
5 Credits Electives	7 Credits Elective
Total=22 Credits	Total=26 Credits
(The Foundation Program is available after the sophomore year and only with parent permission and a meeting with the guidance counselor.)	(Distinguished Level of Achievement requires an Endorsement and Algebra2.)

Endorsements

With the new graduation requirements approved by House Bill 5 and the Texas State Board of Education, students have more choices in course work that lead to a high school diploma. All students MUST select an Endorsement area prior to entering their 9th grade year. In Bandera ISD, this will be accomplished during their course selection period taking place in February during their 8th grade year. Over the course of a student's high school career, they can elect to change Endorsements. There are five Endorsement areas in which students may choose. The Endorsement choices are:

- Arts & Humanities
- Business and Industry
- Public Service
- S.T.E.M. (Math or Science)
- Multidisciplinary Studies

Example: A student who chooses an Endorsement in Business and Industry in the Culinary Arts program of study. As part of the Foundation Program with Endorsement required course work, the courses that the student will take to satisfy the Endorsement include Principles of Hospitality and Tourism, Introduction to Culinary Arts, Culinary Arts 1, and Culinary Arts 2.

The pages that follow are course programs of study in which students may choose to earn an Endorsement. Pathways may change as the state of Texas makes annual revisions to courses and course standards.

Endorsement Course Sequences

Select the endorsement in which you are interested. The coherent course sequences are listed on the next pages. You must meet prerequisites before enrolling in a course (listed in the course description). **Unless otherwise listed, you will need to complete four credits within the endorsement sequence.**

BISD Endorsement Pathways

Arts & Humanities (Must have a 4th math and 4th science)

- **ART**: Art 1 → Art 2 → Art 3 → Art 4
- **BAND** : Band 1 → Band 2 → Band 3 → Band 4
- **CHOIR**: Choir 1 → Choir 2 → Choir 3 → Choir 4
- **SPANISH**: Spanish 1 → Spanish 2 → Spanish 3 → Spanish 4
- **THEATRE**: Theater 1 → Theater 2 → Theater 3 → Theater 4
- **COMBINATION**: By earning 4 credits from 2 areas above.

Business & Industry (Must have a 4th math and 4th science)

- **Agriculture, Food, And Natural Resources (Choose courses to equal 4 credits)**
  - Principles of Ag, Food, and Natural Resources → Livestock Production → Small Animal Management(1/2)
  - Equine Science(1/2) → Veterinary Medical Applications → Advanced Animal Science →
  - Professional Standards in Agribusiness(1/2) → Professional Communications(1/2) → Food Processing →
  - Wildlife, Fisheries & Ecology → Agribusiness Management and Marketing → Principles of Floral Design
- **Architecture and Construction (Choose courses to equal 4 credits)**
  - Ag. Mechanics and Metal Tech → Ag. Structures Design and Fabrication → Ag. Power Systems (2)
    Construction Tech (2)
- **Business (Choose courses to equal 4 credits)**
  - Business Information Management 1 → Business Information Management 2 → Money Matters → Web Technologies
  - Principles of Business Marketing and Finance → Accounting 1 → Accounting 2
  - Problems and Solutions 1 Dual Credit → Problems and Solutions 2 Dual Credit
- **Culinary Arts (Choose courses to equal 4 credits)**
  - Principles of Hospitality and Tourism → Intro to Culinary Arts → Culinary Arts 1 (2) → Culinary Arts 2 (2)
- **English (Must have English IV and 3 courses in one area)**
  - Debate 1 → Debate 2 → Debate 3
  - Journalism News 1 → Journalism News 2 → Journalism News 3
  - Yearbook 1 → Yearbook 2 → Yearbook 3 → Yearbook 4
- **Technology Applications (Choose courses to equal 4 credits)**
  - Web Technologies → Graphic Design → Computer Science 1 → Computer Science 2

Public Service (Must have a 4th math and 4th science)

- **Education and Training (Choose courses to equal 4 credits)**
  - Principles of Education and Training → Human Growth and Development
  - Instructional Practices in Education & Training 1 (2) → Practicum In Education & Training 2 (2)

STEM (Must take Algebra II, Chemistry and Physics)

- **Math (Must select 2 courses)**
  - Precalculus → Precalculus DC → AP Calculus → Advanced Quantitative Reasoning → AP Statistics
    Independent Studies in Mathematics (College Algebra) DC
- **Science (Must select 2 courses)**
  - Enviromental Systems → AP/DC Biology → AP Chemistry → AP/DC Physics → Advanced Animal Science → Anatomy & Physiology

Multidisciplinary Studies (Must have a 4th math and 4th science)

- **Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics.**
- **Four credits in advanced placement or dual credit selected from English, math, science, social studies, economics, languages other than English or fines arts.**

English Language Arts and Related Electives

1013 *English 1* *Grade: 9 Credit: 1.0*

Prerequisite: None

This course is a study of literature and language. Critical thinking skills are emphasizes with literary readings providing models for analysis, discussion, and writing. Composition includes a study of the multi-paragraph essay with emphasis on exposition, narration, literary analysis, and research skills.

1001 *English 1 Pre-AP* *Grade: 9 Credit: 1.0*

Prerequisite: Completion of Summer Assignment

This course is a study of literature and language. Critical thinking skills and analysis are emphasized in both reading and composition to begin preparing students for the Advanced Placement Test.

1023 *English 2* *Grade: 10 Credit: 1.0*

Prerequisite: English 1

This course is a study of world literature and language. The relationship between historical events and their influence on literary movements, types, and techniques are emphasized. Critical thinking skills are emphasized with literary readings providing models for analysis, discussion, and writing. Composition includes a study of the multi-paragraph essay with emphasis on exposition, narration, persuasion, literary analysis, and research skills.

1002 *English 2 Pre-AP* *Grade: 10 Credit: 1.0*

Prerequisite: English 1 and Completion of Summer Assignment

This course is a study of literature and language. Critical thinking skills and analysis are emphasized in both reading and composition to begin preparing students for the Advanced Placement Test.

1033 *English 3* *Grade:11 Credit: 1.0*

Prerequisite: English 2

This course is a study of American literature from its colonial roots through modern works. The relationships between historical events and their influence on literary movements, types, and techniques are emphasized. Composition includes a study of the multi-paragraph essay with emphasis on exposition, narration, persuasion, literary analysis, rhetorical analysis, and research skills.

1003 *English 3 (AP English Language)* *Grade:11 Credit: 1.0*

Prerequisite: English 2 and Completion of Summer Assignment

This college prep course emphasizes preparation for the Advanced Placement English Language Exam, while exploring the historical development of American literature and rhetoric. Extensive reading and writing , especially timed writing, are an integral part of this course.

1006 English 3 DC *Grade: 11 and 12 Credit: 1.0*

Prerequisite: English 2, Approved Dual Credit Application and Qualifying Exam Scores (TSI Test)

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Students will earn high school credit as well as college credit in

English 1301 and English 1302. Students must meet all dual credit admissions requirements as set by our cooperating college. (San Antonio College). Students will earn 3 college semester hours in the fall and 3 college semester hours in the spring.

1043 *English 4* *Grade: 12 Credit: 1.0*

Prerequisite: English 3

This course is a study of British literature from its Anglo-Saxon foundation through the modern period. The relationship between historical events and their influence on literary movements, types, and techniques are emphasized. Composition includes a study of the multi-paragraph essay with emphasis on exposition, narration, persuasion, literary analysis, rhetorical analysis, and research skills.

1004 *English 4 (AP English Literature)* *Grade: 12 Credit: 1.0*

Prerequisite: English 3 and Completion of Summer Assignment

This college prep course emphasizes preparation for the Advanced Placement English Literature Exam while focusing on characteristics of works from the Anglo Saxon and to the Modern period. Extensive reading and writing, especially timed writing, are an integral part of this course. A literary research paper is required.

1005 English 4 DC *Grade: 11 and 12 Credit: 1.0*

Prerequisite: English 3, Approved Dual Credit Application and Qualifying Exam Scores (TSI Test)

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Students will earn high school credit as well as college credit in English 1301 and English 1302. Students must meet all dual credit admissions requirements as set by our cooperating college. (San Antonio College). Students will earn 3 college semester hours in the fall and 3 college semester hours in the spring.

1107 English Language College Prep *Grade: 12 Credit: 1.0*

Prerequisite: English 3

In this college preparatory course, students improve their reading and writing skills through engagement with a variety of texts across content areas and genres. As a result, students develop and express ideas clearly and effectively to communicate with different audiences for various purposes and occasions. Students must pass with an average grade of 75 or better on the three minimum essays and the comprehensive portfolio assessment in order to be considered TSI exempt for Alamo Colleges and UTSA. This course is intended to build the foundation for the study of Freshman Composition.

1103 Rebels & Romantics *Grade: 12 Credit: 1.0*

Prerequisite: English 3

Where does one does one draw the line between short story and novellas, or ballad and rap. What shapes the forms of fiction and poetry? Then explore the forces of good and evil through the lenses of romanticism, transcendentalism, and gothic writings from around the globe.

1042 Business English *Grade: 12 Credit: 1.0*
Prerequisite: English 3

Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions. The Business Management and Administration Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

1111 Science Fiction *Grade: 12 Credit: 1.0*
Prerequisite: English 3

Explore classic to contemporary readings in the genre from fantasy driven to futuristic dreaming. Learn how a pop and pulp culture came to life and continues to forge ahead where no man has gone before.

1049 Reel Literature *Grade: 12 Credit: 1.0*
Prerequisite: English 3

Examine how producers convert the page to the stage in cinematic interpretations of literary classics. Learn the basics of film study for application and production.

1109 Literature of War *Grade: 12 Credit: 1.0*
Prerequisite: English 3

A course which offers an in-depth exploration of literature of war across the American & British timelines using a variety of medias to analyze the effects of war. Embrace readings from the face that launched a thousand ships to the war to end all wars. How was the world shaped and reshaped by conflicts, and what happened after the disaster? Students will learn how to incorporate rhetorical elements in reading, writing, conventions, research, and listening/speaking in the process of both studying professional works as well as creating original works. Students will be expected to work independently at analyzing literature.

1105 Creative Writing *Grade: 10-12 Credit: 0.5*
Prerequisite: Grade Level Requirement

Explore poetic license via not just poetry, but also narrative nonfiction and original short stories. This writing course will primarily focus on the craft and devices of English language usage culminating in a writing portfolio and presentation.

1102 English Elective Courses: 10th-12thTest Prep *Grade: 10-12 Credit: 0.5*
Prerequisite: None (Local Course), Grade Level Requirement

This course is designed for upperclassmen looking for assistance with state and standardized testing- from EOC courses to ACT & SAT prep, focusing on writing and vocabulary. This course is offered in addition to your regular core English class in order to provide study skills and additional practice and assistance to enhance testing strengths and strengthen testing weaknesses. ELL/ESL students may also enroll in this course for additional language support.

1800 Journalism I *Grade: 9-12 Credit: 1.0*
Prerequisite: None

This course is geared to the highly motivated student who desires a firm background in journalistic technique. This course covers the essential ingredients of newspaper writing including: news stories, feature, editorials, and headlines. This course will also stress the techniques of observation, interviewing, reporting, and ethics in the media. In addition, proofreading, editing, and newspaper layout will be covered.

1815 - 1817 Advanced Journalism: (Yeabook 1,2 and III)Grade Placement 10-12 Credit: 1.0
Prerequisite: Journalism 1 and Teacher Approval

Students will be given challenging, real world projects and rigorous assignments typical of the graphic design and publishing industries. High quality work is expected and must meet standards specified during instruction. Classroom activities will include reading, research, projects, and problem solving. Students will often work in teams, but will be expected to complete individual assignments in relation to the team's work. Assessment methods will include written exams, tests, and quizzes; reading assignments; and projects. The students will learn how to use the online yearbook production program.

- Students will be responsible for the **design** (production ladder, grid and modular design, font/color selection), **writing** (copy, captions, headlines, editing), **photography** (periodic after-school commitment required, quantity/quality of photos, basic photo editing skills), **sales** (target market, advertising, promotional material), and **end-of-year distribution** of the finished yearbook.

Speech

1600-1603 Debate Grade:9-12 Credit:1.0
Prerequisite: Must attend Debate Summer Camp and Theatre Director's Approval

The preparation and delivery of debate arguments provides students with the opportunity to think critically, develop academic research skills, improve communication abilities, solve problems creatively, and increase self-confidence. It is a competitive course and students are required to attend two tournaments per semester. It also requires some supplies to be purchased. There are summer research assignments and a day camp in August.

Mathematics

2210 Algebra 1 Grade: 9 Credit: 1.0
Prerequisite: Grade 8 math or equivalent

Algebra 1 is designed to expand the basic arithmetic skills to a more abstract level required for advanced mathematics. Topics studied includes real number operations, function concepts, rational and polynomial concepts, linear functions, inequalities with one or two variables, graphs in a plane, square roots, and quadratic functions.

2310 Geometry Grades:9-12 Credit: 1.0
2312 Geometry PAP Grades:9-12 Credit:1.0
Prerequisite: Algebra 1

This course provides a general study of plane and solid geometry. Techniques used in deductive reasoning will be introduced. Topics include Geometric properties, postulates and theorems, triangles, polygons, circles, geometric formulas, constructions, coordinate geometry, and transformations.

2400 Mathematical Models with Applications *Grades: 10-12 Credit:1.0*

Prerequisite: Algebra 1

Recommended Prerequisite: Geometry

Mathematical Models with Applications combines algebraic, geometric, and graphical reasoning to model and solve real -life applied problems involving money, data, chance, patterns, music, design, and science.

2350 Advanced Quantitative Reasoning (AQR) *Grades: 11-12 Credit:1.0*

Prerequisite: Algebra 1, Geometry, and Algebra 2

This course builds upon the foundations of students' mathematical experiences. It uses the analysis of information using statistical methods and probability, modeling change and mathematical relationships, and spatial and geometric modeling for mathematical reasoning. Students learn to become critical consumers of real-world quantitative data, knowledgeable problem solvers who use logical reasoning and mathematical thinkers who can use their quantitative skills to solve authentic problems.

2500 Algebra 2 *Grades: 10-12 Credit:1.0*

2225 Algebra 2 PAP *Grades:10-12 Credit:1.0*

Prerequisite: Algebra 1

Recommended Prerequisite: Geometry

Algebra 2 is designed to increase skills in algebraic operations. Studies include the complex number system, higher-degree polynomials, and exponential and logarithmic functions, and second-degree equations, systems of linear equations, sequence and series, and application of algebraic skills through stated problems.

2550 College Algebra Dual Credit *Grades: 11-12 Credit:1.0*

Prerequisite: Algebra 1, Geometry, Algebra 2, Approved Dual Credit Application and qualifying exam scores (TSI)

This dual credit math course allows a student college credit as well as high school credit. This course covers the 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. This course fulfills the Mathematics foundational component area of the core and addresses the following required objectives: Critical Thinking, Communication, and Empirical Quantitative Skills.(College Course Spring: Math 1314 College Algebra-students can earn 3 college credit semester hours.)

2410 Pre-Calculus (PAP) *Grades: 11-12 Credit:1.0*

Prerequisite: Algebra 1, Geometry, and Algebra 2

Topics in this college-preparatory course include functions and their graphs, trigonometric identities and equations, vectors, periodic functions, and trigonometric applications to the sciences. Pre-Calculus reviews and unifies the ideas and skills of algebra, geometry, and trigonometry for analytic applications.

2425 Pre-Calculus Dual Credit *Grades:11-12 Credit:1.0*

Prerequisite: Approved dual credit application and qualifying exam scores (TSI)

This dual credit math course allows a student college credit as well as high school credit. It is taught at college level using college materials. This course provides the student with an understanding of a wide variety of advanced trigonometry and analytic geometry concepts and problem solving methods. (College Course Fall: Math 1414 College Algebra-students can earn 4 college credit semester hours. College Course Spring: Math 2412 Pre-Calculus-students can earn 4 college credit semester hours.)

2420 Calculus AP *Grades: 11-12 Credit:1.0*

Prerequisite: Pre-Calculus or Department Chair Approval

The ability to critically analyze a problem, make assumptions and observations, and drawing conclusions will be emphasized through topics such as functions, limits, derivatives, integrals, and their applications. This course is taught at the college level.

2430 Calculus Dual Credit *Grades: 11-12 Credit:1.0*

Prerequisite: Pre- Calculus DC, Approved Dual Credit Application and qualifying exam scores (TSI)

This dual credit math course allows a student college credit as well as high school credit. This course requires the ability to critically analyze a problem, make assumptions and observations, and drawing conclusions will be emphasized through topics such as functions, limits, derivatives, integrals, and their applications. This course is taught at the college level. (College Course: Math 2413 Calculus- students can earn 4 college credit semester hours.)

2450 Statistics AP/Dual Credit *Grades: 11-12 Credit:1.0*

Prerequisite: Algebra 2 , if taking Dual Credit student must have an Approved Dual Credit Application and qualifying exam scores (TSI)

This is a college level course. If taking the Dual Credit section of this course a student can earn college credit as well as high school credit. The ability to investigate a task, explore data, organize a study, analyze and anticipate patterns, and interpret data will be emphasized through all topics of statistics with an emphasis on the graphing calculator and computer. (College Course: 1442 Statistics - students can earn 4 college credit semester hours.)

1108 College Preparatory Mathematics *Grade: 12 Credit:1.0*

Prerequisite: Algebra 1, Geometry and Math Models or Algebra 2

Topics include real numbers, basic geometry, polynomials, factoring, linear equations, inequalities, quadratic equations, rational expressions, factoring techniques, radicals, algebraic fractions, complex numbers, graphing linear equations and inequalities, quadratic equations, systems of equations, and an introduction to functions. Emphasis is placed on developing the skills necessary to successfully complete an entry-level college mathematics course. Students will be required to solve problems with and without the use of a calculator.

SCIENCE

3110 Biology 1 *Grades: 9-12 Credit:1.0*

Prerequisite: None

Students in Biology study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; plants and the environment. The student will gain experience in manipulating the conditions of a laboratory investigation and in evaluating the applications of biological principles in everyday life.

3112 Biology1 Pre-AP Grades: 9-12 Credit: 1.0

Prerequisite: None

Biology 1 Pre-AP is an intensified study of living organisms. The content is similar to Biology 1 but is more in depth and provides more analysis. The student should be able to critically assess biological information and to formulate bridges between vastly different biological phenomena. The student will study current advances and problems in biology, be able to state an informed opinion and support it with facts.

3005 Integrated Physics and Chemistry (IPC) Grades: 9-10 Credit: 1.0

Prerequisite: None

Integrated Physics and Chemistry (IPC) is a lab-oriented course that introduces basic concepts of physics and chemistry. The two disciplines are integrated in the topics of motion, waves, energy transformation, properties of matter, changes in matter, and solution chemistry. This course serves as a background for subsequent courses in chemistry and physics.

3210 Chemistry1 Grades: 10 -12 Credit: 1.0

Prerequisite: Biology

Chemistry is a course in which students will associate chemical principles to real world experiences. This year long, lab -oriented course will allow students to use scientific inquiry techniques for experimentation, data collection and analysis. To be successful in this course, students will need basic knowledge of algebra, the metric system and measurement conversions, and the periodic table.

3211 Chemistry1Pre-AP Grades:10-12 Credit: 1.0

Prerequisite: Biology

This course is an intensified study of chemical principles. The content is a rigorous curriculum that includes mathematical applications in chemistry and a number of laboratory experiences. It is designed to prepare the student to advance to Chemistry AP. This year long, lab oriented course will allow students to use scientific inquiry techniques for experimentation, data collection and analysis. To be successful in this course, students will need a basic knowledge of algebra, the metric system and measurement conversions, and the periodic table.

3200 AP Chemistry 2 Grades: 11-12 Credit: 1.0

Prerequisite: Biology and Chemistry

AP Chemistry is open to all students who have completed a year of chemistry and wish to take part in a rigorous and academically challenging course. This course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. It is intense and fast paced and will require extra time outside of class studying. As such, the course is suitable for high school students who exhibit high levels of commitment, motivation, and academic maturity. The problem-solving strategies and techniques obtained in this course will prepare college-bound students for career in the sciences, medicine, engineering and other technical areas. Students can also expect laboratory work with a formal lab report.

3115 AP Biology/ 3111 Biology Dual Credit Grades: 11-12 Credit:1.0

Prerequisite: Biology and Chemistry 1, if taking Dual Credit student must have an Approved Dual Credit Application and qualifying exam scores (TSI)

This is a college preparatory science elective that reinforces the concepts of Biology I and introduces population genetics, molecular genetics, recombinant DNA, human genetics, world ecology, evolutionary biology, cell biology, and biochemistry. (College Course Fall: Biology 1406- Biology for Science Majors. Students can earn 4 college credit semester hours. Spring: Biology 1407- Biology for Science Majors 2. Students can earn 4 college credit semester hours.)

3010 Physics *Grades: 11-12 Credit 1.0*
3220 Physics PAP
Prerequisite: Biology, Algebra 1(Algebra 2 Recommended)
Physics 1 is recommended for the college-bound student planning to specialize in any scientific or technical area. This course will explain the relationships between matter and energy. Topics will include; the atom, Motion, Energy & Sound waves, light, and electricity. The general concepts are with mathematical calculations at the Algebra 1 level. This course is mathematics intensive.

3012 AP Physics/ 3009 Physics Dual Credit Grades: 10-12 Credit: 1.0
Prerequisite: Biology and if taking Dual Credit student must have an Approved Dual Credit Application and qualifying exam scores (TSI) and have completed PreCal DC
This is a college level science elective. It is highly recommended that a student have a strong mathematical background. A student taking the dual credit section of this course can earn college credit and high school credit. This course is Algebra based and is the equivalent to a first semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy and power, and mechanical waves and sound. It will also introduce electric circuits. (College Course Spring: Physics 1401-Students can earn 4 college credit semester hours.)

3230 Anatomy and Physiology *Grades: 11-12 Credit:1.0*
Prerequisite: Biology, Algebra 1, Geometry, and either IPC or Chemistry
Anatomy and Physiology is a time intensive course geared for those juniors and seniors interested in pursuing higher education and careers in the medical field or biological fields. This class entails a comprehensive and detailed study of the structures and functions of the human body. The obtainable knowledge in this class will enable students to understand the medical terminology of physicians, to make informed decisions, to enhance their own health and quality of life, and to aid them in making health care decisions for themselves and their families. The laboratory section of the class requires detailed dissection of organs and animals.

9312 Advanced Animal Science *Grades: 11-12 Credit: 1.0*
Prerequisite: Biology , Algebra 1, Geometry, and either IPC or Chemistry and either Small Animal Management, Equine Science, or Livestock Production
To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological aspects of animals science through field and laboratory experiences.

3240 Environmental Science *Grades: 11-12 Credit: 1.0*
Prerequisite: Biology and either IPC, Chemistry, or Physics
The goal of this science course is to provide students with the tools to understand the relationships of the natural world, to identify and analyze environmental problems, both natural and human-made, to evaluate the risks associated with these problems and to examine solutions for resolving and preventing these problems. This course is problem-based with real world connections for today's proactive student.

Social Studies

4010 World Geography *Grades: 9-12 Credit:1.0*

Prerequisite: None

This course is designed to provide an opportunity for students to study the interaction of man and his environment. The study includes current developments around the world, which affect physical and cultural settings. Emphasis is placed on geographical processes, which affect decisions concerning interrelationships among nations, production and distribution of goods, uses and abuses of resources and political and economic conditions.

4050 World History *Grades: 10-12 Credit:1.0*

Prerequisite: None

This course will provide a solid understanding of world history. It will enable students to better understand and evaluate the world and time in which they live by having a fundamental understanding of the past. This course will also cover major events and trends from ancient civilizations to the Cold War era. Within this chronology, this course will look at the history of culture, politics, diplomacy, society, education, economics, and more.

4051 AP World History *Grade: 10 Credit:1.0*

Prerequisite: Summer reading/writing assignment required to take this course.

This is a college-level course designed to teach students how to study world history as an historian would. The AP World History textbook, supplementary readings and tests are all written at the college level. The course content offers a truly global approach to world history: major cultural regions are given roughly equal weight. Students are required to do a great deal of independent learning outside of class; class time is dedicated to developing the analytical and writing skills necessary to succeed on the AP World History exam which is administered every year in May. Students are encouraged to take this exam.

4060 U.S. History *Grade:11 Credit:1.0*

Prerequisite: World Geography or World History

In this course students study the history of the United States since Reconstruction to the present. We will focus on the political, economic, and social events and issues related to a variety of events from industrialization and urbanization to reform movements such as the Civil Rights movement. Students are expected to use critical thinking skills, analyze historical documents, and complete projects detailing important topics in U.S. History.

4061 AP U.S. History *Grade:11 Credit:1.0*

Prerequisite: World Geography or World History - Summer reading/writing assignment required to take this course.

Advanced Placement United States History is designed to offer a college-level experience and training for the AP Exam given each May. Analyzing documents, mastering factual information, and writing critical essays are stressed throughout the course. Emphasis will be placed on key themes mandated by the College Board such as American diversity, American identity, culture, demographic changes, economic transformations, environment, globalization, politics and citizenship, reform, religion, slavery and its legacy, and war and diplomacy.

4030 Government *Grade:12 Credit:0.5*

Prerequisite: World Geography or World History, U.S. History

U.S. Government is designed to introduce students to an overview of U.S. and Texas government according to the guidelines set by the state of Texas. Students will be required to familiarize themselves with the purpose of government, the three branches of government and increase their civic knowledge regarding their rights and responsibilities as citizens.

4036 AP Government *Grade:12 Credit:0.5*

Prerequisite: World Geography or World History, U.S. History

Advanced Placement United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret United States politics and the analysis of specific contemporary examples. It also requires students to familiarize themselves with the various institutions, groups, beliefs, and ideas that constitute our political system. Students are encouraged to take the AP Government exam in May.

4040 Economics *Grade:12 Credit:0.5*

Prerequisite: World Geography or World History, U.S. History

The course is primarily a study of the American free enterprise system from both a micro-economic and macro-economic point of view. Other topics of study include investment, credit, international trade, and the role of government, labor, business, and the consumer in the economy.

4036 AP Macro Economics *Grade: 12 Credit:0.5*

Prerequisite: World Geography or World History, U.S. History

The purpose of an AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Students are encouraged to take the AP Economics exam in May.

4071 Sociology *Grades:11-12 Credit:0.5*

Prerequisite: Grade level requirement, World History or US History

This course will provide the student with a better understanding of his own behavior as well as that of others. This course provides opportunity for the students to study elements of individual and social psychology and how the knowledge and methods of psychologists are applied to the solution of human problems.

4071 Psychology *Grades:11-12 Credit:0.5*

Prerequisite: Grade level requirement, World History or US History

This course will provide the student with a better understanding of his own behavior as well as that of others. This course provides opportunity for the students to study elements of individual and social psychology and how the knowledge and methods of psychologists are applied to the solution of human problems.

4076 AP Psychology *Grade:11-12 Credit:1.0*

Prerequisite: Grade level requirement, World History or US History

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. The aim is to provide a learning experience equivalent to that obtained in most college introductory psychology courses.

Spanish

5010 Spanish 1 *Grades: 9-11 Credit:1.0*

Prerequisite: None

Spanish I is the first course of a recommended two or three year sequence. It is designed to develop the fundamental language skills of listening, speaking, reading and writing. The study of vocabulary and grammar is presented in context, along with the culture of Spanish-speaking people.

5020 Spanish 2 *Grades:9-12 Credit:1.0*

Prerequisite: Spanish 1

Spanish II is the second course of the two year sequence for students. It is a continuation of the development of the fundamental language skills of listening, speaking, reading and writing with some emphasis on vocabulary and grammar. Students continue to study the culture, the people and their customs.

5025 Spanish 2 PAP *Grades:9-12 Credit:1.0*

Prerequisite: Spanish 1

Spanish II Pre-AP is the second course in the sequence of this foreign language. This is a pre-advanced placement course and moves at a faster pace than Spanish 2. Students will continue to refine the four skills of listening, speaking, reading and writing by being exposed to an enriched and accelerated curriculum that emphasizes developing higher level of proficiency and a more comprehensive knowledge of vocabulary and grammar. Students continue to study the culture, the people and their customs.

5030 Spanish 3 *Grades:10-12 Credit:1.0*

Prerequisite: Spanish 1 and Spanish 2

Review of the fundamental communication skills of Spanish I and II, especially listening and speaking but also reading and writing, and study of more advanced language structures. In addition to homework to practice these skills, students will do reading and presentations about the peoples and cultures of Hispanic countries.

5035 Spanish 3 PAP *Grades:10-12 Credit:1.0*

Prerequisite: Spanish 1 and Spanish 2

Spanish III Pre-AP continues the development of proficiency in all four fundamental skills. Although the study of vocabulary and grammar continues, the course concentrates on oral and written communication. The student will read and discuss a variety of cultural and literary selections and will have frequent opportunities to do independent, pair and group work.

5040 Spanish 4 AP *Grades:11-12 Credit:1.0*

Prerequisite: Spanish 1, 2, and 3

Spanish V AP provides the student with an additional year of college preparatory Spanish to further refine the four language skills through a variety of independent, pair and small group activities. A major objective is preparation for the Advanced Placement Language Exam as well as other college/university placement exams.

5050 Spanish 5 AP *Grades: 11-12 Credit:1.0*

Prerequisite: Spanish 1, 2, 3, 4

Spanish V AP provides the student with an additional year of college preparatory Spanish to further refine the four language skills through a variety of independent, pair and small group activities. A major objective is preparation for the Advanced Placement Language Exam as well as other college/university placement exams.

Fine Arts

7010 Art *Grades:9-12 Credit:1.0*

Prerequisite: None

This is an introductory course for all visual arts and prerequisite for all other art classes. This course is an introduction to the basic elements and principles of design, and materials of visual art. Students express their thoughts and ideas creatively while fostering reflective thinking and developing disciplined effort and problem-solving skills.

7022 Drawing 2 *Grades: 10-12 Credit:1.0*

7042 Painting 2

7032 Sculpture 2

Prerequisite: Art 1

Advanced level classes are designed for students who want to develop a more focused instruction in drawing, painting, or sculpture. The students are expected to have an understanding of the basic elements and principles of design. They will further explore technique and application of media and learn the benefits of critique and critique etiquette. Students will begin to study artists and artistic movements within culture. The Art II student is expected to produce advanced level artwork, meet specific deadlines, and work on multiple projects in class, as well as independent study.

7023 Drawing 3/ 7024 Drawing 4 *Grades: 11-12 Credit: 1.0*

7043 Painting 3/ 7044 Painting 4

Prerequisite: Art 2 Specific Course Sequence

Advanced level classes are designed for the <u>serious</u> art student who is interested in research-based projects in the areas of drawing or painting. The students should have an advanced knowledge of the elements and principles of design. They will continue to perfect their technique and application of media, critique and critique etiquette. Students will continue to study artists and artistic movements within culture. The Art III student is expected to produce advanced, professional level artwork, meet specific deadlines, and work on multiple projects in class, as well as independent study. They will consider and explore careers in art and create a plan of action necessary to achieve such goals.

7033 Sculpture 3/ 7034 Sculpture 4 *Grades: 11-12 Credit:1.0*

Prerequisite: Art 2 Specific Course Sequence

Advanced level classes are designed for the serious art student who is interested in research-based projects in the area of sculpture. The students should have an advanced knowledge of the elements and principles of design. They will continue to perfect their technique and application of media, critique and critique etiquette. Students will continue to study artists and artistic movements within culture. The Art III student is expected to produce advanced, professional level artwork, meet specific deadlines, and work on multiple projects in class, as well as independent study. They will consider and explore careers in art and create a plan of action necessary to achieve such goals.

9132 Graphic Design *Grades: 10-12 Credit: 1.0*

Prerequisite: Art 1

This course is designed to give students an understanding of and practical application of Adobe InDesign CC, Adobe Illustrator CC, and basic Adobe Photoshop CC techniques. The student will explore the process of creating documents that look like a professionally designed and printed product, which includes inserting: photos, graphics and line drawings for the text copy. Students will produce and will be assessed on many projects that include creating an original layout for a newsletter, catalogue, logos and brochures as well as designing and crafting effective promotional pieces, publications and digital art. Students will write and speak about aesthetic, technical and expressive qualities in a design, learning to critique their own and other's work.

1806 Digital Photography *Grades: 9-12 Credit:1.0*

Prerequisite: None

This course will help the students become well rounded in the fundamentals of digital photography. Digital Photography is a yearlong course that focuses on understanding the basic operations and functions of a digital single lens reflex camera and the manipulation of its settings to achieve a specific result. Students will learn about photographic elements of art and principles of design, composition, and lighting. They will explore the history of photography, learning about its scientific and technological developments, important innovators in the field, and relevance within diverse cultural contexts. Students will write and speak about aesthetic, technical and expressive qualities in a photograph, learning to critique their own and other's work. Students learn image techniques and digital manipulation using Adobe Photoshop and Lightroom, teaching them how to archive, organize and optimize their photographs for print or web purposes.

7210 Band 1 *Grades: 9-12 Credit:1.0*

7220 Band 2

7230 Band 3

7240 Band 4

Prerequisite: Band Director's Approval

The fall semester of this course emphasizes the simultaneous coordination of physical movement with instrumental performance; the spring semester emphasizes concert performance. The organization actively participates in University Interscholastic League contests including Marching, Concert and Sight Reading, and Solo and Ensemble and the Association of Texas Small School Bands all-state band audition process. Other performance opportunities include various community parades, pep rallies, football halftime shows and concerts. Rehearsal begins approximately the first week in August prior to the start of each school year. After marching season, auditions are held for placement into one of two concerts bands. Can count as PE credit –fall semester only.

7555-7558 Jazz Band *Grades: 9-12 Credit:1.0*

Prerequisite: Band Director's Approval

Band program with emphasis on jazz. All students in the program will be a member of the High School Band program except those students playing guitar, bass guitar, and piano. All students must audition with the band staff.

7250-7253 Choir 1-4 *Grades: 9-12 Credit:1.0*

Prerequisite: None

Choir stresses basic skills in proper vocal production and music reading. Membership in this organization provided opportunity for the student to develop personal strengths and positive attitudes toward ensemble participation through the learning of both popular and serious music. Students will perform in several concerts throughout the year.

7260-7263 Chorale Choir 1-4 *Grades: 9-12 Credit:1.0*

Prerequisite: Audition and Choir Director Approval

The students in this organization will be freshmen (with director approval), sophomore, junior, and senior girls. Membership in this organization is gained only through an audition process.

7245-7248 Tenor Choir *Grades: 9-12 Credit:1.0*

Prerequisite: Choir Director's Approval

Tenor Choir will be for High School male students who are serious about music and desire to compete.

7255-7258 Jazz Choir 1-4 *Grades: 9-12 Credit:1.0*

Prerequisite: Audition and Choir Director's Approval

Jazz Choir is a small group choir made up of male and female students who would perform Jazz/Pop music alone and with the Jazz Band. Membership in this group is gained only through an audition process.

7446 Applied Music Guitar *Grades: 9-12 Credit:1.0*

Prerequisite: None

Class will cover Basic Guitar: Notes, chords in 1st position, and music reading. Not a performance class. Size of class is limited. This is a one semester class, taken either in the fall or spring.

7446 Music Appreciation *Grades: 9-12 Credit:1.0*

Prerequisite: None

Learn about the wide variety of music in our world. Study about composers and their works, music of other cultures, and the various forms and styles of American music, including serious composition, the American musical, jazz, and rock. This is a one semester class, taken either in the fall or spring.

7449 Piano *Grades: 9-12 Credit:1.0*

Prerequisite: None

A beginner level course designed to teach the basic music theory concepts and fundamentals needed to perform on the piano. It will increase musical understanding beyond just reading notes by teaching students a vocabulary of chords and keys, accompaniment patterns, and improvisational techniques. Students will also have the opportunity to participate in solo as well as ensemble playing. Students will develop good practice habits, and learn techniques to increase the muscular agility and flexibility of their hands. We will delve into music at its source, find out how music is constructed, and discover the composers and history behind the music. Through the use of basic computer music programs students will have the opportunity to explore basic music technology and its applications to composition,

arrangement, and even music recording techniques. At the completion of this course, each student will have learned to play some of the standards of piano repertoire while gaining an understanding of the history and basic theory concepts of music, as well as some experience with music technology.
Instruments: Digital Piano Keyboards and Headphones will be provided by the school to use during class.

9315 Principles of Floral Design *Grades: 10-12 Credit:1.0*

Prerequisite: Grade Level Requirement

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

7110 Theatre Arts *Grades: 9-12 Credit:1.0*

Prerequisite: None

This course presents an overview of theatre arts. The first semester concentrates on performing techniques, improvisations, voice, oral interpretation, play interpretation, structure, and performance. Members of this class will produce a short play that includes all facets of theatre study. The second semester will focus on the historical development of drama and its impact on today's theatre with emphasis on independent student research. Preparation and perfection of duets, improvisations, and interpretation pieces are part of the ongoing performance opportunities this semester. Two main stage performances are available to Theatre I.

7111 Theatre 2 *Grades:10-12 Credit:1.0*

7112 Theatre 3

7114 Theatre 4

Prerequisite: Theatre 1 and Theatre Director's Approval

These are independent study courses that requires teacher approval.

7105-7108 Technical Theatre *Grades: 9-12 Credit:1.0*

Prerequisite: Theatre 1 and Theatre Director's Approval

This course is designed for students who wish to be involved in theatre without actual performance requirements. Technical theatre is a hands-on class where students will learn to build sets and props, paint scenery, create sound tracks and handle lights for theatre productions.

7100-7103 Theatre Production *Grades: 9-12 Credit:1.0*

Prerequisite: Audition, Theatre 1, Theatre Director's Approval

This is an in-depth study of performance theatre covering acting, directing, make-up, costuming, publicity, lighting, and sound. This is an advanced specialization course. The course includes competition one-act play.

Physical Education and Athletics

8101 Independent Sport Boys *Grades:9-12 Credit:1.0*
8201 Independent Sport Girls
Prerequisite: None
PE class where students in individual sports are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sport activities that are enjoyable is a major objective of this course.

8103 Team Sport Boys *Grades: 9-12 Credit:1.0*
8203 Team Sport Girls
Prerequisite: None
PE class Students in team sports are expected to develop health-related fitness and an appreciation for teamwork and fair play. Like the other high school physical education courses, Team Sports is less concerned with the acquisition of physical fitness during the course than reinforcing the concept of incorporating physical activity into a lifestyle beyond high school.

8600 Dance *Grades:9-12 Credit:1.0*
8602-8604 Dance 2-4
Prerequisite: TRY OUT ONLY
This course emphasizes the creative expression of music through coordination of body movements and rhythm. The dance team promotes quality training and education in the field of dance in order to develop character, self-esteem, self-confidence, leadership, and individual responsibility. This organization promotes and maintains school spirit and sportsmanship and provides entertainment in conjunction with the marching band in school and

8301-8304 Boys Athletics *Grades:9-12 Credit:1.0*
Prerequisite: Will need to complete a Physical
Competitive Sports: Numerous athletic programs under UIL affiliation are offered for students in high school. Students who participate in athletics may earn a maximum of two state units and 2 elective units in physical education. Prospective athletes wishing to compete in any sport must have permission from the head coach of the sport of their choice.

8401 -8404 Girls Athletics *Grades:9-12 Credit:1.0*
Prerequisite: Will need to complete a Physical
Competitive Sports: Numerous athletic programs under UIL affiliation are offered for students in high school. Students who participate in athletics may earn a maximum of two state units and 2 elective units in physical education. Prospective athletes wishing to compete in any sport must have permission from the head coach of the sport of their choice.

Health Science

9700 Principles of Health Science *Grades: 10-12 Credit:1.0*

Prerequisite: Grade Level Requirement

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

9706 Health Science *Grades: 11-12 Credit:1.0*

Prerequisite: Principles of Health Science

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning.

Public Service Electives

9201 Principles of Education and Training *Grades:9-12 Credit:1.0*

Prerequisite: None

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

9208 Human Growth and Development *Grades: 10-12 Credit:1.0*

Prerequisite: Principles of Education and Training

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

9500 Instructional Practices *Grades: 11-12 Credit:2.0*

Prerequisite: Principles of Ed and Training, Human Growth and Development

Instructional Practices is a field-based (practicum) 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 of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with
elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

9501 Instructional Practices 2: Practicum in Ed and Training Grades:12 Credit:2.0

Prerequisite: Instructional Practices

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

Business and Industry Electives

Agriculture, Food, and Natural Resources

9302 Livestock Production *Grades: 9-12 Credit:1.0*

Prerequisite: None

To be prepared in careers in the field of animal science, students need to 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, dairy cattle, swine, sheep, goats, and poultry.

9321 Equine Science *Grades: 9-12 Credit:0.5*

Prerequisite: None

To be prepared 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. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

9321 Small Animal Management *Grades: 9-12 Credit: 0.5*

Prerequisite: None

To be prepared 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. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. 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.

9316 Vet Med Application *Grades:11-12 Credit:1.0*

Prerequisite: Grade Level Requirement, Equine Science, Small Animal Management, or Livestock Production

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

9303 Professional Standards in Agribusiness *Grades: 9-12 Credit: 0.5*

Prerequisite: This is a FFA team class that works on competition materials. Students enrolled in this course must be a FFA member and compete in at least one FFA Fall LDE and one FFA Spring CDE. (Offered the first semester only. Second semester is Professional Communications.)

To be prepared for careers in agribusiness systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness. Students will be required to be in FFA and compete in leadership LDE's and career CDE's.

9308 Professional Communications *Grades: 9-12 Credit:0.5*

Prerequisite: Students enrolled in this course must be a FFA member and compete in at least one FFA Fall LDE and one FFA Spring CDE. (Offered the second semester only. First semester is Professional Standards in Agribusiness.)

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the 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.

9314 Food Processing *Grades: 10-12 Credit:1.0*

Prerequisite: Grade Level Requirement

Food Processing focuses on the food processing industry with special emphasis on the handling, processing, and marketing of food products. To prepare for careers in food products and processing systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources and the workplace. Exploration of the food products industry intended to illustrate the diversity of animal products, food product production practices and general food science principles. Emphasis is placed on student's knowledge of general food science practices and animal derived products.

9317 Wildlife, Fisheries, and Ecology Management *Grades: 9-12 Credit:1.0*

Prerequisite: None

To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success,

students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices.

Architecture and Construction

9305 Agricultural Mechanics and Metal Technology *Grades: 9-12 Credit:1.0*

Prerequisite: None

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

9306 Ag Structures Design and Fabrication *Grades: 10-12 Credit: 1.0*

Prerequisite: Ag Mechanics and Metal Technology

To be prepared for careers in mechanized agriculture and technical systems, students attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

9307 Agricultural Power Systems *Grades: 11-12 Credit: 2.0*

Prerequisite: Ag Mech and Metal Technology and Ag Structures Design and Fabrication

To be prepared for careers in agricultural power, structural, and technical systems, students should attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students should have opportunities to learn, reinforce, apply, and transfer their knowledge and technical skills in a variety of settings. 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.

9402 Construction Technology *Grades: 11-12 Credit:2.0*

Prerequisite: Ag Structures Design and Fabrication

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

Business

9100 Business Information Management *Grades: 9-12 Credit:1.0*

Prerequisite: None

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

9105 Business Information Management 2 *Grades: 10-12 Credit:1.0*

Prerequisite: BIM

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

9106 Problems and Solutions 1 Dual Credit *Grades: 10-12 Credit:1.0*

Prerequisite: BIM 1 and Approved Dual Credit Application and qualifying exam scores (TSI)

This course builds on the skills learned in BIM but involves more in-depth projects. Presentation software, spreadsheet, database, telecommunications and desktop publishing concepts and skills are taught on a more advanced level using Microsoft Office, Internet Explorer, Microsoft Publisher or other software. Students will be provided the opportunity to receive Microsoft Certification in Word and PowerPoint. Students focus on decision-making skills, time-management skills, business communication skills and positive work attitude. (College Course Fall: ITSW 1301 -Students can earn 3 college credit hours. College Course Spring: ITSW 1310-Students can earn 3 college credit hours.)

9107 Problems and Solutions 2 Dual Credit *Grades: 11-12 Credit:1.0*

Prerequisite: Problems and Solutions 1 DC and Approved Dual Credit Application and qualifying exam scores (TSI)

This course builds on the skills learned in BIM but involves more in-depth projects. Presentation software, spreadsheet, database, telecommunications and desktop publishing concepts and skills are taught on a more advanced level using Microsoft Office, Internet Explorer, Microsoft Publisher or other software. Students will be provided the opportunity to receive Microsoft Certification in Excel and Access. Students focus on decision-making skills, time-management skills, business communication skills and positive work attitudes. (College Course Fall: ITSW 1304- Students can earn 3 college semester hours. College Course Spring: ITSW 1307-Students can earn 3 college semester hours.)

9134 Web Technologies *Grades: 10-12 Credit:1.0*

Prerequisite: BIM 1

The technology applications curriculum has six strands based on the National Educational Technology Standards for Students (NETS•S) and performance indicators developed by the International Society for Technology in Education (ISTE): creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts. This is an introductory course in web design.

9137 Money Matters *Grades: 9-12 Credit:1.0*

Prerequisite: None

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation risk management, retirement planning, and estate planning.

9135 Principles of Business Marketing and Finance *Grades: 9-12 Credit:1.0*

Prerequisite: None

In Principles of Business, Marketing, and Finance, 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.

9125 Accounting 1 *Grades:10-12*

Credit:1.0 Prerequisite: None

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making.

9126 Accounting 2 *Grades:11-12 Credit:1.0*

Prerequisite: Accounting 1

Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision-making.

9130 AP Computer Science *Grades: 10-12 Credit:1.0*

Prerequisite: Algebra 1

Through the study of technology applications foundations, including technology-related terms, concepts, and *data input strategies; students learn to make informed decisions about technologies and their applications.* The efficient acquisition of information includes the identification of task requirements; the plans for using search strategies; and the use of technology to access, analyze, and evaluate the acquired information. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results. Students communicate information in different formats and to diverse audiences. A variety of technologies will be used. Students will analyze and evaluate the results. At this time the preferred language for instruction in this course is JAVA.

9131 AP Computer Science 2 *Grades: 11-12 Credit:1.0*

Prerequisite: AP Computer Science 1

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

Culinary Arts

9202 Principles of Hospitality and Tourism *Grades:9-12 Credit:1.0*

Prerequisite: None

Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

9209 Introduction to Culinary Arts *Grades: 10-12 Credit:1.0*

Prerequisite: Principles of Hospitality and Tourism Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the foodservice industry. This course is offered as a classroom and laboratory-based course.

9240 Culinary Arts 1 *Grades: 11-12 Credit:2.0*

Prerequisite: Principles of Hospitality and Tourism, Introduction to Culinary Arts

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

9241 Culinary Arts 2 *Grade11-12 Credit:2.0*

Prerequisite: Culinary Arts 1

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.

Co-Operative Work Program

9600 Career Prep 1 *Grades:11-12 Credit:3.0*

9601 Career Prep 2

Prerequisite: 16 years of age or older, must maintain employment throughout school year at an approved training station within SCUCISD boundaries for 15+ hours per week (at least 10 hours must be worked Monday – Friday.)

Are you ready to get out of school and get to work? This class is a combination of classroom technical instruction and on-the-job training in an approved training area. These training areas may include Agriculture, Business Education, Marketing, Family Consumer Science, Law Enforcement and Health Care Science. Students will learn employability skills, job interviewing techniques, communication skills, financial and budgeting activities, human relations and will develop a personal portfolio. CareerSafe OSHA Certification will be completed during this course.

Academic Decathlon

1222 Academic Decathlon ***Grades:9-12 Credit:1.0***

Prerequisite: None

The academic decathlon course is a thematic course of study that changes from year to year. Students are provided the opportunity to learn specific materials about the topic of the year. Recent years, have had topics such as India, World War II, Africa, and Innovations in Technology. The students learn to excel academically through team competition. The decathlon students will engage in challenging multidisciplinary studies, develop study skills, as well as speaking and interview skills. Although the class is centered around a theme, it is also the proving ground for those that are interested in competing in the United Stated Academic Decathlon contests. A team will be selected of the best students to represent the school in competition. A strong work ethic is essential for success in this class.

Bandera ISD Dual-Credit Equivalent Table

Alamo Colleges Course #	Alamo College's Course Title	College Credit (Semester Hours)	BISD High School Course Title	H.S. Credit
Math 1414	College Algebra	4	PreCal D.C. (Fall Sem)	0.5
Math 2412	Pre Calculus	4	PreCal D.C. (Spring Sem)	0.5
Math 2413	Calculus	4	Calculus D.C.	1
Math 1442	Statistics	4	Statistics AP/DC	1
Bio 1406	Biology for Science Majors 1	4	Biology 2 D.C. (Fall Sem)	0.5
Bio 1407	Biology For Science Majors 2	4	Biology 2 D.C. (Spring Sem)	0.5
ITSW 1301	Intro to Word Processing	3	Problems & Solutions 1 D.C. (Fall Sem)	0.5
ITSW 1310	Intro to Presentation Graphics	3	Problems & Solutions 1 D.C. (Spring Sem)	0.5
ITSW 1304	Intro to Spreadsheet Applications	3	Problems & Solutions 2 D.C. (Fall Sem)	0.5
ITSW 1307	Intro to Database Management	3	Problems & Solutions 2 D.C. (Spring Sem)	0.5
Math 1314	College Algebra	3	Independent Study in math D.C. (Spring Sem)	1
English 1301 English 1302	Composition 1 Composition 2	3 3	English 4 DC Fall English 4 DC Spring	0.5 0.5
Physics 1401	Physics	4	Physics D.C. (Spring Sem)	0.5