Alpine ISD

Alpine High School Course Selection Guide

Alpine Fightin' Bucks

Revised 7/17/2018

2018-2019

300 East Hendryx Avenue Alpine, Texas

Alpine High School Administration

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“Investing in our Future”

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Alpine High School reserves the right to revise course offerings.

Side-by-Side Comparison: Graduation Program Options to be Implemented Beginning in 2015-2016

Discipline	Foundation HSP (All students entering HS 2015)	*MHSP	*RHSP	*DAP

English Language Arts	**Four credits:** English I English II English III An advanced English course	**Four credits:** English I English II English III English IV or approved alternate course	**Four credits:** • English I • English II • English III • English IV	**Four credits:** • English I • English II • English III • English IV
Mathematics	**Three credits:** Algebra I Geometry An advanced math course	**Three credits:** Algebra I Geometry SBOE approved math course	**Four credits:** Algebra I Algebra II Geometry • An additional math credit	**Four credits:** Algebra I Algebra II Geometry An additional math credit
Science	**Three credits:** Biology IPC or an advanced science course An advanced science course	**Two credits:** Biology IPC or Chemistry and Physics (one of the two serves as an academic elective)	**Four credits:** Biology Chemistry Physics An additional science credit	**Four credits:** Biology Chemistry Physics An additional science credit
Social Studies	**Three credits** U.S. History U.S. Government (one half credit) Economics (one-half credit) World History or World Geography	**Three credits:** U.S. History (one credit) U.S. Government (one half credit) Economics (one-half credit) World History (one credit) or World Geography (one credit)	**Four credits:** U.S. History (one credit) U.S. Government (one half credit) Economics (one-half credit) World History (one credit) World Geography (one credit)	**Four credits:** U.S. History (one credit) U.S. Government (one half credit) Economics (one-half credit) World History (one credit) World Geography (one credit)
Physical Education	**One credit**	**One credit**	**One credit**	**One credit**
Languages Other Than English	**Two credits in the same language** Two credits from Computer Science I, II, and III (other substitutions)	**None**	**Two credits in the same language**	**Three credits in the same language**
Fine Arts	**One credit**	**One credit**	**One credit**	**One credit**
Speech **Health**	**Professional communication (1/2 credit)** ***local requirement*** **Health (1/2 credit)** ***local requirement***	**One-half credit from either of the following:** • Communication Applications • Professional Communications (CTE)	**One-half credit from either of the following:** • Communication Applications • Professional Communications (CTE)	**One-half credit from either of the following:** • Communication Applications • Professional Communications (CTE)
Electives	**Five credits**	**Seven and one half credits (one must be an academic elective)**	**Five and one-half credits**	**Four and one-half credits**
Total Credits	22 (+4 for endorsement = 26 total credits)	22	26	26

Grading and Reporting

Grading guidelines for each grade level or course will be communicated and distributed to students and their parents by the classroom teacher. These guidelines have been reviewed by each applicable curriculum department and have been approved by the campus principal. These guidelines establish the minimum number of assignments, projects, and examinations required for each grading period. In addition, these guidelines establish how the student's

mastery of concepts and achievement will be communicated (i.e., letter grades, numerical averages, checklist of required skills, etc.). Grading guidelines also outline in what circumstances a student will be allowed to redo an assignment or retake an examination for which the student originally made a failing grade. Procedures for a student to follow after an absence will also be addressed.

Attendance

Students must be in attendance a minimum of 90 percent of the days in the course. See the Student Handbook for more information.

Credit By Exam with Prior Instruction

On recommendation of the principal or designee, as applicable, shall have the authority to offer a student the opportunity to demonstrate mastery in a subject or to earn course credit by exam when the student has had prior instruction in a subject and when:

1. The student is enrolling in the district from a non-accredited school
2. The student has failed a subject or course, or
3. The student has earned a passing grade in a subject or course but has failed to earn credit because of excessive absences.

Students must score a grade of 70 or above on the exam to receive credit for the course. Credit by exam with prior instruction opportunities will be made at the discretion of the principal or designee only.

Credit By Exam with No Prior Instruction

Students may request a credit by exam test four times a year. The student must score an 80 percent or higher in order to qualify for credit. Tests used will be developed by Texas Tech University or the University of Texas at Austin only. There will be no cost to the student. The test will be administered by Alpine High School personnel on the Alpine High School campus.

PSAT/NMSQT

The Preliminary Scholastic Aptitude Test and National Merit Scholarship Qualifying Test (PSAT/NMSQT), is a timed test that measures verbal reasoning skills, critical reading skills, math program solving skills and writing skills. AHS students take the PSAT/NMSQT during their sophomore or junior year. To qualify for the National Merit Scholar Scholarships, students must take the test during their junior year. Taking the PSAT/NMSQT gives students an accurate idea of what they may score on the SAT at that time.

TSI-A

The TSI Assessment (Texas Success Initiative) measures reading, English, and mathematic skills to determine students' readiness to enroll and perform in the freshman-level dual credit coursework. This test is required for students, enrolling in dual credit classes, who have not met previous college readiness standards.

ASVAB

The ASVAB (Armed Services Vocational Aptitude Battery) is one of the best aptitude tests available. This test is recommended for any student, but specifically for those considering any branch of the military as a possible career. Taking the test does not commit you to joining the military services. It offers students great information about their abilities.

STAAR/EOC

The STAAR/EOC (State of Texas Assessment of Academic Readiness/End of Course) assessment directly aligns what is tested to what is taught in the subject area. Texas Law requires all students to meet at least the standard of five EOC assessments in order to receive a diploma from a Texas public school. The courses are English Language Arts I, English Language Arts II, Algebra I, Biology, and United States History.

On-Line and Correspondence Courses

Students may take accredited on-line and correspondence coursework for graduation requirements and electives. Courses must be pre-approved by the counselor.

Credit Recovery

Students may take an approved on-line credit recovery course for credit recovery only. Students will not be allowed to utilize the credit recovery program for advancement.

Advanced Placement (AP) Program

The Advanced Placement Program is a nationwide program based on the premise that some students can complete college-level studies while still in high school. In May, the College Board gives examinations in AP subjects. Based on the examination performance, students may receive advanced standing in college courses or credit toward graduation from college. Depending upon the college or university scores of three, four or five typically result in awarding of credit for one or more semesters of college level work. Advanced Placement classes are weighted classes. Students will receive an additional ten (10) points the end of the semester average. This numeric change is reflected within the GPA, but does not show on the transcript grade.

Dual Enrollment

You must be a high school junior or senior (exceptions do exist for 9th and 10th grade students who demonstrate outstanding academic performance; you must be recommended by your Principal and approved by the Sul Ross State University Provost)

Meet high school or school district requirements for taking a dual credit class

Requirements include (beginning Spring 2017 and beyond)

2 letters of reference from AHS teachers illustrating students' ability to be successful with college level material

Registered transportation or letter from parent stating the ability to provide daily transportation

Overall GPA of 90 or above

90% or above attendance rate

Students wanting to take College Algebra are required to take Algebra II first

Meet any required course prerequisites

Obtain permission from school and parent to take the course(s)

Must demonstrate college readiness by passing relevant sections of the TSI college readiness assessment test (TSIA), if not otherwise exempt:

Exemptions:

ACT - Composite score of 23 (or higher) with a minimum of 19 on the English test shall be exempt for both the reading and writing sections and/or a 19 on the mathematics test shall be exempt for the mathematics section
SAT - A combined critical reading and mathematics score of 1070 with a minimum of 500 on the critical reading test shall be exempt for both reading and writing sections and/or 500 on the mathematics section
STAAR - a minimum score of 2000 on English III EOC exam and/or 4000 on the Algebra II EOC exam. (Good for 5 years)
Minimum TSIA Scores (for all students not exempt and registering for the first time after August 28, 2013): Reading - 351 or higher
Writing - Essay score of 5 **OR** multiple choice score of at least 363 with a minimum essay score of 4
Math - 350 or higher

Core Class Descriptions

English

English/Language Arts I

This course builds upon the students' prior knowledge of grammar, vocabulary, word usage and mechanics of writing. The skills of reading, research, and writing, speaking and listening will be developed. Students will engage in various genres of literature such as novels, short stories, dramas, poetry, informational text and respond through writing.

English/Language Arts II

This course offers a balanced focus on composition and literature. Skill building continues upon students' prior knowledge of grammar, vocabulary, word usage and mechanics of writing. Students write persuasive, critical and multi-paragraph thematic essays and compositions as

well as a research paper. The study of literature encompasses various genres as students develop the skills to determine the author's intent and theme, and recognize the literary elements and purpose employed by the author.

English/Language Arts III
This course continues to develop students' writing skills, emphasizing clear and logical writing organization and vocabulary enrichment. Students will write essays and execute the techniques of writing research papers. Students will read works of American literature, including the genres of poetry, short story, essay, novel, play, and biography. An emphasis will be placed upon literary conventions and stylistic devices. This class will prepare students for the language arts portion of college entrance exams.
Students taking Pre-AP ELA II are required to continue with AP ELA III and AP ELA IV

English/Language Arts IV
This course blends composition and literature into a comprehensive whole as students write critical and comparative analyses of selected literature. Required writing assignments develop and improve critical thinking and analytical skills. Typically, multi-paragraph essays dominate as the form of student composition, but one or more major research papers may also be written.

Practical Writing
The study of writing allows high school students to earn one-half to one credit while developing skills necessary for practical writing. This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, the reading comprehension of informational text, and the effective use of vocabulary. Students are expected to understand the recursive nature of reading and writing. Evaluation of students' own writing as well as the writing of others ensures that students completing this course are able to analyze and evaluate their writing.

AP English Language & Composition
This class is the third in the Advanced Placement (AP) English sequence and is a year-long course. This is a rigorous course designed for students who are college-bound or have exceptional abilities in language arts. The focus of this accelerated course is on writing and American literature. Students are given summer reading assignments which need to be completed prior to the first day of school. Reading lists are available from the instructor or from the Guidance Office in the summer. This course is designed to parallel college-level writing courses, and students are asked to develop critical thinking skills, as well as write numerous compositions of varying lengths during the semester. Students have the option to take the optional Advanced Placement Language and Composition exam at the end of the semester.

AP English Literature & Composition
This class is the fourth in the Advanced Placement (AP) English sequence and is a year-long course. The course prepares students for college-level reading and writing through the study of representative works from world literature. AP English Literature, taught at the college level, is an in-depth study of literature and writing about literature. In May, students may take a nationally standardized test, which, if passed, may result in the granting of college credit for English. Students in AP Literature engage in the careful reading of rich and varied literary works to sharpen awareness of language and understanding of the writer’s craft. Students are also involved in the practice of writing with focus on the critical analysis of literature.

Math

Algebra I

This course includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations. This course will provide students with a basic foundation of algebra skills enabling them to advance to Geometry and Algebra II.

Geometry

This course emphasizes an abstract, formal approach to the study of geometry and includes topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; rules of congruence, similarity, parallelism, and perpendicularity; and rules of angle measurement in triangles including trigonometry, coordinate geometry, and transformational geometry. **Prerequisite: Algebra I**

Math Models with Applications

The desire to achieve educational excellence is the driving force behind the Texas essential knowledge and skills for mathematics, guided by the college and career readiness standards. By embedding statistics, probability, and finance, while focusing on fluency and solid understanding, Texas will lead the way in mathematics education and prepare all Texas students for the challenges they will face in the 21st century.
Prerequisites: Algebra I

Mathematical Applications in Agriculture Food and Natural Resources

Students will be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources.
Prerequisites: Algebra I, Geometry

Algebra II

This course includes the study of field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; an in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents. **Prerequisite: Algebra I, Geometry**

Algebraic Reasoning

In Algebraic Reasoning, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.
Prerequisite: Algebra I, Geometry

Pre-Calculus
This course combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity. **Prerequisite: Algebra I, Algebra II, Geometry**

AP Calculus AB
AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. It introduces the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including anti-derivatives and the definite integral). This course is intended to prepare students for the optional Advanced Placement Exam. **Prerequisite: Algebra II**

Science

Integrated Physics and Chemistry
Physical Science is an introductory study of chemistry and physics. The chemistry portion will cover the physical and chemical properties of matter, its classifications and changes. The physics portion will cover the laws of motion and mechanics and the forms of energy. Throughout the course, scientific process skills and problem solving in a laboratory setting will be emphasized.

Biology
Biology is the study of organisms, the processes that keep them alive, and their interaction with the environment. Topics including cell chemistry, cell biology, genetics, DNA, evolution, ecology, and classification will be covered. Laboratory investigations will be used to develop and reinforce students' understanding of these topics. Biological and current events, career information and personal and societal issues will be presented.

Chemistry
Chemistry is the study of the structure, composition, and physical states of matter, including chemical reactions bonding. Laboratory experiments and demonstrations are used to teach safety procedures, the use of lab equipment, and various experimental techniques. Math is applied in the calculation of chemical quantities. This is a college preparatory course for serious students designed to develop scientifically literate citizens through an understanding of the methods of science and the role of chemistry in society and everyday life. Chemistry is a rigorous course requiring motivation, attention, effort, study time and responsibility.
Prerequisite: Biology and Algebra I

Physics
Physics is the study of matter and energy, and how the two interact. This course requires a strong background in math. Laboratory experiments and demonstrations are used to teach safety procedures, the use of lab equipment, and various experimental techniques. This is a college preparatory course for serious students designed to develop scientifically literate citizens through an understanding of the methods of science and the role of physics in society and everyday life. Physics is a rigorous course requiring motivation, attention, effort, study time and responsibility. **Prerequisite: Chemistry and Algebra II.**

Physics – Advanced Studies/AP Physics 1
AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Class time will be spent primarily in laboratory activities. Students will be required to complete weekly homework and reading assignments. A strong understanding of algebra and geometry, as well a s strong work ethic and an inquiring mind is essential for success in this class. Students will be required to take the AP Physics 1 Test at the end of the school year. This class is designed for college bound students who plan on majoring in science, math, or engineering. **Prerequisite: Physics, Chemistry and Algebra II, and concurrent enrollment or credit for Pre-Calculus or Calculus.**

Environmental Science
Course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. **Prerequisite: Integrated Physics and Chemistry, and Biology**

Anatomy and Physiology
Course is designed to extend the student's knowledge and understanding of the human body in respect to its structure and functions. This course is highly lab-oriented and teaches proper dissection techniques as well as various physiological phenomena. **Prerequisite: IPC, Biology, Chemistry**

Engineering Design and Problem Solving
Course refines and integrates skills learned in previous mathematics and science courses. This course emphasizes solving problems, moving from well-defined towards more open ended, with real world application. Students apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest and an understanding of career opportunities in engineering. **Prerequisite: Geometry, Algebra II, Chemistry, and Physics**

Social Studies

World Geography
In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

World History

Students gain knowledge of significant events and contributions from the prehistory period and early civilizations to the present day, as well as the development of eastern and western cultures.

United States History
A survey of the history of the United States since the era of Reconstruction following the Civil War to the present – focusing on political, economic, and social events related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post-Cold War eras, reform movements (including the progressive and Civil Rights movements). Students will study geographic influences on major historic events and causes and effects of the Great Depression, examine modern Constitutional issues, evaluate the relationship issues, evaluate the relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. The class will spotlight the labor movement, artistic and cultural influences on American history, the impact of technology upon American History and develop the students' use of critical thinking skills to interpret historical methods, points of view, and place events in historical context.

Government
Students participate in an in-depth analysis of concepts issues and problems associated with the structure and function of government and the development of political behaviors and philosophies. Through extensive reading and problem solving activities, civil liberties, and activities of various governmental agencies are examined and evaluated.

Economics
This course emphasizes the United States economy and roles of free enterprise with additional focus on demand, supply, and the market. Money and banking and the consumer in a market economy are emphasized.

Social Studies Advanced Research
Students are required to do in depth research using the National History Day parameters and guidelines to develop either an individual or group project of their choice. Students will develop research skills acting as historians discovering how to uncover primary sources, build historical context and form historical interpretations. They will become experts on their research topics present their research to teachers, students, and historians. Students will compete in the Big Bend Regional History Fair and possibly Texas History Day, the state competition.

Young Leaders for Healthy Change
An introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society.

Additional Requirements

Health Education
The goal of health education is for students to demonstrate an understanding of the components of personal wellness. The health education curriculum is designed to help adolescents develop knowledge, attitudes, and skills to make responsible decisions and act in ways that prevent disease and reduce health related risk behaviors. The curriculum includes content in the areas of alcohol/drug abuse prevention skills, safety and cardiopulmonary resuscitation (CPR), human

growth and development, personal and social development, nutrition and diet control, fitness and mental health and communicable and non-communicable diseases.

Physical Education
The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this class and is exemplified by one of the course objectives.

Professional Communication
Professional communication 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 computers and technology applications, a strong 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 graphics, and conduct internet search.

College Readiness and Study Skills (1/2 credit)
Students acquire techniques for learning from texts, including studying word meanings, identifying and relating key ideas, drawing and supporting inferences, and reviewing study strategies. In all cases, interpretations and understandings will be presented through varying forms, including through use of available technology. Students accomplish many of the objectives through wide reading as well as use of content texts in preparation for postsecondary schooling.

Electives

Sports Medicine (local credit ONLY)
Students will receive a real life experience using basic athletic training techniques.

Athletics
This course includes completive U.I.L. individual and team sports. Fair play and sportsmanship are included. *Students participating in athletics are required to have a physical and to be in the athletic*
Boys- Football, Basketball, Track, Tennis, Golf, Cross Country, Powerlifting, Baseball Girls, Volleyball, Basketball, Track, Tennis, Golf, Cross Country, Powerlifting, Softball

Student Leadership
This class includes all levels of students who wish to improve their leadership skills. It provides an opportunity to incorporate a variety of curriculum into the class and teaches leadership, organization, evaluation of projects, and team building as well as motivation**.**

Office Aide (not for credit)
This course includes training in daily functions of the office to which the student is assigned. It is not recorded on the transcript.

Library Aide (not for credit)
This course includes training in daily functions of the library to which the student is assigned. It is not recorded on the transcript.

Robotics (elective credit ONLY)
Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to components designs in a project based environment. Students will have the opportunity to compete in numerous events.

Foreign Language

Spanish I
The students will be provided with experiences in speaking, reading, writing, and in listening comprehension. Students will develop an appreciation and understanding of the Spanish culture and language. Students must converse in Spanish as they acquire the language.

Spanish II
This course is a continuation of Spanish I. The class will continue working on speaking, listening, reading, and writing skills at a more advanced level. The students must converse in Spanish in this course.

Computer Science I and II
Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students apply technical skills to address business applications of emerging technologies. **Prerequisite: Algebra I**

Endorsements

Business *(Business and Industry)*

Principles of Business, Marketing, and Finance (Freshman)
In this course students gain knowledge and skills in economics and private enterprise system the impact of global business, marketing of good, 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.

Business Information Management (Sophomore)
Course provides software applications including word-processing and spreadsheet skills needed on a daily basis. Learn to reach your audience with dynamic multimedia and eye catching publications through presentation and desktop publishing. Reach higher levels searching skills through data base and internet activities. **Prerequisite: Principles of Business, Marketing, and Finance**

Accounting (Junior)
This course is designed to prepare students for future employment and study in the accounting field. Students will learn how to start an accounting system for a small business or for personal use by analyzing, journalizing, posting transactions and preparing reports. Students will use computerized accounting to complete entry-level exercises in accounts receivable, accounts payable, and payroll.

Practicum in Business Management & Administration (Senior)
The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Manufacturing *(Business and Industry)*

Principles of Manufacturing (Freshman)
Students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of manufacturing production technology prepare students for success in the modern world. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers.

Welding (Sophomore)
Welding students will gain the necessary knowledge and skill to become a successful welder. Students in this course should expect to be accomplished in the skills of ARC welding, MIG welding, and PLASMA ARC cutting. Students will fabricate different projects. Students will also have the opportunity to have compete in various skill contests during the year.

Advanced Welding (Junior)
Students will work on achieving the skills required for the American Welding Society Entry Level Welder certification Program. Students should expect to develop a more in-depth understanding of the welding industry.

Practicum in Manufacturing (Senior)
The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Agriculture *(Business and Industry)*

Principles of Agriculture, Food, and Natural Resources (Freshman)
Students participate in leadership contests, study rabbits, poultry, horses, sheep, steers, and the FFA organization. Students will keep a record book and learn how to judge animals, study agricultural history, and agricultural products. Students will learn parliamentary procedure using Roberts Rules of Order.

Advanced Animal Science (Senior)
This course is designed to examine the interrelatedness of human, scientific, and technological dimensions of livestock production. The course explores the dimensions of resources necessary in livestock production. Advanced Animal Science provides students with opportunities to expand their knowledge and their skills.

Mathematical Applications in Agriculture Food and Natural Resources (Junior)
Students will be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources.
Prerequisites: Algebra I, Geometry

Wildlife, Fisheries, and Ecology Management (Sophomore)
Students will study the identification and habitat of game and fish species. This is the perfect land and sea class as it explores professions having to do with animals and fish, land and sea and the management of both. Study includes management and production of both the land and sea and the continuing ecology. Upon completion students may qualify for the Hunters Safety Certification.

Small Animal Management (Senior)
In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. (1/2 Credit Taken with Professional Standing)

Agricultural Facilities Design and Fabrication (Junior)
Students will draw plans, order materials, and construct metal projects. These projects will be funded by the students and upon competition can be taken home.

Professional Standings in Agriculture (Senior)
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. (1/2 Credit Taken with Small Animal Management)

Practicum in Agriculture, Food, and Natural Resources (Senior)
The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories.

Arts, AV Technology and Communication *(Business and Industry)*

Principles of Arts, Audio/Video Technology, and Communications (Freshmen)

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 Arts, Audio/Video Technology, and Communications Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Professional Communication (Freshman, Sophomore, Junior, Senior)
Professional communication 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 computers and technology applications, a strong 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 graphics, and conduct internet search.

Graphic Design and Illustration I (Sophomore)
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.

Commercial Photography (Sophomore, Junior)
Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

Graphic Design and Illustration II (Junior)
General requirements. This course is recommended for students in Grades 10-12. Recommended prerequisites: Commercial Photography I and Commercial Photography I Lab. Corequisite: Commercial Photography II. This course must be taken concurrently with Commercial Photography II and may not be taken as a stand-alone course. Districts are encouraged to offer this lab in a consecutive block with Commercial Photography II to allow students sufficient time to master the content of both courses. Students shall be awarded one credit for successful completion of this course.

Practicum in Graphic Design and Illustration (Senior)

General requirements. This course is recommended for students in Grades 10-12. Prerequisites: Graphic Design and Illustration II and Graphic Design and Illustration II Lab. Students shall be awarded two credits for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills.

Yearbook (local credit)
Students learn elements and processes of magazine-type journalistic products, including the school yearbook. A part of the curriculum is selling advertisement and the yearbooks.

Public Service

Principles of Law, Public Safety, Corrections, and Security (Freshman)
The Law, Public Safety, Corrections, and Security Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. services, and corrections.

Correctional Services (Sophomore)
The Law, Public Safety, Corrections, and Security Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. **Prerequisite: Principles of Law, Public Safety, Corrections, and Security**

Law Enforcement I (Sophomore or Junior)
The Law, Public Safety, Corrections, and Security Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. **Prerequisite: Principles of Law, Public Safety, Corrections, and Security**

Law Enforcement II (Junior or Senior)
The Law, Public Safety, Corrections, and Security Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. **Prerequisite: Principles of Law, Public Safety, Corrections, and Security**

Court Systems and Practices (Senior)
Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation. **Prerequisite: Principles of Law, Public Safety, Corrections, and Security**

Fine Arts *(Art and Humanities)*

Concert/ Marching Band 1-4
This course meets during the fall semester and requires before school practice. The band is comprised of all percussion, woodwind, brass, and color-guard students. Participation in rehearsals, out of town trips, football games, marching band competitions, and after-school performances is required and is part of the grading procedure. The band participates at various competitions around the nation. Fees: instrument usage, assessment and travel fees.

Jazz Band Advanced 1-4
Improvisation/Jazz Theory and large ensemble techniques will be the focus of this course. These performing groups are an outgrowth of the marching band/concert band. Membership in band is not required for all wind and percussion players. Piano and bass may come from the student body. Participation at various festivals and concerts are requirements of the course. Participation at various out-of-school activities is required and is part of the grading procedure. Fees: instrument usage, assessment and travel fees.

Winter Guard 1-4
This course is for students with an interest in precision dance routines. During the spring semester, it stands as its own unit and meets every day. This group competes and travel varies year to year. This activity is indoors and choreographed to music which includes flag and dance routines. Fees: instrument usage, assessment and travel fees.

Music Theory
This course develops students' understanding of musical structure and compositional procedures. Usually intended for students already possessing performance level skills, Music Theory extends and builds upon students' knowledge of intervals, scales, chords, metric/rhythmic patterns, and their interaction in a composition. Music notation, analysis, composition, and auditory skills are important components of the course.

Art
This course introduces students to a variety of tools including materials, skills, techniques and technologies through hands-on experience using the elements and principles of design. Students learn to critique their work and the work of others. Individual creative processes and the development of personal expression will be explored. This is the basic prerequisite for all other art courses. Students may submit a portfolio and teacher recommendation to demonstrate proficiency and enroll in a higher level course.

Drawing
Drawing provides students an opportunity to develop their drawing skills through the use of high level thinking process and techniques. Contour, gesture, pen, and ink, pastel, mixed media, and value and perspective techniques will be studied. More challenging media, study of contemporary and ancient art, and world culture will inspire students and help them develop an individual drawing style.

Painting
Students will be provided an opportunity to extend their technical skills in a variety of painting styles and media. In-depth design problems encourage research of art works of other artists and cultures and include experiences in abstract, non-objective, and realistic approaches.

Sculpture
Devoted to the three dimensional art form, this course will offer the students opportunities to become more proficient in modeling and constructing original creations using additive and subtractive methods. References to both cultural and historical sculptures will allow student to recognize the value or sculpture.

Print Making
Perception, creative expression/performance, historical and cultural heritage, and critical evaluation--provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity to surroundings, memory, imagination, and life experiences, as a source for creating artworks. Students express their thoughts and ideas creatively, while challenging their imagination, fostering reflective thinking, and developing disciplined effort and problem-solving skills.

Fibers
Perception, creative expression/performance, historical and cultural heritage, and critical evaluation--provide broad, unifying structures for organizing the knowledge and skills students

are expected to acquire. Students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity to surroundings, memory, imagination, and life experiences, as a source for creating artworks. Students express their thoughts and ideas creatively, while challenging their imagination, fostering reflective thinking, and developing disciplined effort and problem-solving skills.

STEM *(Science, Technology, Engineering, and Mathematics)*

Principles of Applied Engineering (Freshman)

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.

Engineering Design and Presentation I (Sophomore)

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. **Prerequisite: Algebra I**

Engineering Design and Presentation II (Junior)

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. **Prerequisites: Algebra I and Geometry. Recommended prerequisite: Principles of Applied Engineering or Engineering Design and Presentation I.**

Engineering Mathematics (Senior)

Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming. **Prerequisite: Algebra II**

Alpine High School Foundation Plan with Endorsement (26 Credits)						
Language Arts	Math (Recommended Sequence) OR		Science (Recommended Sequence) OR		Social Studies	Additional Required Credits
English I English II/ English II Pre-AP English III / English III AP or Dual Credit English IV/ English IV AP or Dual Credit	Algebra I Geometry Algebra II Adv. Math (Ag Math, Algebraic Reasoning PreCal, or Calculus)	Algebra I Geometry Math Models Algebra II or Mathematical Applications in Agriculture Food and Natural Resources or Algebraic Reasoning	Biology Chemistry Physics Physics AP Adv Science (Ag Science, Env Science, A&P, Engineering Design Problem Solving	IPC Biology Chemistry Adv Science (Ag Science, Env Science, A&P, Engineering Design Problem Solving	World Geography World History U.S. History Government/Economics	1 Fine Art Credit 2 Foreign Language Credits (Spanish/Computer Science) 1 PE credit or substitute for PE 6 Elective Credits Speech equivalent CPR Training
Endorsements:	Arts & Humanities		STEM (Science, Technology, Engineering, Mathematics)		Business & Industry	Multidisciplinary

Distinguished Level of Achievement (DLA) graduates must meet:

- Foundation program
- 4 Math credits (including Algebra II)
- 4 science credits
- 1 Endorsement

Performance Acknowledgements graduates must meet:

- 12 hours of college credit (3.0 GPA or higher)
- 3 or higher of an AP or IB exam
- PSAT score equal to a *Commended Scholar*
- Composite score of 28 or higher of the ACT
- Score of at least 410 on the evidence based reading section and 520 on the mathematics section of the SAT
- National or Internally recognized Business or Industry certification

Multidisciplinary Endorsement		
Option 1: AP or Dual Four credits in Advanced Placement or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts.	**Option 2: Four by Four (4X4)** Four credits in each of the four foundation subjects including English IV, chemistry, and physics.	**Option 3: Combination** Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence.

STEM Endorsement Strands									
Engineering 4 credits	Concepts of Engineering and Technology (Grade 9) 1 credit	Engineering Design and Presentation (Grade 10) 1 credit	Advanced Engineering Design and Presentation (Grade 11) 1 credit	Engineering Mathematics (Grade 12) 1 credit	Practicum in Science, Engineering, Science, Mathematics (Grade 12) 1 credit				
Mathematics 5 credits **Algebra I must be taken 8th**	Algebra I (Grade 8 or 9) 1 credit	Geometry (Grade 9 or 10) 1 credit	Algebra II (Grade 9 or 10) 1 credit	4th/5th Math Credits to be chosen from the following	Pre-Calculus Pre-Calculus AP 1 credit Calculus AP 1 credit	Applications in Agriculture Food and Natural Resources 1 credit Statics 1 credit	Algebraic Reasoning 1 credit	College Algebra Dual Credit 1/2 credit Elementary Statistical Mathematics Dual Credit 1/2 credit	Any additional dual math credit classes must be approved by principal and SRSU mathematic department chair
Science 5 credits	Biology (Grade 9) 1 credit	Chemistry (Grade 10) 1 credit	Physics (Grade 11) 1 credit	4th/5th Science Credits to be chosen from the following	Physics AP 1 credit	Environmental Systems 1 credit Anatomy and Physiology 1 credit	Concepts of Engineering 1 credit Advanced Animal Science 1 credit	Botany Dual Credit 1/2 credit Zoology Dual Credit 1/2 credit	Any additional dual math science classes must be approved by principal and SRSU science department chair

Public Services						
Law Enforcement	Principles of Law, Public Safety, Corrections, and Security (Grade 9)	Correctional Services (Grades 10)	Law Enforcement I (Grade 9 or 10)	Law Enforcement II (Grade 10 or 11)	Criminal Investigation (Grade 11 or 12)	Court System and Practices (Grade 12)

Business and Industry Endorsement Strands									
Business Management & Administration credits	Principles of Business, Marketing, and Finance (Grade 9) 1 credit	Business Information Management (Grade 10) 1 credit	Accounting (Grade 11) 1 credit	Practicum in Business Management & Administration (Grade 12) 1 credit	Agricultural credits	Principles of Agriculture, Food, and Natural Resources (Grade 9) 1 credit	Wildlife Management (Grade 10) 1 credit	Agricultural Facilities Design and Fabrication (Grade 11) 1 credit	Practicum for Agriculture, Food, and Natural Resources (Grade 12) 1 credit
Arts, AV Technology and Communication Credits	*Photography (Grade 9 or 10) 1 credit *Web Design (Grade 9 or 10) 1 credit *Graphic Design (Grade 9 or 10) 1 credit	Advanced Graphic (Grade 10 or 11) 1 credit	Practicum for Arts, AV Technology and Communication (Grade 11 or 12) 1 credit		Manufacturing credits	Principles of Manufacturing (Grade 9) 1 credit	Welding (Grade 10) 1 credit	Advanced Welding (Grade 11) 2 credits	Practicum in Manufacturing (Grade 12) 2 credits

	Arts and Humanities Strands							
Social Studies credits	World Geography (Grade 9) 1 credit	World History (Grade 10) 1 credit	US History (Grade 11) 1 credit	Government (Grade 12) ½ credit	Economics (Grade 12) ½ credit	5th Social Studies Credits to be chosen from the following	Sociology (Grade 11 or 12) ½ credit	Dual Credit US History 1301 ½ credit Dual Credit US History 1302 ½ credit Dual Credit Psychology, Sociology, History
Fine Art-Art credits	Art 1 (Grade 9) 1 credit	Art II (Grade 10) 1 credit	Art III (Grade 11) 1 credit	Art IV (Grade 12) 1 credit	Additional Band Credits	Dual Credit Art Classes		

Fine Arts-Band credits	Band 1 (Grade 9) 1 credit	Band II (Grade 10) 1 credit	Band III (Grade 11) 1 credit	Band IV (Grade 12) 1 credit	Additional Band Credits	Dual Credit Music Classes	Jazz Band 1-IV	Music Theory AP

Performance Acknowledgments

- Outstanding performance in a dual credit course by successfully completing o At least 12 hours of college academic courses (Texas core curriculum and advance technical credit courses) with a grade of the equivalent of a 3.0 or higher on a 4.0 scale

- Receiving an associate degree while in high school

- Outstanding performance in bilingualism and bi-literacy o Completing all ELA requirements and maintaining a minimum of 80 percent on a 100 percent scale
  - And satisfying one of the following
    - Competition of a minimum of three credits in the same language in a language other than English with a minimum of 80 on a scale of 100; or
    - Completion of at least three credits in foundation subject area courses in an language other than English; or
    - Demonstrate proficiency in one or more languages other than English by the following method
- Score 3 or higher on an Advanced Placement exam for a language other than English (Spanish)
- Score at the Advanced High level on the Texas English Proficiency Assessment System (TELPAS)
- Outstanding performance in a college advanced placement test o Score of four or five on a College Board advanced placement examination
- Outstanding performance on PSAT, the ACT-Plan, the SAT, or the ACT o A score on the Preliminary SAT/National Merit Scholarship Qualifying Test

  (PSAT/NMSQT) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation o Achieving the college readiness benchmark score on at least two of the four subjects test on the ACT PLAN exam
  - A combined critical reading and mathematics score of at least 1250 on the SAT
  - A composite score on the ACT exam (without writing) of 28
- Performance on nationally or internationally recognized business or industry certifications or license with o Performance on an examination sufficient to obtain an nationally or internationally recognized business or industry certification; or
  - Performance on an examination sufficient to obtain a government – required credential to practice a profession

Alpine High School Four Year Plan (Class of 2018 and Beyond)

Name: _____ ID# _____ Grade: _____ Class of 20_____ Date:_____

There are three graduation plan options. Students develop and/or update graduation plans every year during the Pre-Registration Period. AHS urges completion of either the Foundation Plus Endorsement or the Distinguished Level of Achievement Plan. It is the students' and parents' responsibility to decide on a graduation option that best meets the student's needs and maximizes opportunities after high school. Students are automatically placed on the Foundation Plus Endorsement Graduation Plan. Students who choose to move from the Foundation Plus Endorsement Program to Foundation Plan must wait until they complete the 10th grade and have parent/guardian permission in writing. Students and Parents are responsible for meeting with the counselor and monitoring the successful completion of courses required for graduation.

Endorsement (Not Required)
_____STEM
_____Business and Industry
_____Arts and Humanities
_____Public Service
_____MultiDisciplinary
Strand _____
_____

My Graduation Plan is

_____ Foundation Plan (FP)

My Post High School plans will take me to: (Check as many as apply) _____ Two Year College
_____ Technical Training
_____ Four Year College/ University
_____ Employment
_____ Military
_____ Other
_____
_____

	Distinguished Level of Achievement	Foundation Plan + Endorsement	Foundation Plan
Discipline	Credit	Credit	Credit
English	4	4	4
Math	4	4	3
Science	4	4	3
Social Studies	4	4	3
Foreign Language or Computer Science	2	2	2
Fine Arts	1	1	1
Physical Education	1	1	1
Health	.5	.5	.5
Speech	.5	.5	.5
Electives	5	5	4
Total Credits For Graduation	26	26	22

Discipline	Middle School Credit	9th Grade	10th Grade	11th Grade	12th Grade	Distance Learning/ Correspondence
English						
Math						
Science						
Social Studies						
Foreign Language						
Fine Arts						
PE						
Electives						
Electives						
Electives						

Student Signature: _____ Date: _____
Counselor Signature: _____ Date: _____
Parent Signature: _____ Date: _____