

**Piedra Vista High School  
Course Catalog  
2018 - 2019**



**PV IS THE PLACE TO BE**

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## **Aide Opportunities**

### **Office Aide (Guidance, Front Office)**

Fee	None
Prerequisite	Approval of appropriate office staff
1 Credit	
Grades 10-12	Guidance
Grades 11-12	Front Office

Gives the student practical experience in performing office procedures and in working with people. Objectives are to develop basic skills in working effectively with the public, parents, and students; to develop basic skills including bulk mailing, sorting, and distribution; to develop reliable work habits including promptness and regular attendance; to develop an understanding that daily responsibilities must be met; to develop trustworthiness by handling all duties with confidentiality; to develop maturity and self-discipline by accepting projects and following them to completion; to develop the ability to work with others and to show responsiveness for the needs of the office/school and its staff. Students may only be an office aide one time during high school.

### **Library Aide**

Fee	None
Prerequisite	Conference with librarian Teacher recommendation

1 Credit

Grades 10-12

This course is limited to one student per period. The purpose of this course is to teach students how to use the library more effectively, as well as to teach various basic work skills through on-the-job training. Utilizing individualized instruction, the following will be covered: value and purpose of libraries, organization of the library, using the online catalog, processing of library materials, circulation procedures, maintenance of library collections, promotion of library resources, and customer service. This class is not a study hall.

### **Department Chair Aide**

Fee	None
Prerequisites	Approval of department chair

1 Credit

Grades 11-12

Students who have chosen the field of education as their program of study are eligible to apply to be an aide for a department chair. Course provides students with the opportunities to assist department chairs with duties.

## **Business and Marketing Education**

### **Accounting I**

Fee None

Prerequisite None

1 Credit

Grades 9-12

Acquaints and equips students with skills needed to perform daily accounting activities of a proprietorship and partnership. This includes principles and methods of recording business transactions, preparing and interpreting financial statements, and doing general business operations essential to all business workers. Manual concepts are taught as well as automated accounting.

### **Accounting II**

Fee None

Prerequisite Accounting I

1 Credit

Grades 10-12

Provides students a more intensive study of accounting procedures for partnerships and corporations. It is planned for the student who has one or more of the following objectives: to become a bookkeeper or an accountant, to major in accounting in college, or to know more about business procedures and records. Students will cover automated accounting.

### **Business and Personal Law**

Fee None

Prerequisite None

1 Credit

Grades 11-12

This course presents a history and philosophy of law and the legal system in the United States, with a particular emphasis on those topics affecting students as future business leaders and employees (such topics may include contracts, commercial paper, tort law and debt instruments, property rights, employer/employee relationships, and constitutional rights and responsibilities). This course is also the study of law and how it affects the individual and the individual's business activities. Students learn about contract sales agreements and other legal issues they will confront each day. Actual legal cases will be explored, as well as laws in other cultures. Law careers, ethics, and resolving disputes are some of the legal issues that are covered.

### **Desktop Publishing I**

Fee None

Prerequisites Teacher approval

1 Credit

Grades 10-12

In Desktop Publishing I, the student acquires skills in desktop publishing and applies design and layout principles to a variety of publications and uses them to develop creative and artistic projects (e.g., calendars, course offering handbooks, newsletters).

## **Desktop Publishing II**

Fee None  
Prerequisites Desktop Publishing I or teacher approval  
1 Credit  
Grades 10-12

In Desktop Publishing II, the student continues to build on his/her technical design skills developed in Desktop Publishing I. The student produces professional high-quality page design for business publications (e.g., newsletters, flyers, brochures, business cards) using page layout tools for print and the Web.

## **Introduction to Business**

Fee None  
Prerequisite None  
1 Credit  
Grades 9-12

Interested in learning more about the business world today? This course will introduce students to the role of business in society and the factors that impact it locally and globally, as well as an overview of the functional areas of business and the basic concepts of the business world. Topics include: the stock market, how business is owned and structured, accounting, entrepreneurship, marketing, law, business ethics, workplace diversity issues, how to write a business plan, what it takes to start a business, and the roles of employees and employers. This class utilizes project-based learning, in addition to traditional classroom activities.

## **Marketing**

Fee None  
Prerequisite None  
1 Credit  
Grades 9-12

Marketing is a course providing instruction of marketing practices that support the sale of products to retail consumers. In this class you will explore the aspects of marketing: promotion, selling merchandising, customer service and business fundamentals as they relate to product design, selling, pricing, distribution, retail promotion, visual merchandising, retail cycles, retail theories, and career opportunities in the retail industry. This class utilizes project-based learning, in addition to traditional classroom activities.

## **Business Co-op**

Fee None

Prerequisite Must have employment

3 Credits

Grades 11-12

Course work experience is gained within the business field. The student, teacher, and employer will set goals cooperatively: classroom attendance, related training experience, and related course work are an integral part of the Business Co-op experience. Course may include work-study, internships, school based enterprises, service learning, mentor programs, or job shadowing experiences. Goals are set for the employment period and related classroom experiences will align with occupational training in the field. Improvement of employability skills and discussion regarding the experiences and problems encountered on the job will also be included in classroom activity.

## Family and Consumer Science

### Family and Consumer Science Overview

Fee \$15.00 non-refundable

Prerequisite None

1 Credit

Grades 9 -12

Learn more about the careers offered in the field of Family and Consumer Sciences (FACS). These courses typically include foods and nutrition; clothing; child development and care; housing design, decoration, and maintenance; consumer decisions; and interpersonal relationships. They may include an introduction to the careers available in the family and consumer sciences field.

### Foods I

Fee \$30.00

Prerequisite None

1 Credit

Grades 9 -12

This is a fun course that focuses on basic skills needed in food preparation, safety and sanitation. In this class you will study about nutrition, food and culture; why we eat what we eat. You will study safety and food-borne illnesses before you get into the kitchen labs and participate in various competitions-salsa competition, iron chef competition, cake competition. You will learn about mise en place, how to follow directions and work cooperatively with a team to accomplish cooking labs. Labs include learning knife skills, using equipment, researching foreign foods, and a variety of recipes.

### Culinary Essentials I & II – CATE Center

Fee \$20.00

Prerequisite "C" or better in Foods I

1 Credit

Grades 10 -12

Have you mastered cooking for your family? Do you want to tackle the challenge of cooking for a large crowd? Advanced Foods II can offer you that challenge. This class is a hands-on approach to quantity food production. Students will be learning the principles of running a food establishment while helping to prepare food for catering outside of school. Knife skills and presentation are also emphasized. Students will begin to explore food science and how it applies to the restaurant industry. Students will be required to attend catering jobs outside of school as part of this class. Students must be able to provide their own transportation.

### **Pro Start Year I/Foods III – CATE Center**

Fee \$20.00  
Prerequisite Foods II/Advanced  
1 Credit  
Grades 11 – 12

Advanced Foods III begins the ProStart program. ProStart is a two-year certificate program nationally accepted by the restaurant industry. Students will begin to explore careers in the restaurant and hospitality industry. The students will get a more in-depth look at what it takes to work in a restaurant kitchen and also how to run the floor. This is a skills-based class and lab work will be done to hone knife skills, garnishing techniques, and general preparation of quantity food production. In addition to text work, students will be required to participate in catering jobs outside of school as part of this class. Students must be able to provide their own transportation.

### **Pro Start Year II/Catering Management – CATE Center**

Fee \$20.00  
Prerequisite Students must have completed Pro Start I with a grade of “C” or better. Teacher approval required for manager positions.  
1 Credit  
Grade 12

Do you want the opportunity to make decisions and give orders? This class will give you the opportunity to do just that. In addition to completing Pro Start Certification Program ProStart II, students will learn to work with a budget and how to delegate the time of others to get a catering job done. Each student will have a group of students they are responsible for and learn the fine art of supervision. Managers will be responsible for inventory of the lab and maintenance to keep the lab running smoothly. Due to the fact that this class does outside catering jobs, this class requires that the manager be in attendance in hours other than school hours.

### **Child Development**

Fee \$10.00 non-refundable  
Prerequisite None  
1 Credit  
Grades 9-12

This is an academic class with book work, tests, and hands-on projects. It is designed for students who are preparing for any career in education or working with children. It also prepares students for the future as a parent. Positive discipline techniques, ages and stages of development from conception through the teenage years are focuses of this class. The emphasis is on being a caregiver in a variety of roles.

### **ECC I - Early Childhood Careers I**

Fee \$5.00  
Prerequisite Child Development  
2 Credits/2 Periods  
Grades 10 – 12

Do you enjoy working with children? Are you planning for a future in elementary or early childhood education, library science, pediatric medicine or dentistry, psychology or social work? Enroll for actual experience in group care, discipline, group activities, and overall organization in elementary education and day-care settings. Students will have a local background check conducted on them in order to meet requirements for anyone being considered for a position working with children. Students are responsible for their own transportation. The fall semester is in the classroom and the spring semester is in a childcare center.

### **ECC II - Early Childhood Careers II**

Fee \$5.00  
Prerequisite Early Childhood Careers I  
2 Credits/2 Periods  
Grades 11-12

Learn even more about children! This is a full year lab experience in which students will be able to work in preschool and elementary education settings. Students will work closely with supervising personnel in order to gain experience, not only working with children, but also planning lessons and organizing daily routines and activities. Students will have a local background check conducted on them in order to meet requirements for anyone being considered for a position with young children. Students are responsible for their own transportation. First few weeks of the course is in the classroom and then in a childcare center placement for the remainder of the school year with periodic classroom check-in.

### **ECC III - Early Childhood Careers III**

Fee \$5.00  
Prerequisite Early Childhood Careers II  
Teacher Approval  
Driver's License and Transportation  
2nd Semester Dual Credit

2 Credits/2 Periods  
Grade 12

During the first three weeks of this course, students will be prepared to do a set Age Level Rotation determined by the teacher, and students will take the Accuplacer. During the next six weeks, students will go to their assigned site location for work experience involving pre-school aged children. During the last nine weeks of the course, students will be required to work at an elementary school. During the second semester of ECC III students are required to take dual credit ECC classes at San Juan College.

## Technology

### 3D Animation and Design

Fee \$8.00 non-refundable

Prerequisite None

1 Credit

Grades 9-12

The objective of this course is to develop three-dimensional and animated graphic design projects. Create animations and short films such as Shrek, Incredibles and Finding Nemo. Students use Adobe and Apple software such as PhotoShop, Cinema 4D, iMovie, and other design software for paper, Web, and other electronic publishing. The Internet will be used as a design resource. Outcomes: College Prep, Tech Prep, and Entry Level Job Skills.

### Advanced 3D Animation and Design

Fee \$8.00 non-refundable

Prerequisite 3D Animation and Design or teacher permission

1 Credit

Grades 10-12

The objective of this course is to develop three-dimensional and animated graphic design projects. Create advanced animations and short films such as Shrek, The Incredibles, and Finding Nemo. Students use Adobe and Apple software such as PhotoShop CS, Blender, and Cinema 4D to create professional designs and animations. The emphasis of this course is to have students work in teams to create various projects. This class intends to simulate real-world production team situations. Outcomes: College Prep, Tech Prep, and Entry Level Job Skills.

### Digital Photography

Fee \$8.00 non-refundable

Prerequisite None

1 Credit

Grades 9-12

Digital Camera strongly recommended

Have you ever wanted to edit your digital pictures? This course will teach you how to take and edit digital pictures. Using state of the art computer software, this course will teach desktop publishing and digital photography skills for personal and business use. Students will learn how to edit, enhance and composite digital images. Students will understand how to scan, store and manipulate digital images. In the digital portion of the class, emphasis will be on the desktop publishing aspects of photography and it's use in online and print media. Media criticism and the use of images in news and print will also be covered in this course. Software production is done in Adobe PhotoShop, Adobe Illustrator, and Adobe InDesign. Outcomes: College Prep, Tech Prep, and Entry Level Job Skills.

## **Advanced Computer Projects**

Fee \$8.00 non-refundable

Prerequisite A/B Grade in any technology class and teacher approval

1 Credit

Grades 11-12

This course is designed for students who have a strong background in a programming language (preferably HTML, Java or C+ or advanced software from Graphic Design, 3D Design, and Web projects,) and wish to develop meaningful, useful projects and software. Completion of application projects and/or software projects constitutes the student's grade. Students must submit written plans in advance to outline their projects. Students learn and follow strict guidelines in software development and or application usage. Students work with any computer, programming language, or application as required by the "customer." The Internet will be used as a development resource. Outcome: college Prep, AP Preparation, and Entry Level Job skills.

## High School Automotive

FHS and PVHS automotive courses are held off campus at the CATE Center. Bus transportation is provided. Driving to the CATE Center is allowed with parent permission. The two-period courses are taught progressively throughout the year, and each course must be entered at the beginning of the fall semester due to the required safety training that takes place at the beginning of the school year. Students in grades 10-12 may begin in any of the three automotive courses without prerequisite. All automotive classes include a highly technical curriculum, which requires basic math, reading and writing skills for complete success. Students must provide: leather work shoes, clear safety glasses, and coveralls. Safety is emphasized. The overall goal of the PVHS Automotive Program is to expose students to career and educational possibilities in the automotive field and to provide students with a general working knowledge of the automobile and automobile service.

### Automotive 1

Fee None

2 Credits

Grades 10-12

Automotive Engine Overhaul & Performance – This course is taught at the CATE Center. This course will cover the principles and operation of the internal combustion engine. Engines will be properly disassembled, inspected, measured and reassembled. Diagnosis and repair of the engine lubrication and cooling systems will also be covered. The latter part of the year will be the study of electronics and computer problems. Electrical theory and system uses in autos will be taught. Segments on complete auto repair and maintenance will be offered.

### Automotive 2

Fee None

2 Credits

Grades 11-12

Automotive Suspension, Steering & Brakes – This course is taught at the CATE Center. This course begins by introducing students to the theory, operation and repair of the suspension and steering systems and continues with automotive braking systems in modern automobiles. Segments of performance brakes and suspension will be discussed and compared with production systems offered on factory equipment. Top of the line equipment such as brake lathes, alignment racks and tools will be used.

### Automotive 3

Fee None

2 Credits

Grade 12

Automotive Engine Tune-up & Electrical – This course is taught at the CATE Center. This course will cover the principles and operations of the internal combustion engine. Maintenance, care and performance will be covered using test equipment and tools needed for safe and proper repairs. Troubleshooting and diagnosis of drivability problems will be covered. Safety will be stressed throughout the year. Fuel systems, ignition systems, lighting systems, and computer systems will be covered with the electrical portion of the year using systematic method of repair.

## High School Welding

These courses are taught at the CATE Center. FHS and PVHS welding courses are held off campus at the CATE Center. Bus transportation is provided. Driving to the CATE Center is allowed with written parent permission. The two-period courses are taught progressively throughout the year, and each course must be entered at the beginning of the fall semester due to the required safety training that takes place at the beginning of the school year.

### Exploratory Welding I

Fee None

2 Credits

Grades 9-12

This course will introduce students to weld shop safety, use of hand tools, cutting equipment, oxy/fuel welding and cutting. Students will also be introduced to math and blueprint concepts used in basic metal fabrication to create small projects. This class is designed to give students the opportunity to explore the field of welding and is not intended to transfer to another institution.

### Exploratory Welding II

Fee None

2 Credits

Grades 10-12

Students in this course will be introduced to the basics of Shielded Metal Arc Welding. During this course students will be introduced to SMAW safety, rod identification and electricity and welding terms.

### Exploratory Welding III

Fee None

2 Credits

Grades 11-12

This is a dual credit course taught with a more advanced level of welding. Students must sign up for the dual credit to earn credits through San Juan College. (Students must pass the course with a grade of 74% or a C letter grade). This knowledge learned will culminate with students welding with various types and sizes of electrodes in all positions.

## **SJC Dual Credit Courses offered @ PVHS**

These courses are offered each year if enough students request them, and we have an approved teacher.

### **Beginning Drawing (Dual Credit) / Arts 112**

Fee \$45.00 non-refundable

Prerequisite None

1 HS Credit/3 college credits per semester

Grades 11-12

Utilizes various methods and materials with emphasis on the perception of form in many areas of subject matter and consideration of the elements of composition.

### **Beginning Painting (Dual Credit) / Arts 251**

Fee \$45.00 non-refundable

Prerequisite None

1 HS Credit/3 college credits per semester

Grades 11-12

Painting in various traditional and non-traditional media. Pursuing individual expression through painting techniques in relation to a broad scope of art concepts and styles.

### **Elementary Spanish I (SPAN 111) (Semester 1 – fall)**

Fee None

Prerequisite None

1.33 High School Credits/4.0 College Credits

Grades 11-12

Develops listening, speaking, reading, and writing skills. Uses a communicative approach to cover vocabulary, grammar, conversation, and culture.

### **Elementary Spanish II (SPAN 112) (Semester 2 – spring)**

Fee None

Prerequisite SPAN-111

1.33 High School Credits/4.0 College Credits

Grades 11-12

This course is a continuation of SPAN-111. Spanish native speakers can take this class without having taking the SPAN 111.

## English

### English 9

Fee Summer reading text(s) and project materials

Prerequisite None

1 Credit

Grade 9

English 9 is designed for students to meet the standards for college-bound and vocation-bound students who have average and above average language arts skills. The students study grammar and usage, improve spelling and vocabulary, and analyze a variety of literary forms with strong focus on informational text through written and oral activities. Students develop note taking, outlining, and research skills, and, read novels. The emphasis on the writing process, including paragraphs and various types of essays, is in-depth.

### English 9 Honors

Fee Summer reading text(s) and project materials

Prerequisite Minimum 2.5 GPA and Signed Course Contract

1 Credit

Grade 9

English 9 Honors is designed for the 21st Century, college-bound student who is willing to strive to meet high standards. The students utilize group and independent work, communication skills, technology, presentation skills, and problem solving. Students complete in-depth analyses of various literary forms through written and oral activities with an emphasis on informational text and prepare for the Advanced Placement Test through the reading and examination of several novels. Responses, both objective and subjective, include explication, prediction, analysis, criticism, and evaluation.

### English 10

Fee Summer reading text(s) and project materials

Prerequisite None

1 Credit

Grade 10

English 10 is designed to meet the standards for college-bound and vocation-bound students who have average and above-average language arts skills. The students review grammar and usage; improve spelling and increase vocabulary; use both oral and written language; study short stories, various novels, poetry, non-fiction, drama, and world literature. Writing activities include paragraphs, a study of informational text, various types of essays, and creative writing assignments. Research projects and presentations are also included.

## **English 10 - Honors**

Fee Summer reading text (s) and project materials  
Prerequisite Minimum 2.5 GPA and Signed Course Contract  
Pass English 9

1 Credit

Grade 10

English 10 Honors is designed for 21<sup>st</sup> Century, college-bound students who are willing to strive to meet high standards, utilizing group and independent work, communication skills, technology, presentation skills, and problem-solving. Students read and respond to a variety of literary genres, both in writing and speaking, with an emphasis on informational text. Responses, both objective and subjective, include explication, prediction, analysis, criticism, and evaluation. Students begin preparation for the Advanced Placement Exam in the 11<sup>th</sup> grade.

## **English 11 - American Literature**

Fee Summer Reading text and project materials  
Prerequisite None

1 Credit

Grade 11

English 11 is designed to meet the standards for college-bound and vocation-bound students who have average and above-average language arts skills. Students study cultural diversity in American literature from early American mythology to 21st century works. Students study grammar skills, vocabulary terms, spelling, and become familiar with literary genres and terms through the study of short stories, drama, various novels, poetry, and an emphasis on informational text. Students read selected novels, complete research, and work in collaborative groups with classmates on presentations/projects and write using a variety of formats.

## **English 11 - Advanced Placement**

Fee Summer reading text(s) and project materials  
Prerequisite Minimum 2.5 GPA and Signed Course Contract  
Pass English 10

1 Credit

Grade 11

English 11 Advanced Placement is designed for the college-bound student who is willing to strive to meet high standards and to prepare the student for the National Advanced Placement English Language and Composition Exam in May. This is primarily a course in both effective and persuasive writing and critical reading of non-fiction and fiction prose written in a variety of periods, disciplines, and rhetorical contexts. Students will learn how to write effective synthesis essays, rhetorical analysis essays, and persuasive essays while studying several novels. Students registering for this class need to realize considerable individual responsibility and effort.

## **English 12 - British & World Literature**

Fee Summer reading text(s) and project materials

Prerequisite None

1 Credit

Grade 12

English 12 is designed to meet the standards for college-bound and vocation-bound students who have average and above-average language arts skills. The literary focus is on various genres of British and World literature including fiction, nonfiction, and poetry. Students will exercise 21<sup>st</sup> Century skills to include group work, technology integration and practice, as well as problem solving. The course will also focus on higher-level paper writing skills, analysis of literature, study and practice of vocabulary, and intensified study of grammar application. Group discussion, speaking, listening, and thinking skills are also emphasized. Students research, write, and present with a sustained focus on informational text; this may include essays, creative writing, career development, and technical writing.

## **English 12 - Advanced Placement**

Fee Summer reading text(s) and project materials

Prerequisite Minimum 2.5 GPA and Signed Course Contract

Pass English 11

1 Credit

Grade 12

English 12 Advanced Placement is designed to prepare students to complete the National Advanced Placement English Literature and Composition Exam in May and is comparable to a freshman-level, Composition II, college literature course. Students must possess advanced reading and solid analytical writing skills upon entering the class. Students read and analyze diverse, advanced literature, as well as poetry, and analyze the reading selections through extensive writing and discussion. Students registering for this class assume considerable individual responsibility for the amount of reading and writing required to meet the stringent expectations of the course, which includes unannounced quizzes, timed writings and a sustained, rigorous pace. Students assume responsibility for a high degree of outside concentration on topics and reading material, including weekend assignments and homework each evening.

## **Language Arts Lab**

Fee None

Prerequisite Staff approval, reading scores, testing and recommendation

1 Credit

Grades 9-10

The Language Arts Lab provides instruction in basic language skills, reading, writing, speaking, and listening while placing great emphasis on individual student progress. Course content depends upon student abilities upon entrance into the course, and may include vocabulary building, spelling and grammar, writing and composition, reading silently or aloud, and improving listening and comprehension abilities. The course is implemented through the use of district reading programs. This course is taken concurrently with an English course.

## **Reading Intervention**

Fee None

Prerequisite Staff approval, reading scores, testing and recommendation

1 Credit

Grades 9-10

Reading Intervention provides instruction in basic language skills, reading, writing, speaking, and listening while placing great emphasis on individual student progress. Course content depends on student abilities upon entrance into the course, and may include vocabulary building, spelling and grammar, writing and composition, reading silently or aloud, and improving listening and comprehension abilities. The course is implemented through the use of district reading programs. This course is taken concurrently with an English course.

## **Journalism I**

Prerequisite Strongly recommended "C" or better in English

1 Credit

Grades 10-12

Students are introduced to the role of the media in our society. Students learn basic reporting and journalistic writing techniques as they interview, research, and write news and feature articles. Students also study editorial writing, basic principles of layout, headline writing, and basic knowledge of desktop publishing and photo editing. This course teaches all students to be intelligent consumers of news and prepares interested students for future work in journalism, including work on school publications and career opportunities afforded by media. This course is conducted in a news laboratory situation. STUDENTS ARE EXPECTED TO ATTEND EXTRA-CURRICULAR SCHOOL SPORTS AND ACTIVITIES AND MAY BE REQUIRED TO STAY AFTER SCHOOL TO MEET DEADLINES.

## **Journalism II, III (Newspaper)**

Prerequisite "C" or better in Journalism I

Teacher permission/recommendation

1 Credit

Grades 11-12

Advanced Journalism provides "hands-on" experience in writing, designing, and editing the school's newspaper. Students have full responsibility for producing the school newspaper, and will be required to take on leadership roles. This course may also include solicitation of advertising adequate to offset the publication costs and creation/publication of ad copy. Students commit to teamwork, cooperation and dependability, and adhere to deadlines. This course is conducted in a news laboratory situation. STUDENTS ARE EXPECTED TO ATTEND EXTRA-CURRICULAR SCHOOL SPORTS AND ACTIVITIES AND MAY BE REQUIRED TO STAY AFTER SCHOOL TO MEET DEADLINES.

### **Yearbook I, II, III**

Prerequisite "B" or better in current English class  
"B" or better in yearbook, if applicable  
Yearbook teacher approval  
Parent permission

Suggested Equip: Digital camera and SD (SanDisk) card

1 Credit

Grade 10-12

Students assume full responsibility for producing the school's yearbook, while developing design, photography, reporting, editing and writing skills. Students also attain course-specific vocabulary and basic principles of layout, desktop publishing and photo editing. Students in this course will learn business, communication, and collaborative skills found in the workplace. Incoming freshmen students may apply to be in the class and will be subject to the application and referral process. Yearbook II and III students must assume roles of leadership in planning for total coverage of the school year.

Students commit to teamwork, cooperation and dependability, and adhere to deadlines. STUDENTS ARE EXPECTED TO ATTEND EXTRA-CURRICULAR SCHOOL SPORTS AND ACTIVITIES AND MAY BE REQUIRED TO COME IN DURING LUNCH AND/OR STAY AFTER SCHOOL TO MEET DEADLINES.

### **Speech & Debate**

Fee \$10.00 Lab Fee

Prerequisite None

1 Credit

Grades 9-12

Speech & Debate offers students the opportunity to learn how to employ oral skills in formal and informal situations. Through the forensics of the course, students develop logic and reasoning, research and analysis, organization of thought and supporting materials, argumentative style and skill, and effective presentation of one's voice and body. Often linked to extracurricular programs, students learn the methods, aims, and styles of the debating events (formal debate or Lincoln-Douglas). Participation in competition is encouraged, but not always required.

## **Fine Arts**

### **Art I**

Fee \$40.00 non-refundable

Prerequisite None

1 Credit

Grades 9-12

Open to students interested in drawing, painting, and sculpture. The emphasis is on technical skills, vocabulary, and the application of the elements and principles of design.

### **Art II**

Fee \$40.00 non-refundable

Prerequisite Art I

1 Credit

Grades 10-12

Open to students interested in more advanced studies of the elements and principles of art as applied to abstract and realistic drawing, painting, and sculpture. There is stronger emphasis on more advanced studies of drawing, painting, sculpture, vocabulary and art history. Studies may include still life, figure, portrait, and landscape.

### **Art III**

Fee \$40.00 non-refundable

Prerequisite Passing grades in Art I, Art II, and teacher approval

1 Credit

Grades 11-12

Open to students with further interest in advanced drawing, painting and sculpture. Studies include drawing and painting of landscapes, vegetation, animals, still life, portraits and figure. The emphasis is on composition and design.

### **Art IV**

Fee \$40.00 non-refundable

Prerequisite Passing grades In Art I, II, and III and teacher approval

1 Credit

Grade 12

Guided independent study class with 10-15 major drawings and paintings to be completed using skills developed in previous classes.

### **Ceramics I**

Fee \$40.00 non-refundable

Prerequisite None

1 Credit

Grades 9-12

Ceramics class will look at many aspects of working with clay. Students will spend a majority of time perfecting hand building and glazing techniques. They will also have the opportunity to work on the wheel.

## **Ceramics II**

Fee \$40.00 non-refundable  
Prerequisite "B" or better in Ceramics I  
Teacher approval

1 Credit

Grades 10-12

Further exploration of the ceramic process will include hand building, potter's wheel, ceramic sculpture, glaze, and kiln work.

## **Ceramics III**

Fee \$40.00 non-refundable  
Prerequisite "B" or better in Ceramics I & II  
Teacher approval

1 Credit

Grades 11-12

Open to Students with further interest in advanced Ceramics. Students will spend more time on the potter's wheel perfecting different throwing techniques. Students will also concentrate on creating functional ceramic forms, including pieces that involve handles, spouts, and lids.

## **Ceramics IV**

Fee \$40.00 non-refundable  
Prerequisite "B" or better in Ceramics I, II, and III  
Teacher approval

1 Credit

Grade 12

Guided independent study class with emphasis on problem solving. There will be twenty major ceramic pieces to be completed during one semester. Investigation into pottery and off-the-wheel construction processes such as a slab and coil work for effective expression of ideas. Investigation into kiln building and raku firing may be possible.

## **Photography I**

Fee \$60.00 non-refundable  
Prerequisite None

1 Credit

Grades 10-12

Learn the art and science of black and white photography using a 35mm film camera. Students will develop their own film and prints in the darkroom.

## **Photography II**

Fee \$60.00 non-refundable  
Prerequisite "B" better in Photography I  
Teacher approval

1 Credit

Grades 10-12

This class refines skills introduced in Photo I with an emphasis on real world applications. Students will be introduced to portrait photography, studio photography, sports photography, photojournalism, and landscape photography.

### **Photography III**

Fee \$60.00 non-refundable  
Prerequisite B" better in Photography I & II  
Teacher approval

1 Credit

Grades 11-12

Students will refine skills introduced in Photo I and II. Assignments will be based on contemporary themes with an emphasis on portfolio development.

## **Band**

Previous musical experience is not required but preferred for enrollment in the Pride Marching or Concert Band.

### **Pride Marching Band and Concert Band I, II, III, IV**

Fee \$35 per year – District Wide

2 Credits (0 and 1st hour)

Grades 9-12

Uniform Fee Required: \$40 per year – District Wide

Instrument Rental Fee: \$60 per year – District Wide

Marching Band activities include playing at all Piedra Vista High School football games, community parades, area marching festivals, and the NWNMEA District Marching Contest. Students will be responsible for raising money for extracurricular trips.

Marching styles and memorization are the main focus of this course. Marching Band begins with a full week band camp and a 3-day rookie camp for new students. Camp will focus on marching fundamentals. Summer sectionals will meet periodically throughout the summer to ensure that a dedicated and disciplined ensemble is formed. Only those students who show the dedication, hard work, and pride required of the Pride Band will be able to participate in the Pride Band Events. Contest performances will be limited to those students who are eligible according to NMAA regulations. All students enrolled in marching band must attend weekly zero hour rehearsals, as well as Monday night rehearsals. Unexcused absences at rehearsals, excessive tardiness or a negative attitude will result in removal from the Panther Pride Marching Band.

Concert Band competes at various levels. Their performances include, but are not limited to, three concerts a year, graduation, basketball games, pep rallies, solo & ensemble festivals and Large Group Festival. Contest performances will be limited to those students who are eligible according to NMAA regulations. Students will study music fundamentals to enhance their ability to perform, read, and interpret music. Students will be responsible for raising money for extracurricular trips. **IT IS MANDATORY THAT ALL STUDENTS ENROLL FOR "0" AND "1ST" HOURS UNLESS THEY HAVE ATTAINED WRITTEN PERMISSION FROM MR. MEDA.**

### **Beginning Guitar**

Fee \$35 per year – District Wide

1 Credit

Grades 9-12

Equipment Rental \$30 per semester – District Wide

This is an elective course for beginning level guitarists who have little to no experience on the instrument designed for students to learn the basics of playing the guitar. In this class students will focus on fundamental techniques necessary for playing the guitar. Students will learn basic music reading, theory, accompaniment, and fingerstyle playing techniques. Students will learn in both the class setting as well as through self-guided practicing. It is encouraged for students to supply their own guitar, tuner, and metronome.

## **Intermediate Guitar**

Fee \$35 per year – District Wide

1 Credit

Grades 10-12

Equipment Rental \$30 per semester – District Wide

This is an elective course for intermediate guitarists who have some experience on the instrument and are able to read standard music notation. Students will learn open chords, power chords, movable chords, single note (melody) playing, accompaniment techniques, and a variety of playing techniques and styles, including both pickstyle and fingerstyle approaches to the guitar. The course also includes music fundamentals, theory, songs, performances, listening, improvising, and learning to read standard music notation as well as tablature. The main focus of this class is ensemble performance and competition. There is also an emphasis on solo classical guitar performance. Classical (Nylon String) Guitar is required. Prerequisites: Passed Beginning Guitar with at least B average or audition, and written permission from Mr. Meda.

## **Advanced Guitar**

Fee \$35 per year – District Wide

1 Credit

Grades 11-12

Equipment Rental: \$30 per semester – District Wide

This is an elective course for Advanced guitarists who have experience on the instrument and are able to read standard music notation. Students will further their knowledge of open chords, movable chords, single note (melody) playing, accompaniment techniques, and a variety of playing techniques and styles. The course also includes music fundamentals, theory, songs, performances, listening, improvising, and reading standard music notation as well as tablature. The main focus of this class is ensemble performance. Students in this course will be required to try out for The New Mexico Music Educator's All State Guitar Ensemble. There is also an emphasis on solo classical guitar performance. Classical (Nylon String) Guitar is required. An audition for Mr. Meda is required for admittance into this class.

## **Jazz Band**

Fee \$35 per year

Prerequisite Must be approved by Mr. Meda

1 Credit

Grades 9-12

This course is designed as a supplemental ensemble to the Concert/Marching Bands. This class will serve as an introduction to the rich history of jazz music. Through ensemble rehearsal, individual practice, and a variety of performance opportunities, the student will gain an understanding and appreciation for this great art form. Emphasis will be placed on not just performance technique, but also rudimentary improvisational skills, musicianship, and a sense of personal accountability. This ensemble is a skilled effort in which each student is expected to show technical and musical growth throughout this course.

## Choir

### **Treble Choir I, II, III, IV (Choir-Treble-Non-Audition-Women)**

Fee \$35.00 non-refundable; fundraising also recommended

Prerequisite None

1 Credit

Grades 9-12

This is an entry level, non-auditioned treble choir for female voices. Students will study basic vocal music fundamentals, music theory, and sight reading techniques. This chorus performs appropriate treble literature from all historical periods. This choir performs in at least two concerts and a choral music festival during the year. These students are also urged to participate in district and state solo voice competitions.

### **“Manthers” Men’s Choir I, II, III, IV**

Fee \$35 non-refundable; fund-raising also recommended

Prerequisite None

1 Credit

Grades 9-12

This is an entry level, non-auditioned cambiata, tenor and bass choir for male voices. Students will study basic vocal music fundamentals, music theory, and sight reading techniques. This chorus performs appropriate literature from all historical periods. This choir performs in at least two concerts and a choral music festival during the year. These students are also urged to participate in district and state solo voice competitions.

### **“PVC Pipes” Mixed Concert Choir I, II, III, IV**

Fee \$35 non-refundable; fund-raising also required

Prerequisite Audition, Director approval

1 Credit

Grades 10-12

This choir is an auditioned mixed (women/men) ensemble, which studies beginning and upper intermediate vocal techniques, music fundamentals, music theory, and sight reading. This choir performs appropriate choral literature from all historical periods. This choir performs in at least two concerts and a choral music festival during the year. These students are also urged to participate in district and state solo voice competitions, and to study voice privately. These students must maintain a 2.0 GPA throughout the year in order to remain in the class.

### **Chamber Choir I, II, III, IV**

Fee \$35 non-refundable; fund-raising also required

Prerequisite Audition, Director approval

1 Credit

Grades 10-12

This choir is an auditioned, mixed, small ensemble, which studies intermediate and advanced vocal techniques, music fundamentals, music theory, and sight reading. This choir performs appropriate mixed, treble, and male choir literature from all historical periods. This choir performs in at least four concerts and a choral music festival during the year. Auditioning for NM All State Choir is mandatory. These students are also highly encouraged to participate in district and state solo voice competitions. Students are expected to perform for many community events as well as festivals, competitions and concerts. Out-of-school rehearsals are also necessary. . These students must maintain a 2.0 GPA throughout the year in order to remain in the class.

### **Music Theory/Music History**

Fee None

Prerequisite Musical background is HIGHLY ENCOURAGED.

1 Credit

Grades 10-12

The first semester of this class is music theory. The study of music theory entails learning to read and write musical notation. Music theory distills and analyzes the fundamental elements of music—rhythm, harmony (harmonic function), melody, structure, form, and texture. The second semester of the class will be the study of music history. Emphasis is placed on the elements of music, the characteristic styles of major historical periods, and the lives and works of key composers within the Western musical tradition. Course includes in-class demonstrations and attendance at outside musical events. No previous musical study required.

## **Drama**

### **Intro to Theatre**

Fee \$25.00 non-refundable fee

Prerequisite None

1 Credit

Grades 9-12

Units of study include: basics of performance, oral interpretation, movement and voice, scene and individual acting, design of technical elements (lights, sound, scenery), and history of theater. Students will be expected to perform and present to the class on a frequent basis. All intro students are required to participate in one show in the spring that showcases their work.

### **Technical Theatre: I, II, III**

Fee \$50.00 non-refundable fee

Prerequisite Intro to Theatre  
Interview with teacher

1 Credit

Grades 10-12

This class is responsible for all aspects of Technical Theatre including: building, painting, lighting, sound, costuming, stage-managing, and hair & makeup. This class will be responsible for building, painting, and detailing sets for all plays. The class is about teamwork and hands on practical projects. Additional time after school will be required once the construction process begins, however on a sporadic and "as needed" basis. Meeting NMAA standards including a GPA of at least 2.0 is essential for this class as we will compete at multiple competitions throughout the year. All students are required to do tech work (lights, sound, stage manage, usher, etc.) on all PV shows throughout the school year.

### **Advanced Acting I, II, III**

Fee \$50.00 non-refundable and fundraising

Prerequisite Intro to Theatre  
Monologue Audition

1 Credit

Grades 10-12

This class will heighten and build upon acting skills learned in Intro to Theatre. Participation is essential in this class and students must be willing to perform to the best of their ability. Meeting NMAA standards including a GPA of at least 2.0 is essential for this class as we will compete at multiple competitions throughout the year. You will be expected to fundraise throughout the year to pay for travel and expenses to these competitions. We will do multiple shows throughout the year and participation is required in all shows.

## **Directing & Playwriting**

Fee \$25 non-refundable fee

Prerequisite Intro to Theatre  
Teacher Approval

1 Credit

Grades 10-12

This class is intended to improve students' skills in translating a script to a final production. This class will enable students to create an artistic vision and develop a personal aesthetic, by expanding the students' exposure to different types of theatrical techniques and traditions, and providing opportunities to direct others' performances (either in scenes or in a full production). Students will each direct a scene or one-act show that will be performed for the public. You will also write your own 10-minute script which you may direct for the public to view in the spring semester. You will need to meet NMAA standards by maintaining a GPA of at least 2.0 and no "F".

## **Orchestra**

### **String Orchestra I, II, III, IV**

Fee \$35.00 non-refundable with fundraising available

Prerequisite Director approval required

1 Credit

Grades 9-12

Equipment Rental \$60/year, if needed

Students will study string instrument technique, literature, and music theory. This course is a performance-based ensemble for 9th through 12th graders needing additional high school string technique. It is a prerequisite to Advanced String Orchestra. Students will study a variety of styles including solo, chamber, large string ensemble, and symphonic literature. Several mandatory concerts are performed each semester as well as Northwest District Solo and Ensemble, Northwest District Honor Orchestra, and other trips as scheduled. Uniform required (see Director for tuxedo style or dress style). Sectionals and extra rehearsals are required.

### **Advanced String Orchestra I, II, III, IV**

Fee \$35.00 non-refundable with fundraising available

Prerequisite Director approval and previous experience required

1 Credit

Grades 9-12

Equipment Rental \$60/year, if needed

Students will study string instrument technique, literature, and music theory. This course is a performance-based ensemble for 9th through 12th graders who wish to advance their string technique skills. It is a prerequisite to Chamber Orchestra. Students will study a variety of styles including solo, chamber, large string ensemble, and symphonic literature. Several mandatory concerts are performed each semester as well as Northwest District Solo and Ensemble, Northwest District Honor Orchestra, and other trips as scheduled.. Uniform required (see Director for tuxedo style or dress style). Sectionals and extra rehearsals are required.

### **Chamber Orchestra I, II, III, IV**

Fee \$35.00 non-refundable with fundraising available

Prerequisite Audition only and Director approval required

1 Credit

Grades 9-12

Equipment Rental \$60/year, if needed

Students will study string instrument technique, literature, and music theory. This course is a performance-based ensemble for highly motivated 9th through 12th graders. All students must audition annually for this ensemble. Students will study a variety of styles including solo, chamber, large string ensemble, and symphonic literature. Several mandatory concerts are performed each semester as well as Northwest District Solo and Ensemble, Northwest District Honor Orchestra, and other trips as scheduled.. Uniform required (see Director for tuxedo style or dress style). Sectionals and extra rehearsals are required.

## Foreign Language

### French I

Fee None  
Prerequisite "C" in Language Arts required  
1 Credit  
Grades 9 -12

Learn to speak, read, and write French with the aid of literature, DVD's, and music. Knowledge of French will help you better understand English grammar and vocabulary, improve your scores on college entrance exams, and broaden your understanding of the world.

### French II

Fee None  
Prerequisite "C" or better in French I  
1 Credit  
Grades 10 -12

Expand your ability to speak, read, and write French with the introduction of tenses and more advanced level activities. Learn more about French culture and history through hands-on activities and projects. This course may be counted as a Communication Skills credit.

### French III - Honors

Fee None  
Prerequisite "B" or better in French II or teacher permission  
1 Credit  
Grades 11-12

Build on what you learned in levels 1 and 2. In French 3 we will spend more time developing your conversational skills and your ability to understand native French speakers from all over the world. We will also read a classic work of literature. You will complete a series of fun projects related to the different phases of French life, culture, and literature in preparation for the AP French Language and Culture course.

### French Language and Culture – Advanced Placement

Fee None  
Prerequisite "B" or better in French III - Honors or teacher permission  
1 Credit  
Grade 12

This class prepares you for the Advanced Placement Examination in French Language and Culture. Students are encouraged to take the AP exam. You will be speaking, reading, and writing almost entirely in French. Besides a review of grammar, we will look at various authentic reading selections and media sources to explore the six main themes of the AP syllabus.

### **Spanish I as a Foreign Language**

Fee None  
Prerequisite "C" average in Language Arts required  
1 Credit  
Grades 9-12

Open to all students interested in learning Spanish. The goal of the class is to enable students to communicate with natives in Spanish. This involves the understanding of words, customs, interpersonal relationship (family, friends, etc.), life style (meals, hours), relationship to environment (climate, geography), and the influence of history past and present. Students become aware of how the culture and language differs from English and how much their English intuition can help them learn Spanish. Spanish helps students understand, speak, read and write Spanish as it is used today.

### **Spanish II as a Foreign Language**

Fee None  
Prerequisite "C" or better in Spanish I  
1 Credit  
Grades 9-12

Open to all students interested in learning Spanish. As this is more advanced level of Spanish, it is recommended that the student should have taken Spanish I and received a grade of "C" or better. The goal of this class is to help students improve their knowledge of the Spanish language and to imitate native speakers more closely. Students gain a greater understanding of the culture of Latin America. Greater emphasis is placed on grammar and the ability to communicate orally in Level 2. Students must be willing to talk in front of a group or to hold a conversation with another student while the class listens. Entry test administered if a student feels he/she is capable of Spanish II without taking Spanish I. This class may be counted as a Communication Skills credit.

### **Spanish III - Honors as a Foreign Language**

Fee None  
Prerequisite "B" or better in Spanish II or teacher recommendation  
1 Credit  
Grades 11-12

This course allows students to practice the Spanish language and refines all they have learned during the previous 2 years. This will be accomplished through various written and verbal activities (including journaling) relating to current affairs and life in Spanish-speaking countries. Students will learn more advanced grammar in real life contexts and are introduced to Spanish literature through reading various short stories and/or books in the language with related classroom activities. This course will help prepare the student for AP Spanish Language & Culture.

### **Spanish Language IV – Advanced Placement**

Fee None  
Prerequisite “B” or better in Spanish III-Honors or teacher recommendation  
1 Credit  
Grade 12

Prepares students for the Advanced Placement Examination in Spanish Language and Culture. Students are encouraged to take the AP exam. The class is conducted almost entirely in Spanish in the areas of speaking, reading, and writing. Besides a review of grammar, the course uses various authentic reading selections and media sources to explore the 6 main themes of the AP syllabus.

### **Spanish Language I/Bilingual**

Fee None  
Prerequisite Students should be able to speak Spanish  
1 Credit  
Grades 9-12

This course is designed to develop reading, writing, and listening skills in Spanish and to improve Spanish grammar. Emphasis is placed on literacy in the Spanish language. It is developed for the monolingual Spanish speaker, the bilingual student (Spanish/English), and/or a student who has already acquired advanced Spanish-speaking skills. Selected readings on Hispanic literature, culture, and current events will be included.

### **Spanish Language II/Bilingual**

Fee None  
Prerequisite Students should be able to speak Spanish  
1 Credit  
Grades 9-12

This course is a continuation of Spanish Bilingual I at a more advanced level. It is designed to develop even more the Spanish-speaking student's reading, writing, and listening skills in Spanish and to continue improving his or her Spanish grammar. It is designed for the monolingual Spanish speaker, the bilingual student (Spanish/English), and/or students who have already acquired advanced Spanish-speaking skills. A variety of readings on Hispanic literature, culture, and current events will continue to be included.

### **Spanish Language III/Bilingual**

Fee None  
Prerequisite “C” or better in Spanish Bilingual I & II or teacher recommendation  
1 Credit  
Grades 11-12

This course is a continuation of Spanish Bilingual III at a more advanced level. Greater emphasis is placed on grammar and communicating orally in Spanish and enhancing technical writing and reading. Students are required to read independently and write descriptive essays and papers. Also, projects will be ongoing throughout the year.

### **Spanish Language IV/Bilingual**

Fee None  
Prerequisite "C" or better in Spanish Bil I, II & III or teacher recommendation  
1 Credit  
Grades 11-12

This course is a continuation of Spanish Bilingual II at a more advanced level. Greater emphasis is placed on grammar and communicating orally in Spanish. Students are required to read independently and write descriptive essays and papers. Also, projects will be ongoing throughout the year. Projects will have emphasis on careers, knowledge of paintings and painters, authors, and current events through the use of newspapers, magazines, books, and/or on the Internet.

### **Spanish Language & Culture/Bilingual – Advanced Placement**

Fee None  
Prerequisite "B" or better in Spanish Bil I, II & III or teacher recommendation  
1 Credit  
Grades 11 -12

This course is designed for junior and senior bilingual students wishing to develop greater proficiency in Spanish. Students will benefit from a thorough grammar review while enhancing their reading comprehension, writing, listening, and speaking skills. Cultural enrichment utilizing Spanish literature, native speaker media, and periodicals will enhance language proficiency and prepare students for the AP Spanish Language & Culture exam. In order to achieve these goals, this course will be conducted entirely in Spanish and students will be expected to communicate in Spanish with the teacher and the other students.

Students who are seniors, but not bilingual students, can register with teacher recommendation, and they need to have a grade of "B" or higher in Spanish III - Honors as a Foreign Language. This course is one of the requirements for getting the bilingual seal according to the new regulations of the PED. In order to apply for the bilingual seal, junior bilingual students must pass the AP exam with a grade of "C" or higher before graduation.

### **Navajo Language I/Bilingual**

Fee None  
Prerequisite None  
1 Credit  
Grades 9-12

Open to all students interested in learning the Navajo Language. This course is designed to develop basic speaking, reading, writing and listening skills in Navajo. Student will learn simple sentence structure and conversation. In addition there will be an emphasis to learn to translate sentences from Navajo to English and vice-versa. Selected readings will include Navajo literature, culture and history, music and current events.

### **Navajo Language II/Bilingual**

Fee None  
Prerequisite "C" or better in Navajo I  
Grades 10-12

This course is a continuation of Navajo I at a more advanced level. It is designed to improve speaking, reading, writing and listening skills in Navajo. More emphasis will be on grammatical structure and the ability to communicate orally in Navajo. Students are required to give oral presentations. A variety of reading, writing on Navajo literature, culture and history, music and current events will continue to be included.

### **Navajo Language III/Bilingual**

Fee None  
Prerequisite "C" or better in Navajo I & II or teacher recommendation  
1 Credit  
Grades 11-12

This course is a continuation of Navajo II at a much more advanced level. Greater emphasis is placed on grammar and communicating orally in Navajo. Students are required to give more presentations, read and write descriptive literature, and study the history, culture, music, and current events focusing on the Navajo language.

### **Navajo Language IV/Bilingual**

Fee None  
Prerequisite "C" or better in Navajo I, II & III or teacher recommendation  
1 Credit  
Grades 11-12

This course is a continuation of Navajo III at an even more advanced level. Greater emphasis is placed on grammar and communicating orally in Navajo. Students are required to read independently and write descriptive essays and papers. There will be individual and group projects throughout the year.

## Independent Programs

### AP Capstone Year 1 – AP Seminar

Fee None

Prerequisite None

1 Credit

Grades 9-11

AP Seminar is the first course offered in the AP Capstone program. AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn how to: investigate academic and real-world topics from multiple perspectives, gather and analyze information from various sources, develop credible and valid evidence-based arguments, conduct research and evaluate evidence, collaborate in teams, and communicate using appropriate media. The course centers around a team project and presentation, individual research based essay and presentation and an end of course AP-exam. Students who complete the AP Seminar have the option of completing AP Research (offered beginning Fall 2016) and earning the AP Capstone graduation designation.

### AP Capstone Year 2 – AP Research

Fee None

Prerequisite AP Capstone Year 1 – AP Seminar

1 Credit

Grades 10-12

Students who are currently taking AP Seminar will continue the AP Capstone program in AP Research, where an independent research project on a topic of interest to the student will be completed.

### Drivers Education

Fee None

.5 Credits

Grades 9-12

All individuals under the age of 18 who desire a New Mexico Driver's license must take the classroom portion of Driver's Education. Students must be at least 15 years of age by the time the course ends to enroll. This class meets the New Mexico State requirements of 60 classroom hours and includes the DWI requirement. Students must complete 56 hours and pass with an 80% to receive the certificate needed to then take the Provisional test given by the Dept of Motor Vehicles. This class is conducted 0 hour (class is from 6:45 a.m. to 7:45 a.m.) Students will register for this class by a random drawing after the beginning of each semester. Announcements will be made regarding sign-up procedures. Good attendance is mandatory for this class! If a student has 3 absences, (being sick is NOT a reason) the student will be dropped from the class and WILL NOT receive credit or a certificate of completion.

### **Enrichment Seminar**

Fee None

Prerequisite None

1 Credit

Grades 9-12

A course that will focus on the development of critical writing, research, and interpersonal skills, as well as developing habits, motivations, organizational, and study skills that students will use throughout their lives.

### **Human Geography - Advanced Placement**

Fee None

Prerequisite 2.5 GPA minimum

History teacher recommendation

1 Credit

Grades 9-12

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the earth's surface. Students will learn about the methods and tools geographers use in their science and practice. The student taking this course must be committed to the subject matter and to dealing with college level materials. Students will concentrate on critical thinking, problem solving, interpretation of maps, geography-based projects, in-depth writing and discussion in preparation for the national AP HUMAN GEOGRAPHY exam in the spring. The student's test scores from the College Board are used by universities to award college credits upon enrollment.

### **Mock Trial 1**

Fee None

Prerequisite None

1 Credit

Grades 9-12

The students learn proper court proceedings and 'try' several cases prepared for their use. Students will have the opportunity to work as witnesses and attorneys learning legal terms and rules. This course emphasizes creativity, critical thinking, organization, and high-level evaluation of situations. There will be a mandatory competition in February in Albuquerque that class members must participate in order to be in the class. This class is NMAA approved and students must maintain a 2.0 in order to compete in the competitions.

### **Mock Trial 2 and 3**

Fee None

Prerequisite Successful completion of Mock Trial 1

1 Credit

Grades 10-12

This class is a continuation of Mock Trial 1. The students learn proper court proceedings and 'try' several cases prepared for their use. Students will have the opportunity to work as witnesses and attorneys learning legal terms and rules. This course emphasizes creativity, critical thinking, organization, and high-level evaluation of situations. There will be a mandatory competition in February in Albuquerque that class members must participate in order to be in the class. This class is NMAA approved and students must maintain a 2.0 in order to compete in the competitions.

## **Senior Project**

Grade 12

Senior Exhibition is a graduation requirement at Piedra Vista High School and is completed within the Principles of Democracy or AP U.S. Government class during senior year. Students choose from Community Service, Career Investigation, and Academic Research projects. The student writes a proposal, gets it approved, and requests, and works with a community mentor to complete 30 hours of project work, and works with a faculty mentor to complete a presentation. Students choose their presentation date to complete tasks, on a grading rubric for a grade each nine weeks. The project culminates in a student written, oral and technology presentation before a community panel. For more information, please refer to the PVHS web site.

## Mathematics

### Algebra 1

Fee None  
Prerequisite None

1 Credit

Grades 9-12

This course stresses the basic principles of Algebra necessary for further work in mathematics and is the pre-requisite for Geometry. Most colleges specify Algebra as an entrance requirement. This course is required for graduation. Students must have access to a scientific or graphing calculator.

### Financial Literacy Math

Fee Students will be asked to purchase supplies  
Prerequisite None

1 Credit

Grades 11-12

Would you like to manage money, avoid debt and build wealth? Do you know how money works? If not, then take this class. You will be exposed to the following areas of financial planning and money management: Budgeting, checking accounts and banking, credit cards and loans, purchasing homes and vehicles, insurance, investing and retirement planning.

### Geometry

Fee None  
Prerequisite Algebra 1

1 Credit

Grades 9-12

Geometry is the study of two and three-dimensional objects from a variety of approaches. This class reinforces and extends knowledge of Algebra and develops an understanding of deductive and inductive proofs. Most colleges do not teach Geometry, so this may be the student's only opportunity to take this course. Most colleges require geometry for admission. Students must have access to a scientific or graphing calculator.

### Applied Math

Fee \$5.00  
Prerequisite Algebra 1 and Geometry

1 Credit

Grades 11-12

This course is for 11th and 12th graders who have successfully completed Algebra 1 and Geometry and are planning to pursue some type of vocational training after high school. Students must have access to a scientific or graphing calculator.

## **Algebra 2**

Fee None  
Prerequisite Algebra 1 and Geometry  
1 Credit  
Grades 9-12

This course is for 11th and 12th graders who plan to pursue any type of post-secondary education. The course is a continuation of Algebra 1 and Geometry and will prepare students for any introductory level college mathematics course. Algebra 2 uses algebraic expressions and formulas for studying functions and modeling real world situations. Concepts learned in previous classes will be expanded upon as well as introductions to new topics such as matrices, conic sections, and trigonometry. Students must have access to a graphing calculator.

## **Algebra 3**

Fee None  
Prerequisite Successful completion of Algebra 1, Geometry, and Algebra 2  
1 Credit  
Grades 10-12

This course is designed to build the foundation necessary for success in an entry-level postsecondary mathematics course. It reinforces a variety of mathematical skills through investigations and problems solving of real-world applications. The objectives for this course are based on the goals and objectives of the ACT. Students must have access to a graphing calculator.

## **Probability and Statistics**

Fee None  
Prerequisite Algebra 1 and Geometry  
1 Credit  
Grades 10-12

This course is designed as an introduction to the study of probability and statistics using hands on activity based approach. The four major topics are descriptive statistics (one and two variable), producing data, probability and inferential statistics. Students must have access to a graphing calculator.

## **Statistics - Advanced Placement**

Fee None  
Prerequisite Algebra 2  
1 Credit  
Grades 10-12

Students are expected to take the AP Statistics Exam. This class is a college-level statistics class that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Most college majors now require at least one college course in statistics. The Statistics Advanced Placement Exam will be administered near the end of the second semester, allowing the student the possibility of earning college credit for this course. Students must have access to a graphing calculator with statistical capabilities.

### **Precalculus/Trigonometry**

Fee None  
Prerequisite "B" or better in Algebra 2 is recommended  
1 Credit  
Grades 10-12

This is a college preparatory course for students who are planning a career in mathematics, science, engineering or a related field. It is an extensive study of functions and trigonometry, which will prepare the student for Advanced Placement Calculus or a college level calculus class. Students must have access to a graphing calculator.

### **Calculus AB - Advanced Placement**

Fee None  
Prerequisite Precalculus with Trigonometry  
1 Credit  
Grades 11-12

Students are expected to take the AP Calculus AB Exam. This class covers the topics of a first semester college Calculus course. The major topics covered are the study of function, graphs and limits, and the applications of derivatives and integrals. The Advanced Placement Calculus AB exam will be administered near the end of the second semester, allowing the student the possibility of earning college credit for this course. Students must have access to a graphing calculator.

### **Calculus BC - Advanced Placement**

Fee None  
Prerequisite Advanced Placement Calculus AB  
1 Credit  
Grade 12

Students are expected to take the AP Calculus BC Exam. This class covers the topics of a second semester college Calculus course. Calculus BC is an extension of Calculus AB. The major topics covered are a continuation of applications of derivatives and integrals, differential equations, and polynomial approximations and series. The Advanced Placement Calculus BC exam will be administered near the end of the second semester, allowing the student the possibility of earning college credit for this course. Students must have access to a graphing calculator.

### **Algebra I, Int Lab – Elective Only**

Does not count as one of the four math credits required for High School Graduation.  
Fee None  
Prerequisite Teacher Recommendation  
1 Credit  
Grades 9-10

This class will be offered in conjunction with a regular Algebra I course and will offer the extra support some students may need in order to be successful in the regular course. The teacher of this course will be guided by the Standards-based core curriculum of the regular course and will emphasize the skills, concepts and processes needed by the students. An intervention program can be thought of as a cycle consisting of three phases: diagnostic assessment, instructional actions and follow-up assessments.



## Physical Education

### IMPORTANT NOTICE

STUDENTS ARE NOT PERMITTED TO ENROLL IN TWO PHYSICAL EDUCATION CLASSES WITHIN THE SAME ACADEMIC SEMESTER.

### Physical Education (“Team Sports” In PowerSchool)

Fee None

Prerequisite None

1 Credit

Grades 9-12

PE uniform required is navy blue shorts, white shirt, and workout shoes.

All students must take this course for graduation in the state of NM. Students will learn to participate in a physically active lifestyle, achieve and maintain a health enhancing level of physical fitness, understand the benefits of physical activity (enjoyment, challenge, self-expression, and social interaction), demonstrate responsible personal and social behavior and applies movement concepts and principles to the learning and development of motor skills. This class will include but not limited to the following: Running/Walking and other cardiovascular exercise, body weight exercises, and weightlifting basics.

### Weightlifting I

Fee None

Prerequisite None

1 Credit

Grades 9-12

PE uniform required is navy blue shorts, white shirt, and workout shoes.

Basic knowledge of physical fitness (muscular strength, muscular endurance, flexibility, cardiovascular endurance, body composition), large muscle group location and function, training principles, and all aspects of Wellness are required for this introductory course focusing on the basic skills and techniques of weightlifting. Weightlifting will be the primary activity of the class to develop knowledge of proper exercises/lifts to tone and increase muscle mass. Weekly cardiovascular activity will be included in this class. Students will learn proper safety, lifting exercises, muscles focused upon in exercises, and obtain the ability to use weightlifting as a lifetime physical activity.

### Weightlifting II

Fee None

Prerequisite Weightlifting I

1 Credit

Grades 11-12

PE uniform required is navy blue shorts, white shirt, and workout shoes.

This class will allow students to develop their own personal workout routines and schedules based on the principles taught in Weightlifting I. Weekly cardiovascular activity will be included in this class. Developing personal workout routines will include manipulation of sets, repetitions, and tempo of exercises/lifts according to each student's individual goals. Students will also gain knowledge of more advanced lifts including small muscle group lifts (deltoids, extensors, flexors, erectors.) Proper safety, lifting exercises, muscles focused upon in exercises, and the practice of their personal workout is vital aspects of the class.

### **Weightlifting III**

Fee None  
Prerequisite Weightlifting I & II  
1 Credit  
Grade 12

PE uniform required is navy blue shorts, white shirt, and workout shoes.  
This class will give students the knowledge, skills, and technique for Weightlifting using knowledge gained in Weightlifting II. Weekly cardiovascular activity will be included in this class. The focus will be to use proper exercises/lifts to increase and build muscle mass and strength using advanced lifts, such as power cleans, snatch squat, dead lifts, heavy squats, full squats, clean and jerk, front squats, jump squats, push press, power press, high pulls. Proper safety, lifting exercises and muscles focused upon in exercises will be included as vital aspects of this class.

### **Lifetime Activities**

Fee \$25.00 (Fee may not cover all activity expenses.)  
Prerequisite Physical Education 2305  
1 Credit  
Grades 11-12

Must have a valid driver's license and provide own transportation.  
PE uniform required is navy blue shorts, white shirt, and workout shoes.  
This class will involve lifetime leisure activities. Students will be instructed in personal physical fitness goals and best practices for lifetime fitness and demonstrate enjoyment and proficiency in a variety of lifetime leisure activities. Students must be able to provide their own transportation to and from those activities that take place off PVHS campus. The lifetime activities will include: training principles, body composition, exercise safety and health assessment, golf, climbing, kayaking, orienteering, racquetball, softball, snowshoeing, backpacking, skiing/snowboarding.

### **7th Hour Interscholastic Sports**

Fee \$25.00  
Prerequisite Coach/Teacher Approval  
Skill level tryouts as established by coach/sponsor

1 Credit  
Grades 10-12

This course is designed to give instruction in advanced skills, knowledge and conditioning in interscholastic athletics designed for the serious student athlete. Classes will touch on a wide variety of athletic and sport relative topics. Classes have four levels with increasing expectations.

Sports include:

Baseball I, II, III, IV  
Basketball I, II, III, IV (Boys)  
Basketball I, II, III, IV (Girls)  
Football I, II, III, IV  
Soccer I, II, III, IV (Boys)  
Soccer I, II, III, IV (Girls)  
Softball I, II, III, IV  
Tennis (Boys & Girls)

### **Fitness and Strength**

Fee PE Uniformed Required: Navy blue shorts, white shirt, workout shoes

Prerequisite Physical Education or Team Sports

1 Credit

Grades 10-12

This class will have an aerobic and anaerobic focus for students using basic knowledge of physical fitness (muscular strength, muscular endurance, flexibility, cardiovascular endurance and body composition,) training principles, and all aspects of Wellness, including nutrition. Workouts will include Crossfit structured workouts. This course is not for a physical education credit.

### **Health**

Fee None

Prerequisites None

.5 Credits

Grade 9

This class is required for all 9th grade students for graduation by the State of NM. Students will gain knowledge of the dangers of Decision Making, Goal Setting, Stress Management, Nutrition, Tobacco, Alcohol, Drugs, Reproduction, Sexually Transmitted Infections and HIV. This will be a preventative education class, which will allow students to gain knowledge of the specific dangers as well as role-play activities in order to instill refusal skills for the student. All students are required to pass the Health End-of-Course exam.

# **ARMY JROTC**

## **Army Junior Reserve Officer Training Corps (JROTC)**

Fee                               None  
Prerequisite                   None

1 Credit  
Grades 9 -12

Stated objectives of the program include: patriotism and good citizenship; leadership; self-reliance, and responsiveness to authority; knowledge of basic military skills; and appreciation of the importance of physical fitness; effective oral and written communication. To successfully pass this class students are required to wear the JROTC uniform one day per week. There will be a number of optional out of class and weekend travel and competition opportunities.

### **JROTC I**

Fee                               \$25.00  
Prerequisite                   None

1 Credit  
Grades 9-12

Drill and Leadership -- Course includes basic level of: citizenship, communication, decision-making skills, leadership, map reading, US military history, first aid, survival and physical fitness. Optional activities are: Color Guard, Drill Team, Rifle Marksman Team, and Raider Team.

### **JROTC II**

Fee                               \$25.00  
Prerequisite                   JROTC I

1 Credit  
Grades 10-12

Drill and Leadership II / Communication Skills -- Course is the advanced class level that builds on fundamentals learned in ROTC I. Completion of this course may allow student graduation communication skills credit. Course includes: leadership training and opportunities to learn cadet staff functions, first aid, map reading, American military history, Citizenship in American History and Government, health physical fitness, career opportunities, technology awareness, financial planning (National Endowment for Financial Education) role of US Army, marksmanship and safety. Optional activities: Cadet Company level staff, Color Guard, Drill Team, Rifle Team, and Raider Team.

### **JROTC III**

Fee \$25.00  
Prerequisite JROTC II  
1 Credit  
Grades 11-12

Drill and Leadership III / Physical Education This is the junior level course. Completion of this course may allow student graduation credit for physical education. Emphasis is on leadership and training. Cadets in this year will comprise the Company staff with the responsibility to plan, coordinate and execute cadet activities and functions. Course includes: communication, leadership, cadet challenge, map reading, military history, role of US military forces, staff planning, human relations, military justice system and physical fitness. Optional activities: Cadet Battalion staff assistants, limited class peer instructors, leadership opportunities in: Color Guard, Drill Team, Rifle Team, and Raider Team.

### **JROTC IV**

Fee \$25.00  
Prerequisite JROTC III  
1 Credit  
Grade 12

Drill and Leadership IV This is the senior level course. Emphasis is on leadership and training. Cadets in this year will comprise the Battalion staff with the responsibility to plan, coordinate and execute cadet activities and functions. Course includes: communication, leadership, Cadet Challenge, map reading, military history, role of US military forces, lesson preparation and presentation, human relations, military justice system and physical fitness. Optional activities: Cadet Battalion staff, assistant instructors, leadership of Color Guard, Drill Team, Rifle Team, and Raider Team.

### **LET II/III/IV JROTC Leadership/Special Team Practicum**

Fee None  
Prerequisite JROTC II, III or IV and NMAA Academically Eligible  
1 Credit  
Grades 10-12

This course supplements the full JROTC curriculum by providing opportunities to practice advanced Drill and Ceremony and Marksmanship. It is focused on advanced members of the Drill/Color Guard/Marksmanship teams. The teams will conduct training in Drill and Color Guard and Marksmanship focusing on preparation for competitions and exhibitions.

### **JROTC Practicum (Zero Hour)**

Fee None  
Prerequisite JROTC I, II, III or IV  
1 Credit  
Grades 9-12

Leadership and Special Team This is a Zero-hour course. It supplements the full JROTC curriculum by providing opportunities to practice leadership and specific training skills. The cadet chain of command will coordinate JROTC activities, competitions and school support activities. Special teams will conduct training in Drill, Raider, Color Guard and Rifle Marksmanship.

## Science

Important: All high school level science classes taught in Farmington Municipal Schools are taught as college preparatory classes. Most college and universities recommend a student take four [4] science courses. Graduation requirements include a physical science and a biology course (both lab science classes), plus one more science credit for a total of three credits. It is wise to consult a counselor and a college course catalog to determine which classes are appropriate to your educational goals.

***A Physical Science course is required for all freshmen. Choices include:***

### **Physical Science (Science Fair) – Honors**

Prerequisite Algebra I – or a grade of B or better in pre-Algebra

1 Credit

Grade 9

Pre-Advanced Placement Physical Science is an open enrollment class designed for those students who are interested in taking a more challenging science class at the ninth grade level. First semester will focus on beginning concepts of chemistry. The second semester will focus on earth science topics and end with a review of physics material. Students should expect to see math incorporated in class material. The class introduces physics and chemistry and includes special projects and speakers; 20% of class time will be spent in laboratory experiences; therefore, it will count as a lab science toward graduation. This class includes the required component preparing a Science Fair Project, which must be presented and defended in all competitions for which the student qualifies. Credit for this course cannot be in addition to credit received in Physical Science.

### **Physical Science**

Prerequisite None

1 Credit

Grade 9

Physical Science is a course designed for the majority of students at the ninth grade level. First semester will focus on beginning concepts of chemistry. The second semester will focus on earth science topics and end with a review of conceptual physics material. 20% of class time will be spent in laboratory experiences; therefore, it will count as a lab science toward graduation. An independent science project will be required. Credit for this course cannot be in addition to credit received in Physical Science Honors.

***A Biology course is required for all sophomores. Choices include:***

**Biology – Honors**

Prerequisite                      Physical Science or Physical Science Honors

1 Credit

Grades 10-12

This class prepares the student for college or Advanced Placement Biology. This class presents the main principles of biology largely from the perspective of molecular biology and focuses on structures such as cells and genes and the process related to them. The course then progresses to organs and systems because all of the parts and their processes ultimately are exhibited in the entire organism. Biology looks at the nature of science and asks students to use the intellectual tools of inquiry that are common to all of science. Classroom activities include lecture and 20% of class time will be spent in laboratory activities, for which a lab composition book is required. Successful completion of two semester's work will satisfy one credit of laboratory science. Course requirements include special projects. Credit for this course cannot be in addition to credit received in any other Biology course except A.P. Biology.

**Biology**

Prerequisite                      Physical Science or Pre A.P. Physical Science

1 Credit

Grades 10-12

Students are presented with methods of investigating and exploring the biology of cells, genetics, classification and characteristics of living organisms, and ecology. 20% of class time will be spent in laboratory related activities. Course requirements include on and off campus field studies. Requirements include special projects. Successful completion of two semester's work will satisfy one credit of laboratory science. Credit for this course cannot be in addition to credit received in Honors Biology.

**Biology - Advanced Placement**

Prerequisite                      Biology

Fee                                      \$20.00

1 Credit

Grades 11-12

This course is a college equivalent experience with strong emphasis on laboratory activities. The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. This course differs from regular biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. Labs are intended to challenge students' abilities to understand problems, develop and implement appropriate experimental designs, manipulate data, draw conclusions, think analytically and develop hypotheses. Students are challenged from the important areas of chemistry, cell structure, and function, energy transformation, molecular genetics, heredity, plant structure and physiology, animal structure and physiology and ecology. The AP Biology course is to be taken by students after the successful completion of a first course in high school biology. Students enrolled in AP Biology should schedule five hours a week of unsupervised study time.

## **Chemistry**

Prerequisite Physical Science  
10th grade requires 'C' or better in algebra I  
11th or 12th grade requires algebra I passed

Lab Fee \$20.00

1 Credit

Grades 10-12

This course is designed for the college-bound student. Fundamental concepts will be covered, including basic problem solving skills, naming and writing chemical formulas, and predicting reaction products, study of stoichiometry, and gas laws. The second semester will include thermochemistry, kinetics, solutions, molecular geometry, equilibrium and acid-base systems. Activities include pre-reading, lecture, computer presentations, classroom work, homework, and laboratory experiments. Successful completion of two semesters satisfies one of the credits of laboratory science required for graduation. A non-programmable scientific calculator is required for all tests.

Prerequisites: Physical science, Algebra 1 passed with a C or above. (Students should be concurrently enrolled in Algebra II or higher)

## **Chemistry - Advanced Placement**

Prerequisite Chemistry, Physical Science and College Prep Biology

Lab Fee \$20.00

1 Credit

Grades 11-12

This course is a college equivalent experience that builds on concepts presented in the Chemistry class. This includes the study of the structure of matter, properties of matter, chemical reactions, kinetics, thermochemistry and thermodynamics, and equilibrium.

This has both a lecture class and lab class that must be taken together. There is a strong emphasis on laboratory activities and problem solving techniques that will prepare students for the nationally administered AP Chemistry exam as well as the SAT Chemistry test. A favorable score on the AP Chemistry exam may allow a student up to eight hours of college classroom and laboratory credit. Students enrolled in AP Chemistry should expect to do a minimum of eight hours of work outside the class each week, including participation in study groups.

## **Environmental Science - Advanced Placement**

Prerequisite Physical Science, Honors Biology (or currently enrolled)

Fee None

1 Credit

Grades 10-12

This course involves the study of earth systems and resources, eco-systems, the earth's human population trends, land and water use, energy resources and consumption, and pollution. This course should tie Earth Science, Ecology, Physical Science and our uses of the earth into one course. This course is equivalent to one semester college environmental science course.

## **Geology**

Prerequisite Physical Science and Biology

Fee \$10.00 Lab Fee

1 Credit

Grades 11-12

This course includes the study of minerals and rock types, elements of erosion, volcanism, plate tectonics, geologic formations, earthquakes, soil, injection wells and a brief history of the earth. This course structure is a mix of lecture and laboratory activities. Completion of this course meets the requirement for lab science.

## **Human Anatomy/Physiology I**

Prerequisite Physical Science & Biology course

Teacher approval for required for 10th graders

Fee \$20.00

1 Credit

Grades 11-12

This course is an introduction to human anatomy and physiology. The course will define medical terminology, including prefixes, suffixes and medical root words. Students will study the organization of the human body and the function of each level, the systems of the human body how body systems work together, and injuries, illnesses, and disease of the human body. This course is recommended for students interested in a career in the medical field, students that want to learn more about their own body, or students wanted to go into any science related field. The course will include lecture, hands on activities, and labs (students should be prepared to do in class dissections). Completion of two semesters of this course satisfies one credit of lab science.

## **Human Anatomy/Physiology II**

Prerequisite Physical Science, Biology, Human Anatomy & Physiology I

Fee \$20.00

1 Credit

Grades 11-12

This course is a continuation of human anatomy I and physiology and I. This is designed for students interested in a medically related field. This course will help prepare students for college anatomy and physiology. Specific areas of study will include; in depth skeletal and muscular anatomy, the anatomy, physiology, etiology, treatment and management of injuries, illnesses and diseases, introduction to nutrition, and the body's healing processes.

## **Physics**

Prerequisite                 Geometry (Concurrently taking)  
                                      Algebra I (Grade of B or better).

Fee                                 \$20.00

1 Credit

Grades 11-12

This course is designed to prepare students for first-year college level physics. The areas of study include Newtonian mechanics, energy, thermodynamics, light, electricity, and magnetism. Emphasis is on problem solving with demonstrations, projects, and laboratory activities. Successful completion of two semesters' work will satisfy one credit of laboratory science. Students must be proficient in algebra, since this is a mathematically intense course. A scientific calculator will be required. Students will earn a grade for participation in a science competition including Science Fair or Science Olympiad.

## **Physics (C) – Advanced Placement**

Prerequisite                 Algebra II (with a grade of B or better)

Fee                                 \$20.00

1 Credit

Grades 11 – 12

AP Physics C is a calculus-based physics course emphasizing the principles of mechanics that will form a foundation for college studies in science, engineering and technology. The course is rigorous and will require the student to be highly motivated and to spend 5 to 10 hours out of class weekly doing coursework. The course will be designed to prepare the student for the AP Physics C test offered at the end of the school year and will meet all of the College Board requirements. Students will be required to have a graphing calculator available.

## **Zoology**

Prerequisite                 Biology

Fee                                 \$20 Lab Fee

1 Credit

Grade 11 - 12

This course is designed to familiarize students with the animal kingdom. Areas of study include animal anatomy, taxonomy, ecology, evolution, and behavior. The course is lab based with an emphasis on dissection and field activities. Student lab fees cover the cost of dissection materials. Fall semester begins with the study of simple animals and continues through more complex animals. Once this is completed students will study the relationships between organisms including ecological systems and the diversity of life upon Earth. Students will gain a perspective of the role we play as stewards and managers wildlife. Guest speakers and different wildlife will be a part of the classroom experience.

### **Athletic Training**

Prerequisite Biology (previously taken or currently enrolled)

Fee \$10.00 Materials fee

1 Credit

Grades 10-12

#### **Elective Only – Does NOT count for Science Credit**

This course is designed to introduce students to the physiology, psychology and kinesiology of sports, with a focus on techniques to improve performance and prevent injury and illness associated with sports. Students will learn different aspects of sports including sports related careers, sports nutrition, general health, training techniques, and sports related injuries and conditions. In addition, students will learn about human movement with emphasis on the biomechanics and the structure and function of the skeletal and muscular systems. This course does not count towards fulfilling the science graduation course requirements.

### **Science Lab Assistant**

Fee None

Prerequisite 3.0 GPA and teacher approval

1 Credit

Grades 11-12

#### **Elective Only – Does NOT count for Science Credit**

Does not satisfy the one credit of laboratory science required for graduation. Two strands' work will earn one elective credit. This class is for students with an expressed interest in the field of science. Assistance is given to teachers in laboratory instruction and preparation. Students should secure written permission from a teacher in the science department prior to registration. It is not to be taken more than once during high school career.

### **Intro to Engineering – Power and Energy I**

Fee None

Prerequisite None

1 Credit

Grades 9-11

**This class is a lab science credit.** This course engages students in a variety of hands-on, authentic projects to learn about energy and power methods through the design and construction of motors, pumps, heat exchangers, hydraulics and pipeline systems. These are the technologies used in large power plant systems to run and maintain processes in energy generation plants. Through contextual projects, students will learn and apply physics, chemistry, fluid mechanics, thermodynamics, algebra and statistics in learning how these systems interact in the energy and power arena. Students will learn how engineers and technicians use these systems in the real world to optimize efficiency.

## **Energy Transmission and Distribution – Power and Energy II**

Fee None

Prerequisite None

1 Credit

Grades 10-12

**This class is a lab science credit.** The course continues from Energy and Power Foundations to consumer usage and includes the introduction to AC/DC power, transformers, the electrical grid and Smart Grid, and consumer load on the electrical system. Students use Ohm's Law, Joules Law of heating, the Root Mean Square Law, the Pythagorean Theorem and trigonometric principles to understand how energy travels along power lines and is converted from direct current to alternating current to end up, ultimately, in homes and businesses. Students gain a conceptual understanding of how power companies move power, stepping it up and down to meet the needs of the end-user by designing working transformers, capacitors, inverters, and a power supply.

## **Social Studies**

### **New Mexico History - Required for Graduation**

Fee None

Prerequisite None

.5 Credit

Grade 9

NM History is a required credit for all students graduating in 2009 and after. The course is one semester long and will examine and research the social, political and economic history of New Mexico primarily in the 20th Century. It will analyze significant patterns and turning points since statehood in 1912.

### **World History/Geography**

Fee None

Prerequisite None

1 Credit

Grade 10

Required for graduation

This course introduces the essential components of human history including anthropology, economics, government, religion, social interaction and geography. The course survey begins around 1500 C.E. and continues to the present. Discussions, current events, research papers, oral presentations, simulations etc. will be employed as teaching devices.

### **World History - Advanced Placement**

Fee None

Prerequisite Minimum 2.5 GPA & signed course contract

1 Credit

Grade 10

Fulfills World History Graduation Requirement.

This course highlights the nature of changes, their causes and consequences in world history and in international frameworks. The course focuses primarily on 500BC-2000 AD in the global experience, building on an understanding of cultural and technological changes prior to 500 BC. The student taking this course must be committed to the subject matter and to dealing with college level materials. Students will concentrate on critical thinking, problem solving, document based questions, in-depth writing and discussion in preparation for the national AP World History exam in the spring. The students test scores from the College Board, are used by Universities to award college credits upon enrollment.

### **U.S. History/Geography**

Fee None

Prerequisite None

1 Credit

Grade 11

Required for Graduation.

The student will study the history of the United States, from 1868 to the present, including the major historical movements and the factors, personalities, and geography, which contributed to them. A variety of activities will take place in the classroom such as group work, panel discussions, lectures, individual projects, research projects, debates and simulations.

### **U.S. History/Geography– Advanced Placement**

Fee None

Prerequisite Minimum 2.5 GPA & signed course contract

1 Credit

Grade 11

Fulfills U.S. History Graduation Requirement

If the student has already completed a US History course this course can be used as an elective. The AP US History course is designed to provide the student with analytical skills and factual knowledge necessary to deal critically with the issues and documents of US History. The student taking this course must be committed to the subject matter and to dealing with college level materials. Students will concentrate on document analysis, essay writing, research methods and writing, and much class discussion. Students are expected and encouraged to take the national AP Exam in early May. Student test scores from the College Board, are used by Universities to award college credits upon enrollment.

### **Principles of Democracy**

Fee None

Prerequisite None

1 Credit

Grade 12

Required for graduation.

The Principles of Democracy course is a graduation requirement. The Government portion analyzes the workings of the state, federal and local governments. Major political institutions, interest groups, voting behavior and constitutional rights and responsibilities are the main topics. The Economics aspect focuses on the elements of U.S and global microeconomics and macroeconomics with an emphasis on consumerism and the events and processes that shape the global, national and local economies. Research papers, oral presentations, discussions and simulations will be employed.

