

# PIMA HIGH SCHOOL COURSE CATALOG

## 2016-2017



### ARTS – AUDIO, VISUAL, & PERFORMANCE

#### **DANCE (Performance)**

Dance education at Pima High School provides all students with the opportunity to acquire a comprehensive knowledge of dance as an art form. Students learn and refine dance skills and techniques in class and in performance, study the historical and cultural significance of dance and its evolution as an art form, and evaluate personal work and the work of others. Course goals are as follows:

- Gain significant knowledge of dance elements, principles, and concepts
- Develop and apply an understanding of basic principles of choreography
- Apply knowledge, skills, and techniques of dance in formal dance presentations
- Build personal criteria for the evaluation of non-professional and professional dance performance and study
- Effectively communicate ideas, thoughts, and feelings through dance.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* None

#### **DANCE (NON-Performance)**

Dance education at Pima High School provides all students with the opportunity to acquire a comprehensive knowledge of dance as an art form. Students learn and refine dance skills and techniques in class and in performance, study the historical and cultural significance of dance and its evolution as an art form, and evaluate personal work and the work of others. Course goals are as follows:

- Gain significant knowledge of dance elements, principles, and concepts
- Develop and apply an understanding of basic principles of choreography
- Apply knowledge, skills, and techniques of dance in formal dance presentations
- Build personal criteria for the evaluation of non-professional and professional dance performance and study
- Strengthen and condition physical self through Dance

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* None

### ARTS – MUSIC

#### **BEGINNING GUITAR**

Beginning Guitar introduces students to the fundamentals of music and guitar-playing techniques, such as strumming and chords. This course may also include more advanced guitar-playing techniques.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* None

*Fee Required:* Students may be asked to purchase or rent a beginning guitar based on availability.

#### **HIGH SCHOOL BAND**

The Pima High School Band/ Marching Band meets one period a day throughout the school year. The marching band performs at football games and selected band festivals in the fall. Consisting of wind and brass players as well as drummers and color guard members, the marching band represents a group of dedicated, hard working, responsible students. As a result of their effort, the members of the marching band are widely recognized throughout the school for their contributions to the school and the community. The Marching Band season begins in August and ends after the State Marching band competition held in November. After marching band is over, high school band starts up and jazz and concert music are played. Two concerts are held during the school year, with the first concert being in December and the second concert being in May. Participation in the band is open to any student willing to work and learn. It is a terrific opportunity for freshmen to work with many of our finest musicians, arriving at high school in the fall with a group of helpful, talented friends.

*Fee Required:* \$60 Participation Fee  
*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* None

## SHOW CHOIR

Auditions for this group are held at the end of the school year for the following year. A meeting will be held to discuss the audition process. If the student can't attend the meeting, it is their responsibility to contact the director to get information. Each student will be expected to audition for the regional choir the last weekend of January. Any exceptions must be approved by the director. Performances range from singing the national anthem at sporting events to full performances throughout the community. Students will be graded on performance attendance. Students will perform a variety of music including pop, swing, jazz and some classical music. Physical ability to perform dances is a critical component. Students will also learn basic elements of sight-reading music.

*Prerequisite:* Audition Required  
*Fee Required:* \$60 Participation Fee  
*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

## HIGH SCHOOL CHOIR

This is a non-auditioned group. Everyone is welcome to join. Students will learn fundamentals of good singing technique as we prepare for the required performances. Grades are based on performance attendance, classroom participation and progress made in sight-reading and vocal technique.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* None

## A CAPELLA

This Course is a small vocal ensemble that meets zero hour. This ensemble requires an audition in the spring. The group will perform as male and female quartets as well as combined. Participants will perform modern adaptations of pop and jazz music following the voicing of the a capella style. One member will audition to split time as a vocalist and vocal percussionist/beat boxer.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* Audition, must enroll in Show Choir

## CAREER AND TECHNICAL EDUCATION (CTE)

### BUSINESS EDUCATION

#### Business Education equips students with:

- *Core academic skills and the ability to apply these skills in the work place*
- *Employability skills*
- *Job specific, technical skills*
- *Academic subject matter taught with relevance to the real world*
- *Employability skills, from job-related skills to workplace ethics*

#### Pima High School has two state approved business programs.

- *Accounting and Related Services*
- *Business Operations Support and Assistant Services*

#### Future Business Leaders of America (FBLA)

- *A high school organization for students interested in business*
- *FBLA Mission: "To bring business and education together in a positive working relationship through innovative leadership and career development programs".*
- *Students enrolled in a business class are eligible for membership*

### Course sequence for the Accounting and Related Services program:

#### DIGITAL AND FINANCIAL LITERACY

Digital Literacy: *Keyboarding*—The first focus will be a keyboarding review. *Software Applications*—Basic software applications such as word processing, spreadsheets, and presentations will be introduced and applied. *Document Formatting*—The correct formatting of basic documents such as correspondence, reports, and tables will be practiced. *Cyber Literacy*—Protecting Your Computer, Internet Safety, Cyberbullies, Social Media, Protecting Your Identity, Researching and the Web, Netiquette and Cyber Ethics, and Your Digital Footprint are topics that will be presented and applied.

Financial Literacy: *Personal Finance*—Introduction to concepts and practices to successfully manage personal finances is the focus. Some of these units include: Take Charge of Your Financial Well-Being, Managing Your Money, Earning, Saving, Use of Credit Cards and Spending. *World of Work*—Exploring careers, learning about classes and schools that lead toward career goals, and applying employability skills will be an on-going focus of this class.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* None

### **ACCOUNTING (WEIGHTED)**

The prime objective of this course is to introduce the double-entry system of accounting for sole proprietorship, corporate, and partnership forms of business enterprises by using real-world applications and connections. Banking and payroll procedures are practiced. Other important objectives include developing personal and professional skills for school and work and to find success in accounting.

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>

*Prerequisites:* Digital & Financial Literacy, Algebra I

### **ADVANCED ACCOUNTING (WEIGHTED)**

The units of study in this course include accounting for special procedures involving assets, liabilities, and equity. Spreadsheet software is used to create accounting reports. Several accounting simulations are given for reinforcement of concepts and to give a “real life” experience. An emphasis will be placed on recognizing career opportunities, developing good decision making skills, applying business ethics, and exhibiting effective work habits while performing tasks relating to accounting. Students will take the state mandated “Accounting and Related Services” state assessment at the end of the semester.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* Accounting (with a grade of 80% or better)

### **ACCOUNTING III (WEIGHTED)**

The course is designed for those students who wish to further their accounting skills and knowledge. Using accounting information for financial decision-making is the basis of this course. Accounting for other forms of business organization and special accounting systems is emphasized. The accounting software, *QuickBooks*, is used extensively.

*Grade Level:* 12<sup>th</sup>

*Prerequisites:* Advanced Accounting (with a grade of 80% or better)

### **Course Sequence for the Business Operations Support and Assistant Services program:**

#### **DIGITAL AND FINANCIAL LITERACY**

Digital Literacy: *Keyboarding*—The first focus will be a keyboarding review. *Software Applications*—Basic software applications such as word processing, spreadsheets, and presentations will be introduced and applied. *Document Formatting*—The correct formatting of basic documents such as correspondence, reports, and tables will be practiced. *Cyber Literacy*—Protecting Your Computer, Internet Safety, Cyberbullies, Social Media, Protecting Your Identity, Researching and the Web, Netiquette and Cyber Ethics, and Your Digital Footprint are topics that will be presented and applied.

Financial Literacy: *Personal Finance*—Introduction to concepts and practices to successfully manage personal finances is the focus. Some of these units include: Take Charge of Your Financial Well-Being, Managing Your Money, Earning, Saving, Use of Credit Cards and Spending. *World of Work*—Exploring careers, learning about classes and schools that lead toward career goals, and applying employability skills will be an on-going focus of this class.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* None

#### **BUSINESS TECHNOLOGY**

Business Technology is for students who have an interest in learning how to utilize technology to perform and coordinate tasks. Skill level with word processing and spreadsheet will increase. Basic business document formatting will be reinforced. Units in business operations such as document management, e-mail functions and Internet/Intranet will be offered.

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>

*Prerequisites:* Digital & Financial Literacy

#### **BUSINESS OPERATIONS I**

Business Operation I builds on previously learned skills. Skill level with database and spreadsheet software will increase. Applying time management principles and demonstrating knowledge of the need for ethical behavior in the workplace are an important part of this course. Students will take the state mandated “Business Operations and Assistant Services” state assessment at the end of the semester.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* Business Technology

#### **BUSINESS OPERATIONS II**

Business Operations II is the culminating course in the Business Operations Support and Assistant Services program. The primary focus of this course is effective office management using the skills learned in the previous courses. Units in meeting management, preparing travel arrangements, maintaining supplies and equipment, staffing and supervising, and telephone use will be offered. Basic banking and payroll procedures will be learned. Several simulations will be completed using technology learned.

*Grade Level:* 12<sup>th</sup>

*Prerequisites:* Business in Action I (Exception: a 12th grader may take both Business Operations I and II concurrently)

#### **CABINETMAKING**

##### **INTRODUCTION TO CABINETMAKING**

Intro to cabinetmaking acquaints the student with the essential principals of cabinetmaking. Topics include wood technology use of hand tools, portable power tools, and cabinetmaking machinery. Emphasis is place on safety, and shop policies & procedures. Students are required to complete several projects designed to develop

beginning cabinetmaking skills. Instruction is provided in the following areas:

- Wood products
- Structural design
- Working drawings
- Materials list
- Measurement & dimensions
- Machine methods & processes
- Application of safe & proper procedures

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>

*Prerequisites:* None

### **CABINETMAKING**

The introductory cabinetmaking course acquaints the student with the essential principles of cabinetmaking. Topics include wood technology, use of hand tools, portable power tools and basic machinery. Emphasis is placed on proper technique, safety and shop policies for the cabinetmaking facility.

Students are required to complete a core project designed to develop primary cabinetmaking skills before moving on to develop and build their own design. Instruction is provided in the following areas:

- Wood products
- Structural design
- Working drawings
- Materials list
- Machine methods and processes
- Selection safe use and care of hand and power tools
- Applications and proper woodworking procedures

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>

*Prerequisites:* Introduction to Cabinetmaking

### **ADVANCED CABINETMAKING**

Advanced cabinetmaking increases student skills in the use of power tools & cabinetmaking machinery. Student will learn advanced techniques & processes that pertain to custom cabinetmaking design & construction, panel construction, & freestanding furniture. Instruction is provided for the following areas:

- Cabinet design
- Cutting
- Shaping
- Forming
- Wood finishing
- Lathe operation

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>

*Prerequisites:* Cabinetmaking

### **FRAMING AND CONSTRUCTION**

Topics include wood technology, use of hand tools, portable power tools and basic machinery. Emphasis is placed on proper technique, safety and shop policies for the framing facility. Instruction is provided in the following areas:

- Wood products
- Structural design
- Working drawings
- Materials list
- Machine methods and processes
- Selection safe use and care of hand and power tools

- Applications and proper woodworking procedures
- Framing concepts

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>

*Prerequisites:* Introduction to Cabinetmaking

## **GRAPHIC DESIGN**

### **GRAPHIC DESIGN 1 – PHOTOGRAPHY AND PHOTOSHOP.**

This class will provide an introduction to the Graphic Design industry while teaching students the basics of photography and Photoshop. We will be going over design principles and ethics and look at the graphic design industry and best job practices. By the end of the year students should be able to take more beautiful photographs and learn how to control their results. They will also be able to add special effects and professional editing techniques to put them a cut above the competition. At the end of the year students will have the opportunity to take an Adobe Certified Associate exam that will certify they are prepared for entry-level work on Adobe Photoshop?

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>

*Prerequisites:* None

### **GRAPHIC DESIGN 2 – ILLUSTRATOR**

This class will focus on building vector graphics through Adobe Illustrator. Students will start building their portfolio through the creation of several projects that reflect real-life design situations. This class will give students an idea of what it is like to be a graphic designer. At the end of the year students will have the opportunity to take an Adobe Certified Associate exam that will certify they are prepared for entry-level work on Adobe Illustrator?

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>

*Prerequisites:* Graphic Design 1

### **GRAPHIC DESIGN 3 – IN-DESIGN**

This class will focus on compiling past and present projects into a portfolio the student can use to highlight their abilities when applying for a job or a design school. This class will take on clients and projects from the community in preparing students for professional work.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* Graphic Design 2

## **WELDING TECHNOLOGY**

### **WELDING CORE**

The welding core curriculum is designed to expose students to metalworking. Instruction includes career planning, preparing for employment, work-based

learning, oral and written communication skills, understanding the role of small businesses and financial management, workplace leadership styles and leadership development. The program is designed and delivered as a coherent sequence of experiences using technical instruction, experiential learning, supervised occupational experience, leadership and personal development through the career and technical student organization, Skills/USA.

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>

*Prerequisites:* None

### **WELDING I**

Welding I prepares individuals to apply basic technical knowledge and skills to join or cut metal surfaces. Instruction will provide the students with the basics of safety, welding, material identification and entry-level fabrication techniques. The following procedures will be introduced within the areas specified below:

- Oxygen / Acetylene Welding
- Arc Welding
- Oxygen / Acetylene Cutting
- Tools for Fabrication

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>

*Prerequisites:* Welding Core

### **ADVANCED WELDING**

This course prepares individuals to apply advanced technical knowledge and skills using a variety of welding techniques and equipment. Instruction includes Welding and Cutting Theory, Inspection and Testing, Electrical Fundamentals, Drawing and Welding Symbols, Fabrication Principles and Practices and Safety. Students will advance their knowledge and talents in all areas taught and are expected in the metalworking industries. Students will incorporate abilities learned in previous classes to design and build projects using multiple disciplines.

- Oxygen / Acetylene Welding
- Arc Welding
- Oxygen / Acetylene Cutting
- Tools for Fabrication
- Plasma Arc Cutting
- Forging
- Gas Metal Arc Welding

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* Welding I

## **FOREIGN LANGUAGE**

### **SPANISH I**

Students learn by speaking, reading, writing and listening to Spanish. Oral proficiency and use of the target language is encouraged at all levels. A variety of methods are used including Total physical Response Storytelling, textbooks and authentic and cultures, geography and history.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> 12<sup>th</sup>

*Prerequisites:* None

### **SPANISH II**

Spanish II builds upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary.. Students will learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students will also explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> 12<sup>th</sup>

*Prerequisites:* Spanish I or passing score on test equivalent

## **LANGUAGE ARTS**

### **ENGLISH I**

Freshman English is a survey course that integrates reading, writing, listening and speaking. Subjects of focus in this course include basic composition, speech, vocabulary development, and the study of literature. Literature of the course includes poetry, short stories, novels, plays, and nonfiction choices. Texts are selected to build on students' previous backgrounds as well as to introduce students' literature interpretation and to improve reading skills. Writing focus on development skills and writing process utilizing personal experience as well as literary texts. This class is a prerequisite for all other English course offerings unless otherwise noted.

*Grade Level:* 9<sup>th</sup>

*Prerequisites:* None

### **ENGLISH II**

Sophomore English offers students a wealth of experiences that focus on units in composition rhetoric, world literature, and creative writing. Skills and practice in each unit will prepare students for the AIMS test in reading and writing. Topics covered will include fundamentals of oral communication and debate, practice in writing and evaluating using the six traits of writing ( idea development, sentence fluency, voice, word choice, organization and conventions). Practice in the writing process and different aims of discourse (persuasive, expository, literary, and expressive), studying challenging literature from around the world and across history.

*Grade Level:* 10<sup>th</sup>

*Prerequisites:* English I

### **ENGLISH III**

English 11 is a course that familiarizes students with major writers and trends in writing. Thinking and writing skills will be developed in response to the varied reading which will include poetry, non- fiction, short stories, plays, and novels.

*Grade Level:* 11<sup>th</sup>

*Prerequisites:* English II

### **ENGLISH IV**

English Literature and Composition is a rigorous course designed to give students a learning experience equivalent to an introductory college literature course. Students will study an array of literature including drama, prose and poetry. Two important skills will be emphasized in this class- critical reading and analytical writing. The requirements, literary selections, writing assignments and classroom activities are all designed to prepare students for college.

*Grade Level:* 12<sup>th</sup>  
*Prerequisites:* English II

### **HONORS ENGLISH (WEIGHTED)**

Honors English 10 will follow the structure of the English 10 class but will also offer an emphasis in rhetorical analysis of writing and literature.

*Grade Level:* 10<sup>th</sup>  
*Prerequisites:* English I, teacher recommendation

### **ENG 101 WRITTEN COMMUNICATION (EAC COURSE) (WEIGHTED)**

ENG 101 is a 1 semester .5 credit course that emphasizes clear and effective writing and critical reading. Students generate a minimum of 7,000 words including revisions throughout the semester.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* Student must take and pass a placement test prior to enrollment

### **ENG 102 WRITTEN COMMUNICATION (EAC COURSE) (WEIGHTED)**

ENG 102 is a 1 semester .5 credit course that continues development of skills and concepts taught in ENG 101. Emphasizes research and critical reading and writing. Students generate a minimum of 7,000 words including revisions throughout the semester.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* ENG 101

### **ENG 241 AMERICAN LITERATURE I (EAC COURSE) (WEIGHTED)**

ENG 241 is a 1 semester .5 credit course that selects readings from Native beginnings to the Civil War. Students generate a minimum of 2,500 words including revisions throughout the semester.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* English 101 with a grade of C or higher

### **ENG 242 AMERICAN LITERATURE II (EAC COURSE) (WEIGHTED)**

ENG 242 is a 1 semester .5 credit course that selects readings from the Civil War to the present. Students generate a minimum of 2,500 words including revisions throughout the semester.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* English 241

## **MATHEMATICS**

### **ALGEBRA I**

Algebra I is a course in first year algebra. Topics such as statistics, probability, and geometry are used as setting s for work with linear expressions, sentences, algebraic fractions, functions, and set ideas. The topics are developed through a variety of applications using numeric algebraic representations.

*Grade Level:* 9<sup>th</sup> (Some will take as 8<sup>th</sup> Graders)  
*Prerequisites:* None

### **GEOMETRY**

Geometry is the study of patterns with emphasis on drawing, visualizing and following algorithms; understanding properties, mathematical relationships, and using applications in real- world situations. The course integrates algebra and geometry by using coordinates and transformations.

*Grade Level:* 10<sup>th</sup> (9<sup>th</sup>)  
*Prerequisites:* Algebra I

### **ALGEBRA II**

Algebra II is a course in second year algebra. Students study a variety of topics; exponents, roots, linear functions, systems, of equations, quadratic equations, variations, complex numbers, logarithms, and trigonometry. Algebra II includes problems involving real- world situations. All topics are developed numerically, algebraically, and geometrically.

*Grade Level:* 11<sup>th</sup> (10<sup>th</sup>)  
*Prerequisites:* Geometry

### **CONTEMPORARY MATHEMATICS**

Contemporary Mathematics helps students see math at work in the world by presenting problem solving in purposeful and meaningful contexts. Many of the problems in the text demonstrate how math relates to subjects--such as sociology, psychology, business, and technology--that generally interest students.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* Algebra I and Geometry

### **MAT 120 INTERMEDIATE ALGEBRA (EAC COURSE) (WEIGHTED)**

MAT 120 is a 1 semester .5 credit course. It is a continuation of Elementary Algebra. Topics include functions, systems of equations, inequalities, quadratics, radicals, and conic sections.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* Student must take and pass a placement test prior to enrollment

### **MAT 154 COLLEGE ALGEBRA (EAC COURSE) (WEIGHTED)**

MAT 154 is a 1 semester .5 credit course. It is the first course to prepare students for calculus. Topics include functions, graphs, solving equations, zeros of polynomials, exponentials and logarithms, and systems of equations.

Additional topics may include conic sections, partial fraction decomposition, matrices, sequence, and series.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* *Prerequisites:* Student must take and pass a placement test prior to enrollment or have passed MAT 120 with a C or better.

### **MAT 181 PLANE TRIGONOMETRY (EAC COURSE) (WEIGHTED)**

MAT 181 is a 1 semester .5 credit course. Trigonometric functions, identities and equations; development and application of the various formulae for solving triangles, vectors, and complex numbers.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* *Prerequisites:* Student must take and pass a placement test prior to enrollment or have passed MAT 154 with a C or better.

## **PHYSICAL EDUCATION**

### **WEIGHTS**

This is an activity-based class based on the BFS (Bigger/Better, Faster, Stronger) program. It is an overall program consisting of strength, agility, flexibility, conditioning, and plyometrics. We focus on the strength and agility portion of the program during class time. The strength portion focuses on core lifts (bench, squat, power clean, dead lift, towel bench and box squat). Auxiliary lifts enhance the core lifts and students who consistently do both types of lifts receive the best results. The sets and reps change weekly to eliminate plateaus. The agility part of the program is a dot drill done daily and is also used as a warm up.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* *None, however priority will be given to upper classmen*

## **SCIENCE**

### **ANATOMY AND PHYSIOLOGY**

This course will focus on the structure and function of the human body. Topics include an in-depth exploration of the organ systems and mechanisms for maintaining homeostasis. Careers in the medical and healthcare fields are also investigated.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* Biology, Geometry

### **BIOLOGY**

Biology is a course emphasizing hands-on experiments with living and preserved specimens (dissection). Topics studied include cellular biology, genetics, forensics through DNA, technology, living organisms and their complete life cycles, evolution as a theory, the scientific method and many versions of scientific labs with an

emphasis on generating real data and the interpretation of that data.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup>

*Prerequisites:* None

### **CHEMISTRY**

Chemistry is a laboratory course dealing with the information concepts and principles of chemistry. Topics include atoms and molecules, elements and compounds, chemical reactions, solutions, atomic structure, chemical bonding, quantum theory, periodic table, and acids and bases. The course is designed to give the student a functional background and develop an awareness of opportunities for further growth in the sciences and related fields. This class has a strong emphasis on laboratories and the chemical processes for mining. It is strongly recommended that any student considering taking chemistry have a strong math background, having passed algebra 1 with a grade of B or higher.

*Grade Level:* 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>

*Prerequisites:* Algebra I

### **EARTH SCIENCE**

This course will teach the students about the four branches of Earth Science. These include Geology, Meteorology, Astronomy, and Oceanography. This will be done in a traditional environment, using a textbook, lecture, notes and project methodology. Fun and creative projects will be included, however, the vast majority of the class will be taught from a more traditional method, which is heavy on book work, notes and lecture.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>

*Prerequisites:* None

### **PHYSICAL SCIENCE**

The high school Physical Science curriculum continues students' investigations of the physical sciences that began in Grades K-8. The course is designed as an introduction to the major concepts in chemistry and physics. The course includes concepts such as: structure of atoms, periodic table principles, motion, forces, conservation of matter and energy, gravity, machines, electricity and the behavior of waves. These concepts are investigated through laboratory experiences designed to promote and develop appropriate skills in science inquiry.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* None

### **BIO 181 GENERAL BIOLOGY I (EAC COURSE) (WEIGHTED)**

BIO 181 is a 1 semester .5 credit course. Principles of structure and function of living things at molecular, cellular, and organismic levels of organization. One year of high school chemistry or one semester of college level chemistry recommended.

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>

*Prerequisites:* Student must take and pass a placement test prior to enrollment

## **BIO 182 GENERAL BIOLOGY II (EAC COURSE) (WEIGHTED)**

BIO 182 is a 1 semester .5 credit course. Additional principles of structure and function of living things at molecular, cellular, and organismic and higher levels of organization

*Grade Level:* 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* BIO 181

## **SOCIAL STUDIES**

### **WORLD HISTORY/GEOGRAPHY**

This Course will teach the students about the ancient peoples of the world and their direct impact upon the modern world. The form of delivery is traditional with heavy emphasis on bookwork, lecture, notes, essay's and research papers. There will be fun projects included that drive students into a higher level of thinking.

*Grade Level:* 10<sup>th</sup>  
*Prerequisites:* None

### **AMERICAN HISTORY**

US History subject is offered in the junior year and is a requirement for graduation. The first semester traces the development of the United States through the 1900. The second semester continues to the present. Emphasis is placed on political, military, social and economic development with an emphasis on their influences, both and international.

*Grade Level:* 11<sup>th</sup>  
*Prerequisites:* World History

### **US GOVERNMENT/ECONOMICS**

American Government and Economics are each a one-semester course and are required for graduation. They are offered in the senior year to better prepare the senior student for the responsibilities of the adult world. American Government investigates state and federal government, the role of each government in today's society and the social problems that concern each government. The economics semester is designed to give the student a better understanding of the American economic system. It also provides students with a realistic background for solving and understanding problems that confront the individual.

*Grade Level:* 12<sup>th</sup>  
*Prerequisites:* World History and American History

## **ADDITIONAL ELECTIVES/SUPPORT CLASSES**

### **LEADERSHIP**

A class designed to teach basic leadership principles & give students an opportunity to practice those principles on a regular basis. This course also serves as a set meeting time for Student Council participants to plan &

carry out activities for the benefit of the PHS student body.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* Elected into a leadership position

### **MATH INTERVENTION**

The course is structured for students who need additional assistance learning the concepts taught in their current math course.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* None, may be recommended by a teacher, counselor, or principal.

### **READING/WRITING INTERVENTION**

The course is structured for students who need additional assistance learning the concepts taught in their current math course.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* None, may be recommended by a teacher, counselor, or principal.

### **YEARBOOK**

This class will learn the basics of InDesign through designing the Pima High School Yearbook. Students will be responsible for photography, layout and content in telling the story of Pima High School 2015. Students will develop design skills, organization, leadership and time management as they work together to complete the yearbook on time.

*Grade Level:* 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>  
*Prerequisites:* None

## **Weighted Courses**

Each course that is labeled as weighted will receive an increase of 10% of the final semester grade.

Example:

Student A

Weighted Class semester Grade	89.3%
Student will receive an additional	8.93%
New weighted semester grade	98.23%