

Mission Heights Preparatory High School Course Descriptions 2017-2018

Mission Heights Preparatory High School Graduation Requirements

Minimum Credits Required: 24 Credits

Course Requirements:

Mission Heights Preparatory High School operates on a 3 class by 4 quarter schedule system that provides students with an opportunity to take a 4th class each quarter. Students must be registered in a minimum of three courses during each quarter per school year. Students who are enrolled in CAVIT must take a Zero hour class as well. Students must complete and receive a passing grade in 24 credits of coursework for graduation. The curriculum is demanding, and many courses are required core area credits (17 credits). Students must also complete numerous electives during their course of study (7 credits).

Required Course of Study:

- 4.0 Credits of English Language Arts
- 4.0 Credits of Mathematics
- 3.0 Credits of Lab Science
- 3.0 Credits of Social Studies
- 1.0 Credits of Fine Arts
- 2.0 Credits of Foreign Language
- 1.0 Credits of College Preparation Electives : College Prep and Public Speaking
- 6.0 Credits of Electives

Honors Courses

Admission to college is becoming more competitive every day. It is imperative that students have an academic record that will make them stand out. Taking honors courses will help give students that competitive edge.

Honors courses at Mission Heights Preparatory High School have been developed to help meet the needs of highly motivated students. Honors courses offer the same curriculum as regular courses, but do so in a more comprehensive format. Honors courses cover topics at a higher level and require students to engage in the content at a deeper level. Students will develop their critical thinking skills and learn how to

apply, evaluate, and synthesize concepts. The honors program at Mission Heights Preparatory High School is a combination of Honors Level, Advanced Placement and Concurrent Enrollment courses. There is no honors option for foundations courses.

Honors Placement

Placement in Honors courses is decided by the student at the beginning of the course. Students will sign a contract with the teacher at the beginning of the course signifying their commitment to the honors requirements.

Benefits of Honors Courses

- Students gain an edge in the college admission process. College admissions officers look for students who take rigorous courses as designated by the “Honors” label.
- Students who take AP courses are able to receive college credit depending on how well he/she scores on a comprehensive examination of the subject. Most colleges will give credit for scores of 3 or higher on AP exams (AP score range is from 1-5).
- Students who take and pass concurrent enrollment courses at Central Arizona College will not only earn high school credit, where applicable, but also college credit, and in most cases, Honors credit.
- Honors courses are more difficult than non-honors classes, so the grades in honors courses are given an extra grade point. With the standard four-point grading scale; A = 4 grade points, B = 3 points, C = 2 points, etc. With the honors scale; A = 5 grade points, B = 4 points, and C = 3 points; therefore, when these grade points are averaged with regular grades, a student’s overall GPA can raise higher than 4.0
- College courses are more rigorous than standard high school courses. By taking challenging honors classes in high school, students will be better prepared to succeed in college.

Taking honors courses in high school will prepare students for the rigors of college. All students who feel up to the challenge of honors classes should talk to the school administration for more information about the competitive courses at Mission Heights Preparatory High School.

List of Subjects and Courses

Fine Arts & Humanities

Character Design
Art Studio
Photoshop
Game Design
Competitive Gaming
Introduction to Drama
Acting/Advanced Drama
Stage Production
Student Leadership
Survey of the American Musical Theatre

Foreign Language

Spanish 1
Spanish 2
Spanish 3
Spanish 4
Spanish 5
Spanish 6
Spanish Immersion 1
Spanish Immersion 2

English/Language Arts

AZMerit English Preparation
ELA Foundations
English 9.1
English 9.2
English 10.1
English 10.2
English 11.1
English 11.2
World Literature 1 & 2:
 English 12.1 & English 12.2
Research Writing
Shakespeare
Creative Writing
Mythology
AP English Composition 1 & 2
AP English Literature 1 & 2
AP English Test Prep

Mathematics

Algebra Foundations
Algebra 1.1
Algebra 1.2
Math Lab
Geometry 1
Geometry 2
Algebra 2.1
Statistics
Algebra 2.2
Financial Algebra
Trigonometry
Pre-Calculus
AP Calculus A & B
AP Calculus Test Prep

Science

Biology 1
Biology 2
Chemistry 1
Chemistry 2
Human Anatomy
Human Physiology
Agricultural Science 1
Agricultural Science 2
Physics 1
Physics 2

Social Studies

World History 1
World History 2
US/Arizona History 1 & 2
US Government
Economics
AP World History 1 & 2
AP US History 1 & 2
AP US Government
AP History Test Prep
Intro to Politics
Advanced Politics

Physical Education

Fitness
Nutrition/Health
Plyometrics
Sports Theory
Weight Training
Team Sport
Soccer Fundamentals

AVID

Phantom 101
AVID 2

College Preparation Seminar Courses

Public Speaking
Personal Finance
Logic
College Preparations

Electives

Video Production
Yearbook
Technology Applications
Film History
Creative Magazine
Literature & Film
World Cultures
Outdoor Skills

Central Arizona College Classes

THE-115 Introduction to Cinema
ENG-101
ENG-102

Fine Arts & Humanities

Students must complete 1 academic credit (2 classes) in order to meet the MHPHS graduation requirement.

Character Design

0.50 Credit Prerequisites: Digital Painting

In character design, students learn to build compelling and original characters based on elements such as silhouette, balance, body language, and expression. Each week, students will be given a new character concept to work on and participate in a group critique/competition at the end of the week. Each day, students will have warm ups and short lectures better preparing them to work on the week's project. Students will also receive training in digital painting, using adobe photoshop CS6, and will work using Wacom drawing tablets.

Art Studio

0.50 Credit Prerequisites: None

This is a rare class offered to student who want to push their art the extra mile. Most of the class time is devoted to allowing students to build their portfolios and receive personalized feedback. This class is typically very small and personalized.

Photoshop

0.50 Credit Prerequisites: none

Students will receive basic and some advanced training in Photoshop, using the current version: CS6. Students learn to manipulate and touch up photos, create graphic designs, and build visually compelling info graphics and layouts.

Game Design

0.50 Credit Prerequisites: Photoshop

The Game Design class gives students an introduction to the game industry and the theory of design. Students learn game design principles and put them into practice by designing some simple games such as pen and paper RPGs, card games, and board games. Additionally, students will also gain experience using game engines, specifically Unity. Game design includes some photoshop instruction, writing for analysis and reviews, and participating in longer term group projects.

Introduction to Drama

0.50 High School Credit Prerequisites: None

Introduction to Drama Class introduces students to theater arts via the Lee Strasberg method. Weekly evaluations of class handouts will take place. Topics of evaluation include: focus, teamwork, concentration, self-discipline, scene preparation for acting, and scene acting performance. Students are tested weekly by Socratic testing. Students will be expected to turn in daily or weekly evaluations on PowerPoints, textbook/handout material, and /or performance evaluations. All students will perform at least one acting scene.

Acting/Advanced Drama

0.50 High School Credit Prerequisites: Introduction to Drama Class (No exceptions)

This class allow students to prepare and act a variety of scenes using the Lee Strasberg method. Students are evaluated by peers and the instructor utilizing techniques learned in Introduction to drama class. Students may be expected to perform an after school theatrical production.

Stage Production Class

0.50 High School Credit Prerequisites: Introduction to Drama Class (No exceptions)

Students taking this class will produce a play for after school performance. The class will design and build scenery in addition to acting in the play/musical. Weekly on evaluations will take place based upon the crew/acting role assigned by the instructor.

Student Leadership and Mentoring

0.50 High School Credit Prerequisites: Must be in 10th grade or higher and recommended by administration. An interview with the instructor is also required prior to being accepted into the class. Student Leadership and Mentoring Class students will be the leaders and mentors of Mission Heights Preparatory High School. These students will be assigned to mentor and personally success coach several incoming freshman students. Student Leadership and Mentoring Class students will be the outstanding examples of drive for excellence in scholarship, school pride and motivation. Students will be trained in skills to overcome all fears in all social and performance areas. Students will be required to complete assignments in singing a song, dancing a dance and giving a speech in front of classmates. Students will be taught how to interview for achieving their goals in any life situation. Students will be taught how to turn fear into power in all settings of life. The central core concept of this class is to begin the evolution process of turning Mission Heights Preparatory High School into the single highest achieving and most prestigious learning institution in the nation. Students enrolled in this class will be receiving training unlike any instruction offered high school students anywhere in the country.

Survey of the American Musical Theatre

0.50 High School Credit Prerequisites: None

In this course we will be discussing the history of the American musical theatre starting at the beginning of the 20th Century to the current day. Topics will include *Showboat* as the first proper musical, Rodgers & Hammerstein and the formation of the book musical, the introduction of non-linear storytelling with *Company*, the rise of the mega-musical in the 80s, jukebox and Disney musicals of the 90s. The themes and topics of shows will be discussed and how it relates to American culture and the zeitgeist of the time the show was produced.

Foreign Language

Students must complete 2 academic credits (4 classes) of the same foreign language in order to meet the MPHS graduation requirement.

Spanish 1

0.50 Credit Prerequisites: None

Spanish 1 is a foreign language class that focuses on the basic building blocks of a language (vocabulary), the rules of a language (grammar), and introduces different cultures and customs among Spanish-speaking countries. Spanish 1 introduces basic vocabulary like: after school activities, describing yourself and others, daily schedules, school subjects, foods, and members of the family. The course explains general grammar rules like: subject pronouns, possessive adjectives, and different present tense verbs. Students do listening exercises and write short sentences. The course provides a wide array of Spanish animations, games, videos and listening activities to enable students to communicate and learn another language and culture.

Spanish 2

0.50 Credit Prerequisites: Spanish 1

Spanish 2 is a foreign language class that focuses on basic to intermediate vocabulary, grammar, and explains different cultures and customs among Spanish-speaking countries. Spanish 2 introduces new vocabulary like: house items and rooms, food, sports, body parts, and places in the city. The course introduces grammar rules like: irregular verbs, past tense verbs, affirmative/negative words, and direct object pronouns. Students do listening exercises and write short sentences. The course provides a wide array of Spanish animations, games, videos and listening activities to enable students to communicate and learn another language and culture.

Spanish 3

0.50 Credit Prerequisites: Spanish 2

Spanish 3 is a foreign language class that focuses on intermediate vocabulary, grammar, and explains different culture and customs among Spanish-speaking countries. Spanish 3 explains important vocabulary in relation to: trips, vacations, health, daily routines, and shopping. The course practices grammar rules like: direct/indirect object pronouns, irregular past tense verbs, demonstrative adjectives and pronouns, present progressive verbs and reflexive verbs. The course provides a wide array of Spanish animations, games, videos and listening activities to enable students to communicate and learn another language and culture.

Spanish 4

0.50 Credit Prerequisites: Spanish 3

Spanish 4 is a foreign language class that focuses on intermediate-advanced vocabulary, grammar, and explains different culture and customs among Spanish-Speaking countries. Spanish 4 explains important vocabulary in relation to: telling stories, preparing and describing foods, ordering meals, making movies, school newspaper terms, and family. The course practices grammar rules like: affirmative and negative commands, affirmative and negative words, double object pronouns, present subjunctive tense, comparatives, superlatives and imperfect verb tenses. The course provides a wide array of Spanish animations, games, videos and listening activities to enable students to communicate and learn another language and culture

Spanish 5

0.50 Credit Prerequisites: Spanish 4

Spanish 5 is a foreign language class that focuses on advanced vocabulary, grammar, and discusses different culture and customs among Spanish-Speaking countries. Spanish 5 explains important vocabulary in relation to: Nature, family relationships, volunteer activities and projects, environmental concerns and presenting and supporting opinions. The course practices grammar rules like: preterite vs imperfect, affirmative and negative commands, present subjunctive tense, por vs para, and future tense. The course provides a wide array of Spanish animations, games, videos and listening activities to enable students to communicate and learn another language and culture.

Spanish 6

0.50 Credit Prerequisites: Spanish 5

Spanish 6 is a foreign language class that focuses on advanced vocabulary, grammar, and explains different culture and customs among Spanish-Speaking countries. Spanish 6 explains important vocabulary in relation to: professions, positive and negative emotions, travel, leisure activities, neighborhood living, future planning and pursuing a career. newspaper terms, family, the environment, and careers. The course practices grammar rules like: present subjunctive tense, conditional tense, reported speech, all perfect tenses and si clauses. The course provides a wide array of Spanish animations, games, videos and listening activities to enable students to communicate and learn another language and culture.

Spanish Immersion 1

1.0 Credit Prerequisites: None

Spanish Immersion 1 is a fast pace foreign language class that focuses on the basic building blocks of a language (vocabulary), the rules of a language (grammar), and introduces different cultures and customs among Spanish-speaking countries. Spanish Immersion 1 introduces vocabulary like: after school activities, describing yourself and others, daily schedules, school subjects, foods, members of the family, house items and rooms, food, sports, body parts, and places in the city. The course explains grammar rules like: subject pronouns, possessive adjectives, present tense irregular and regular verbs, past tense verbs, affirmative/negative words, and direct object pronouns. Students do listening exercises and write sentences. The course provides a wide array of Spanish animations, games, videos and listening activities to enable students to communicate and learn another language and culture.

Spanish Immersion 2

1.0 Credit Prerequisites: Spanish Immersion 1 or Spanish 2

Spanish Immersion 2 is a fast pace foreign language class that focuses on intermediate vocabulary, grammar, and explains different culture and customs among Spanish-speaking countries. Spanish Immersion 2 explains important vocabulary in relation to: trips, vacations, health, daily routines, shopping, telling stories, preparing and describing foods, ordering meals, making movies, school newspaper terms, and family. The course practices grammar rules like: direct/indirect object pronouns, irregular past tense verbs, demonstrative adjectives and pronouns, present progressive verbs, reflexive verbs, affirmative and negative commands, double object pronouns, present subjunctive tense, comparatives, superlatives and imperfect verb tenses. The course provides a wide array of Spanish animations, games, videos and listening activities to enable students to communicate and learn another language and culture.

English/Language Arts

A student must complete 4 academic credits (8 classes) of English/Language Arts in order to meet the MHPHS graduation requirement.

AZMerit English Preparation

0.50 Credit Prerequisites: None

This course covers fundamental English concepts and is designed to provide students an opportunity to increase their English skills prior to taking the AZMerit Test. Course topics include fiction and nonfiction text, identifying the elements of literature, in-text documentation and introductory writing skills that will help students be successful on the AZMerit Test.. **This course does not meet the English requirement for graduation and is considered an elective credit.**

ELA Foundations

0.50 Credit Prerequisites: None

This course covers fundamental English concepts and is designed to provide students an opportunity to increase their English skills prior to entering an MHP English course. Course topics include fiction and non-fiction text, identifying the elements of literature, and introductory writing skills that will help students be more successful with the rigor of future MHP English classes. **This course does not meet the English requirement for graduation and is considered an elective credit.**

English 9.1

0.50 Credit Prerequisites: Placement Test Eligibility

Freshman English 1 focuses on the development of reading skills, writing skills, and speech and language concepts. By the end of this course, students will be able to comprehend fiction and nonfiction text, identify the elements of literature and write a narrative essay, persuasive essay, and mini research paper using MLA guidelines. *This class can also be taken as a honors class. These students will do an advanced study of skills and literature done in the original class.

English 9.2

0.50 Credit Prerequisites: Placement Test Eligibility

Freshman English 2 concentrates on reading comprehension, and applying the writing process utilizing the Six Traits of Writing. Students will comprehend figurative language and analyze the elements of literature through reading fiction and nonfiction prose and poetry. Students will also learn to write a literary response essay, full research paper, and various forms of poetry. *This class can also be taken as a honors class. These students will do an advanced study of skills and literature done in the original class.

English 10.1

0.50 Credit Prerequisites: English 9.2

Sophomore English, students will explore and analyze works of drama, poetry, short stories, and novels as well as other written and visual media in order to leverage its content and style into improving the student's writing style. Two novels and several essays are involved on various topics of current interest. Emphasis will be placed on intensive review of usage and mechanics, word development and oral presentation skills. The skills taught within this course will provide students with the skills necessary to be successful on standardized tests and build their reading and writing ability for more advanced coursework. *This class can also be taken as a honors class. These students will do an advanced study of skills and literature done in the original class.

English 10.2

0.50 Credit Prerequisites: English 9.2

Students focus on writing, where story writing, creativity and persuasiveness combine into interesting forms of advertising, books, electronic stories and other literary forms as created by students themselves. By focusing on writing, students are challenged to be creative, critical, and complex. Students will also develop thoughts and ideas into quality verbal and written forms. Emphasis will be placed on intensive review of usage and mechanics, word development and oral presentation skills. *This class can also be taken as a honors class. These students will do an advanced study of skills and literature done in the original class.

English 11.1

0.50 Credit Prerequisites: English 10.2

This course provides a chronological study of American Literature. The course selections will cover historical information, fiction, nonfiction, poetry, plays, and other writings of specified periods. The course will also include vocabulary, grammar, projects, essays, creative writing assignments, two novels studies, a drama study and quizzes.

English 11.2

0.50 Credit Prerequisites: English 10.2

This course is a continuation of English 11.1. It provides the second part of the chronological study of American Literature. The course selections will cover historical information, fiction, nonfiction, poetry, plays, and other writings of specified periods. The course will also include vocabulary, grammar, projects, essays, creative writing assignments, three novels studies, a research paper and presentation, and quizzes. *This class can also be taken as a Pre-AP class. These students will do an advanced study of skills and literature done in the original class.

World Literature 1 & 2: English 12.1 and 12.2

0.50 Credit each Prerequisites: English 11.2

These courses provide a study of World Literature from Greece, English, France, Africa, Germany, America, etc... The course selections will cover historical information, fiction, nonfiction, poetry, and other writings of specified periods. The course will also include vocabulary, grammar, projects, essays, and creative writing assignments.

Research Writing

0.50 Credit Prerequisites: English 11.2

This course provides skills and practices to write effective research papers, focusing on finding and evaluating a variety of sources; essay organization with thesis statements, sentence and paragraph cohesion, and understanding/avoiding logical fallacies; identifying assumptions, ambiguity, ethos, logos, and pathos; proper formatting including citations in-text and reference pages.

Shakespeare

0.50 Credit Prerequisites: English 11.2

This course provides a chronological study of Shakespeare and his works. The course will include a sampling of select poems, comedies, tragedies, and histories by the great Bard himself. The course will also include literary analysis, sonnets, and creative writing assignments which demonstrate an understanding of Shakespeare's life, work, and theater in general.

Creative Writing

0.50 Credit Prerequisites: English 11.2

This course is a reading and “workshop” introduction to the fundamental working modes (poetry, short stories, and drama) of creative writing, based in a broad survey of literary approaches and viewed from the standpoint of the writer.

Mythology

0.5 Credit Prerequisites: English 11.2

This course will examine classical and world mythology. It will focus specifically on creation myths from various world cultures, classical mythology, the hero’s journey, and epics. Critical thinking, research, small group discussions, and oral presentations will be emphasized.

AP English Composition 1 & 2

1.00 Credit Prerequisites: English 10.2

This course is designed to challenge the highly motivated, college bound student. This rigorous course emphasizes language (verbal abilities) and composition (writing abilities) using American literature as the vehicle. Students will be able to identify, apply, analyze, and evaluate multiple rhetorical strategies. The course focuses on the historical, social, and cultural significance of American fiction and nonfiction, the development of students’ stylistic maturity in their own writing, research skills, and vocabulary development. Upon successful completion of this course, students are encouraged to take the AP Language and Composition Exam. The student who scores well on the examination can receive up to a full year of English credit from most colleges and universities. This is a two block course. Students are not eligible to join the second quarter of this class unless they have completed AP English Comp 1 or a comparable course.

AP English Literature 1 & 2

1.00 Credit Prerequisites: English 10.2

This course is designed to challenge the highly motivated, college bound student. This rigorous course surveys the literature of the world with a particular emphasis on the European writers. Culture, history, ideology, philosophy, and religion complement the critical analysis of literature. In depth discussion, composition and research synthesize the main components of this stringent course. Students in this course should have superior interpretive abilities as well as a competent command of composition and research skills. Upon successful completion of this course, students are encouraged to take the AP Literature and Composition Exam. The student who scores well on the examination can receive up to a full year of English credit from most colleges and universities. This two block course. Students are not eligible to join the second quarter of this class unless they have completed AP English Lit 1 or a comparable course.

AP English Test Prep

0.50 Credit Prerequisites: AP Comp/AP Lit

This course is designed to prepare students specifically for the AP English Test they are planning to take in May. It will cover more fully test taking skills, vocabulary, multiple choice practice, writing practice and a novel study. Once students are done taking the test, the class is either used as a study hall or students may be done for the day (Depending on the time that the class is being taken - if during 1-3 hours, students must stay for a study hall. If the class is during 4th hour, students will be dismissed after the test has been taken.) **This course is considered AP; however, it is an elective credit.**

Mathematics

A student must complete 4 academic credits (8 classes) of Mathematics in order to meet the MHPHS graduation requirement.

Algebra Foundations

0.50 Credit Prerequisites: None

This course covers fundamental math concepts and is designed to provide students an opportunity to increase their math aptitude prior to entering an Algebra course. Course topics include math vocabulary, operations on rational numbers, order of operations, simplifying and evaluating algebraic expressions, culminating in solving basic equations and inequalities. **This course does not meet the Mathematics requirement for graduation and is considered an elective credit.**

Algebra 1.1

0.50 Credit Prerequisites: Placement Test Eligibility or Algebra Foundations

This course will involve further study of Algebraic concepts including graphing and writing linear functions, solving systems of equations and graphing systems of inequalities. This course will provide a solid foundation for further study in mathematics by helping students develop computational, procedural, and problem-solving skills. Students will be taught how to translate real-life situations to mathematical models and obtain solutions.

Algebra 1.2

0.50 Credit Prerequisites: Placement Test Eligibility or Algebra 1.1

This course completes the first-year Algebra sequence by introducing students to exponential functions, including growth, decay and interest problems. Students will also be taught how to simplify algebraic expressions using the properties of exponents, operations with scientific notation, performing operations on polynomials, factoring polynomials, and solving quadratic equations. Students will also engage in basic statistics investigations. Students will continue to model real-world situations using the skills learned in this class by applying problem solving strategies.

Math Lab

0.50 Credit

This course is a designed class for remediation. It helps students who are behind or have failed in an Algebra or Geometry class. It is taught in an independent setting by a highly qualified teacher who helps monitor and instruct students as they go through the course in the MathXLforSchool online program. Students will receive a math credit for the specific math class they are taking.

Geometry 1

0.50 Credit Prerequisites: Algebra 1.2 or Placement Test Eligibility

This course includes communicating with vocabulary and notation of Geometry, deductive reasoning, problem solving and applications of Geometric Theorems, drawings and models to real world problems. The student will make connections between Geometry, Algebra, discrete mathematics, and number theory. Students will also do basic geometric constructions, proofs, and transformations of shapes and graphs.

Geometry 2

0.50 Credit Prerequisites: Geometry 1 or Placement Test Eligibility

This course is a continuation of Geometry 1. Students will solve problems involving ratios and proportions, similarity, applications of the Pythagorean Theorem, and right triangle trigonometry. This course also contains the properties and formulas of polygons and circles. Students will solve problems involving the area of 2-dimensional shapes, surface area and volume of 3-dimensional solids, ratios of perimeter, area, and volume. Students engage in using Geometry to model and solve real-world applications.

Algebra 2.1

0.50 Credit Prerequisites: Geometry 2 or Placement Test Eligibility

This begins with a review of concepts from Algebra 1 (solving and graphing linear equations, linear systems and factoring polynomials), as well as increasing the level of complexity of those problems. Imaginary and Complex numbers will be introduced, so that students can perform operations on them. Students will learn how to solve and graph Quadratic Equations. Students will also be able to solve systems of equations involving linear and quadratic equations.

Statistics

0.50 Credit Prerequisites: Algebra 2.1

This course involves the study of both Probability and Statistical modeling. Students will learn how to calculate various kinds of probability (experimental and theoretical, independent and conditional), and solve problems based on those probabilities. Students will also learn how to collect, organize, and interpret data, statistics, and displays of data.

Algebra 2.2

0.50 Credit Prerequisites: Statistics

This course continues the formal study of algebraic concepts with the study of polynomial, radical, exponential and logarithmic functions and equations (specifically how to solve and graph them), and applying exponential growth and decay models. Students will also be introduced to the Trigonometric concepts of degrees and radians, as well as graphing basic Trigonometric functions.

Financial Algebra

0.50 Credit Prerequisites: Algebra 2.2

This course builds on the algebra concepts learned in prior courses. Students will learn to apply advanced algebra skills to areas that will benefit them in their adult life: Stock Market, Business, Banking and Credit, Auto Ownership, Employment, Income Tax, and Retirement.

Trigonometry

0.50 Credit Prerequisites: Algebra 2.2

Trigonometry is a higher level math course that incorporates the previous math content learned in Geometry including sine, cosine and tangent functions and right triangular geometry. Students will be able to graph the trigonometric functions, solve right triangles, apply identities and formulas specific to trigonometric ratios. Students will also be introduced to the Polar Coordinate system and vectors.

Pre-Calculus

0.50 Credit Prerequisites: Algebra 2.2

This course includes the study of: solving systems of equations using matrices, working with conics (ellipses, hyperbolas, and parabolas), parametric equations, sequences and series, the Binomial Theorem, and probability modelling. It ends with a discussion about limits, continuity, and basic derivatives of functions.

AP Calculus A/B

1.00 Credit Prerequisites: Trigonometry

This course consists of two quarters of work in Calculus with related topics comparable to first semester courses in college and universities. Topics include: limits and continuity, derivatives, integrals, differential equations, and applications of all of these topics in real-world situations. This is a two block course. Students are not eligible to join the second quarter of this class unless they have completed AP Calculus A or a comparable course.

AP Calculus Test Prep

0.50 Credit Prerequisites: AP Calculus A/B

This course is designed to prepare students specifically for the AP Calculus Test they are planning to take in May. It will cover more fully test taking skills and other necessary skills to be successful on the test.

Once students are done taking the test, the class is either used as a study hall or students may be done for the day (Depending on the time that the class is being taken - if during 1-3 hours, students must stay for a study hall. If the class is during 4th hour, students will be dismissed after the test has been taken.)

This course is considered AP; however, it is an elective credit.

Science

A student must complete 3 academic credits (6 classes) of Lab Science in order to meet the MHPHS graduation requirement

Biology 1

0.50 Credit Prerequisites: None

This class will investigate the history of life on earth. Specifically, this class will focus on the origin of life on earth, the evolution of life forms and how these systems and life forms are interrelated. Biology 1 will also cover basic ecology – how organisms interact with one another. The Biology curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Biology 2

0.50 Credit Prerequisites: None

This class will investigate the basic structure of life and the flywheel of evolution: genetics. Students will explore the genetic basis for heredity and inheritance, as well as how cells, which protect genes, are able to function and reproduce. The Biology curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Chemistry 1

0.50 Credit Prerequisites: Biology 2

The central theme of this course is scientific investigation through hands-on laboratory experimentation and the use of conceptual models. A knowledge base will be acquired through units on: Measurements in Chemistry, Composition of Matter, Atomic Structure, Atomic Theory, Periodic Table of Elements, Chemical Bonds, and Stoichiometry and Gases. The Chemistry curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Chemistry 2

0.50 Credit Prerequisites: Chemistry 1

The central theme of this course is scientific investigation through hands-on laboratory experimentation and the use of conceptual models. A knowledge base will be acquired through units on: Gases, Solutions, Kinetics, Equilibrium, Acid/Base Chemistry, Thermodynamics, and Electrochemistry. The Chemistry curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Human Anatomy

0.50 Credit Prerequisites: Biology 1&2

Human Anatomy teaches students about the basic underlying structure of the human body. Students will learn about the skeletal, muscular, and nervous systems through lecture, labs, and in-class group work. The Human Anatomy curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Human Physiology

0.50 Credit Prerequisites: Biology 1&2

Human Physiology teaches students about the basic underlying structure of the human body. Students will learn about the cardiovascular, digestive, renal, respiratory and reproductive systems through lecture,

labs, and in-class group work. The Human Physiology curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Agricultural Science 1

0.50 Credit Prerequisite: Biology 2

This course is an introductory course designed to expose students to various segments of the agriculture industry. Students will gain knowledge in the history of agriculture, soil, plants, pests, floriculture, nursery production landscaping, fruit and nut production, crops, forest science. Instruction and student learning will occur through lectures, student projects, group discussions, and related videos. The basic of FFA will also be introduced in this class, but students will not be in FFA.

Agricultural Science 2

0.50 Credit Prerequisite: Agricultural Science 1

This course is an introductory course designed to expose students to various segments of the agriculture industry and is a continuation of Agricultural Science 1. Students will gain knowledge in the protecting the environment, organic agriculture, livestock, dairy, and the poultry industries, aquaculture, companion animals, preserving our food supply, biofuels and biotechnology, careers in agricultural science. Instruction and student learning will occur through lectures, student projects, group discussions, and related videos. The basic of FFA will also be introduced in this class, but students will not be in FFA.

Physics 1

0.50 Credit Prerequisites: Biology 1 & 2, Algebra 2.1, or Instructor Approval

The central theme of this course is scientific investigation through hands-on laboratory experimentation and the use of conceptual models. A knowledge base will be acquired through units on: Scalars and Vectors, one-dimensional and two-dimensional motion, Newton's Laws of Motion, Momentum & Impulse, Energy and Work, Thermodynamics, and General & Specific Relativity. The Physics curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Physics 2

0.50 Credit Prerequisites: Biology 1 & 2, Algebra 2.1, or Instructor Approval

The central theme of this course is scientific investigation through hands-on laboratory experimentation and the use of conceptual models. A knowledge base will be acquired through units on: Waves, Sound and Light, Electrostatics, Magnetism, and Nuclear Physics. The Physics curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Social Studies

A student must complete 3 academic credits (6 classes) of Social Studies in order to meet the MHPHS graduation requirement.

World History 1

0.50 Credit Prerequisite: None

This course covers world history and geography from early civilization to the Renaissance. Students are required to read literary works and other primary source materials that relate to the course. Strong writing and research skills are necessary to be successful in this class. Critical thinking and problem solving will be encouraged, along with individual and group multi-skill projects in this challenging course. The integration of all forms of technology will be encouraged.

World History 2

0.50 Credit Prerequisite: None

This course covers world history and geography from the Renaissance to the Modern Age. Students are required to read literary works and other primary source materials that relate to the course. Strong writing and research skills are necessary to be successful in this class. Critical thinking and problem solving will be encouraged, along with individual and group multi-skill projects in this challenging course. The integration of all forms of technology will be encouraged.

US/Arizona History 1 & 2

0.50 Credit each Prerequisite: World History 2

The course will cover American history from the founding of the United States to the present. Special emphasis will be placed on the 20th century era, and specifically from The Great Depression to the present. Students will study U.S. foreign policy, and the many political and social movements that shaped American culture. Problem solving, critical thinking, writing, research, geographic skills, cooperative learning activities, and the integration of technology are encouraged.

United States Government

0.50 Credit Prerequisites: US/Arizona History 2

This course examines American government through a comprehensive study of the US Constitution, the Legislature, the Executive, and the Judiciary branches. Emphasis will focus on the comparison of each subject matter to other forms of government and the relationship of each subject matter to real world applications and current political events.

Economics

0.50 Credit Prerequisites: US/Arizona History 2

This course examines American economics with an emphasis on micro- and macro-economic issues. The course will study economic principles and systems, supply and demand, price and competition, business organizations, money and banking, and finance. The course will prepare students for college economic courses.

AP World History 1 & 2

1.00 Credit Prerequisites: Teacher Assessment and Admin Approval

AP World History is a rigorous, college-level course designed to explore human history from 8000 B.C.E. to the present. This course emphasizes the development of analytical and writing skills necessary for success at the collegiate level. To this end, the course devotes considerable time to the critical evaluation

of primary and secondary sources, analysis of historiography (The principles, theories, or methodology of scholarly historical research and presentation) and inquiry into global connections that have shaped our present world. A special emphasis will be given to preparation for the National AP Exam, including historical writing through essay and document-based questions (DBQ) as well as objective evaluations. All students will be encouraged to take the College Board's examination for this subject. Success on this exam will grant the student credit or advanced placement at many colleges and universities. This is a two block course. Students are not eligible to join the second quarter of this class unless they have completed AP World History 1 or a comparable course.

AP US History 1 & 2

1.00 Credit Prerequisites: World History 2

The AP United States History course surveys the history of the United States of America from the time period commonly referred to by historians as the Pre-Columbian Era to the present day. The AP United States History course challenges students with a rigorous set of curricular expectations that mirror typical college full-year introductory US history courses. Curricular expectations are aligned to the assessment model of the AP U.S. History Exam. Thus, the heavy emphasis placed on the mastery of the wide breadth of historical knowledge and the analytical skills necessary to think critically within the discipline prepares the students for the opportunity of passing the exam to earn possible college credit. All students will be encouraged to take the College Board's examination for this subject. Success on this exam will grant the student credit or advanced placement at many colleges and universities. This two block course. Students are not eligible to join the second quarter of this class unless they have completed AP US History 1 or a comparable course.

AP US Government

1.00 Credit Prerequisites: AP US History 1 & 2

This course is designed to provide students with a basic knowledge of the purpose, structure, and operation of the national and state governmental systems. The primary content of study is the Federal system and its underlying principles as they are related on National, State, and local levels. This course is designed to be rigorous and challenging for students. Good reading, writing, critical thinking and listening skills are essential for success in this class. In additions good organizational skills will foster student success in this class. U.S. Government is a requirement for graduation at Mission Heights. Students will utilize technology and other outside sources in order to maximize their knowledge of the course content.

AP History Test Prep

0.50 Credit Prerequisites: AP US Hist 1&2/AP Gov; AP World History

This course is designed to prepare students specifically for the AP History or Government Test they are planning to take in May. It will cover more fully test taking skills, vocabulary, multiple choice practice, writing practice and other necessary skills to be successful on the test. Once students are done taking the test, the class is either used as a study hall or students may be done for the day (Depending on the time that the class is being taken - if during 1-3 hours, students must stay for a study hall. If the class is during 4th hour, students will be dismissed after the test has been taken.) **This course is considered AP; however, it is an elective credit.**

Intro to Politics

0.50 Credit Prerequisites: none

When students complete the course, they will be able to respectfully debate political issues with informed opinions, form their own political philosophy, vote with confidence, and be able to distinguish real

information from propaganda. Students will also study the constitution, political philosophers, ideologies, systems of government and current events.

Advanced Politics

.50 Credit Prerequisites: Intro to Politics

Advanced politics will feel like a continuation of the intro class but with the main added feature: The Election Game. This game encompasses all of your assignments into running an election campaign as either yourself or another classmate. At the end of the quarter one student is elected as President as declared the winner. Otherwise, this class includes additional lectures and debates regarding relevant political topics.

Physical Education

Students have a minimum of 6 credits of general electives in order to meet the MHPHS graduation requirement. Physical Education classes help meet that requirement.

Fitness

0.50 Credit Prerequisites: None

Students will be offered a variety of physical activities and sport geared to facilitate a healthy and active lifestyle. Students will participate in different team and individual sports as well developing an understanding for various health-related topics. This class is designed to foster a positive attitude towards physical activity.

Nutrition/Health

0.50 Credit Prerequisites: None

Students will develop an understanding of how to live a healthy and active lifestyle as well as develop exciting ways to promote exercise, nutrition, and mental health. Students will also learn about various forms cancers and diseases and find various ways to protect themselves and others from those health issues.

Plyometrics

0.50 Credit Prerequisites: None

In this class students will focus on the aspects of speed, agility, and sports training as well as participate in team building and team sports. Students will also develop an understanding of a variety of health topics and work towards living a healthy and active lifestyle.

Sports Theory

0.50 Credit Prerequisites: None

This class is designed for students who are looking to expand their knowledge of a variety of sports. Students will also look into social theories and apply these theories to current topics in sports, such as performance-enhancing drugs, gender, race, identity issues, and the role of religion in sport.

Weight Training

0.50 Credit Prerequisites: None

Weight training is a class where students will learn the benefits of proper muscular training, technique and form. On a daily basis students will push themselves with activities that challenge their upper and lower body strength and agility. This class is for hardworking and motivated students.

AVID

AVID (Advancement via Individual Determination) is offered as an elective course that prepares students for entrance into four-year colleges. There is an emphasis on analytical writing, preparation for college entrance and placement exams, study skills and test taking, note-taking, and research.

Phantom 101

0.50 Credit Prerequisites: Incoming Freshmen and Transfer Students

Phantom 101 is a required course for students new to Mission Heights. It is an introduction to the AVID system, which is used school wide. Students will be introduced to many skills, which will allow them to be successful in high school and beyond.

AVID

0.50 Credit Prerequisites: Phantom 101, Student Selection Process

AVID is an elementary through postsecondary college readiness system that is designed to increase school-wide learning and performance. The AVID system accelerates student learning, uses research based methods of effective instruction, provides meaningful and motivational professional development, and acts as a catalyst for systemic reform and change. AVID targets students who are considering college but do not possess the tools to meet those college goals. AVID meets five periods per week. Students receive two periods of instruction per week in college entry skills, two periods per week in tutor-led study groups, and one period per week in motivational activities and academic survival skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, and reading to support their academic growth.

College Preparation Seminar Courses

Students have a minimum of a 1.0 credit (2 classes) of college preparation seminar courses in order to meet the MHPHS graduation requirement.

Public Speaking

0.50 Credit Prerequisites: Must be a Junior (unless allowed by an administrator)

Students will learn to identify the situation, purpose, and audience of a speech in order to determine the proper method for speech delivery. Students will be guided through speech preparation, delivery, and evaluation. They will incorporate research and visual aids within their speeches. They will learn to deliver informational, persuasive, impromptu, and special occasion speeches both individually and cooperatively.

Personal Finance

0.50 Credit Prerequisites: Must be a Junior (unless allowed by an administrator)

Students will be preparing for their futures by learning how to be financially responsible. They will be discovering methods to save, including IRAs and 401ks. Students will also learn to create budgets to live within their means and how to balance checkbooks. They will discover the significance of good credit and how to achieve it.

Logic

0.50 Credit Prerequisites: Must be a Junior (unless allowed by an administrator)

Students will learn the basics of logic in general (arguments, statements, premises, and conclusions). They will learn more about the different types of logic (syllogistic, truth-functional, quantificational, and inductive). Students will also be able to identify common fallacies that are used to "prove" points or ideologies. Critical thinking skills and analysis of thoughts and ideas will be developed and improved upon. Students will also be exposed to some of the great philosophers (Socrates, Plato, and Aristotle).

College Preparations

0.50 Credit Prerequisites: Must be a Junior (unless allowed by an administrator)

College prep is a class that covers all aspects of the college application process. Students will be covering deadlines, applications, resumes, portfolios, scholarships and tuition, and ways to stand out during the college process.

General Electives

Students have a minimum of 6 credits of general electives in order to meet the MHPHS graduation requirement.

Yearbook

0.50 Credit Prerequisites: None

Students in this course are responsible for the design and publication of the High School Yearbook. Students should have a background or interest in one of the following areas: photography, desktop publishing, art/design or written language. Those enrolled must research the need and the market for this product. They must design a new or improved product that meets the need and review the success of this product. Students must produce quality work, work together in groups, must be able to handle deadline pressure and should expect to spend additional time outside of the class working on the publication.

Technology Applications

0.50 Credit Prerequisites: None

Tech apps is a very basic introduction to computer use. Students learn how a computer is built, how it works, and some terminology as well as online citizenship. Students also receive training in some simple but marketable applications such as MS office, and an intro to Photoshop. Students will also learn how to design a website and make a YouTube channel, so that they can market their skills for the future.

Competitive Gaming

.50 Credit Prerequisites: None

In Competitive Gaming, students learn about the competitive world of E-Sports and receive coaching on the most popular e-sport, League of Legends. Students will develop their game mechanics, study game concepts, develop their spatial awareness and work on improving their attitude during a game. Students who excel at the game will have chance to join the MHP league of legends team.

Film History

0.50 Credit Prerequisites: None

The curriculum for Film History examines cinema through the 20th century and techniques of film production as they influenced American culture. We will view many films in this course representing a variety of cinematic genres, from the Silent Era to the Film School Generation, and analyze the parallels between each cinematic style and the events that shaped American culture and history.

Literature & Film

0.50 Credit Prerequisites: None

Stories are an essential part of every human culture; they help us to make meaning and to understand ourselves, each other, and our place in the world. The means by which these stories are told – whether they are written, spoken, or acted on stage or on screen – influences the way we approach and interpret them. Film, while it may be influenced by written work, should always be considered an entirely unique piece of art for the purposes of critique and analysis. This course explores the complex interplay between film and literature. Selected novels, short stories and plays are analyzed in relation to film versions of the same works in order to gain an understanding of the possibilities—and problems—involved in the transposition to film. We will also investigate films that do not have written work as their inspiration to discover the ways in which these stories work in terms of our understanding of the nature of literature and the role it plays in our lives.

Central Arizona College Classes

THE-115- Introduction to Cinema/CAC Film

3 College Credits and 0.50 High School Credit Prerequisites: CAC Class RDG 094 or Placement Test Eligibility

This dual credit high school/college class requires the student to complete the prerequisite of CAC class RDG 094 class in reading or pass a reading competency test prior to enrollment. The student will also need to pay tuition for the 3 hours of college credit. The class instruction is a survey of the history and development of the art of motion pictures from 1950 to present. This course will include criticism of aesthetic and technical film elements. Students will watch films and then complete critical analysis papers on viewed assignments.

ENG101 English Composition III

3 Credits (3 Lectures) ENG 1101 R

Prerequisite: ENG100. Prerequisite or corequisite: RDG100.

Advancement of ability to analyze and write academic, college level essays with an emphasis on developing ideas and using a process of writing, revising and editing to create organized, coherent, fully articulated essays that reflect the conventions of English grammar, mechanics and usage.

ENG102 English Composition IV

3 Credits (3 Lectures) ENG 1102

Prerequisite: ENG101

Emphasis on critical thinking, close reading, analysis and advanced research skills through the development, writing and revision of complex arguments.