



University Pathways Medical Magnet Academy

2017-2018 Course Catalog

A. SOCIAL STUDIES

WORLD HISTORY, CULTURE, AND GEOGRAPHY: THE MODERN WORLD AB

Annual Course – Grade 10

Prerequisite: None

370127 Wld His/Geo: Mod Wld A

370128 Wld His/Geo: Mod Wld B

Course Description: The purpose of this course is to examine major turning points in the shaping of the modern world, from the late eighteenth century to the present. The course begins with an introduction to current world issues and then continues with a focus on the expansion of the West and the growing interdependence of people and cultures throughout the world. This course meets the graduation and “A-G” requirements.

ADVANCED PLACEMENT WORLD HISTORY AB

Annual Course – Grade 10

Prerequisite: None

370133 AP Wld His A

370134 AP Wld His B

Course Description: The major purpose of this course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge used in conjunction with leading interpretive issues and types of historical evidence. The course builds on understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as field of study. If a student passes the CEEB Advanced Placement Exam, this course may be accepted by colleges for course credit.

B. ENGLISH/LANGUAGE ARTS

ENGLISH 9AB

Annual Course – Grade 9

Prerequisite: None

230107 ENGLISH 9A

230108 ENGLISH 9B

ENGLISH 9AB HONORS

Annual Course – Grade 9

Prerequisite: None

230107H H ENGLISH 9A

230108H H ENGLISH 9B

Course Description: The major purpose of this course is to analyze literature and expository text in greater depth and produce complex writing assignments. Students will continue to apply the knowledge and skills acquired in earlier grades with more refinement, depth, and sophistication with grade-appropriate material. The California Reading/Language Arts Framework states that students in the ninth grade are expected to read one and one-half million words annually on their own, including a good representation of classic and contemporary literature, magazines, newspapers, and online articles. Students will apply and refine their command of the writing process and writing conventions to produce narrative, persuasive, expository, and descriptive texts of at least 1,500 words each.

English 9AB/H English 9AB is organized into three standards-based instructional components that focus on persuasion, exposition, and literary analysis, integrating skills of reading, writing, listening, and speaking. During the persuasion instructional component, students will read persuasive texts, with a focus on the credibility of an author's argument, the relationship between generalizations and evidence, the comprehensiveness of evidence, the way in which the author's intent affects the structure and tone of the text, and extend ideas through original analysis, evaluation, and elaboration. Students will also write persuasive essays and deliver persuasive presentations. In the exposition component, students will read expository texts, with a focus on synthesizing and extending ideas presented in primary and secondary sources, including works by a single author dealing with a single issue. In addition, students will write

expository essays and deliver expository presentations. During the literary analysis component, students will read literary texts, with a focus on analyzing central themes in multiple works as well as analyzing themes in relation to issues of an historical period. Students will write responses to literature and deliver oral responses to literature. English 9 AB meets the basic ninth-grade English requirement for graduation and fulfills the B requirement of the UC/CSU Subject Area Requirements.

ENGLISH 10AB

Annual Course – Grade 10

Prerequisite: English 9AB

230109 ENGLISH 10A

230110 ENGLISH 10B

ENGLISH 10AB HONORS

Annual Course – Grade 10

Prerequisite: English 9AB or H English 9AB

230109H H ENGLISH 10A

230110H H ENGLISH 10B

Course Description: The major purpose of this course is to emphasize analyzing literature in greater depth, analyzing expository text, and producing more complex writing assignments. Students will continue to apply the knowledge and skills acquired in earlier grades with more refinement, depth, and sophistication with grade-appropriate material. The California Reading/Language Arts Framework states that students in the tenth grade are expected to read one and one-half million words of annually on their own, including a good representation of classic and contemporary literature, magazines, newspapers, and online articles. Students will apply and refine their command of the writing process and writing conventions to produce narrative, persuasive, expository, and descriptive texts of at least 1,500 words each.

English 10AB/H English 10AB is organized into three standards-based instructional components that focus on persuasion, exposition, and literary analysis, integrating skills of reading, writing, listening, and speaking. During the persuasion instructional component, students will read persuasive texts, with a focus on the credibility of an author's argument, the relationship between generalizations and evidence, the comprehensiveness of evidence, the way in which the author's intent affects the structure and tone of the text, and extend ideas through original analysis, evaluation, and elaboration. Students will generate relevant questions about readings on issues and engage in research.

Students will also write persuasive essays and deliver persuasive presentations. In the exposition instructional component, students will read expository texts and use what they have learned to establish a controlling impression or coherent thesis that conveys a clear and distinctive perspective on a subject and maintain a consistent tone and focus throughout a piece of writing. They will use primary and secondary sources accurately, distinguish between information and the significance of the data, be aware of audience, anticipate misunderstandings, and use subject-specific terms accurately. During the literary analysis component, students will read literary texts (e.g., short stories, poetry, and longer works, including novels), recognize and understand the significance of various literary devices, including figurative language, imagery, allegory, and symbolism, and explain their appeal. Students will also explain how voice, persona, and the choice of a narrator affect characterization and the tone, plot, and credibility of a text. Students will write responses to literature and deliver oral responses to literature. English 10AB meets the basic tenth-grade English requirement for graduation and fulfills the B requirement of the UC/CSU Subject Area Requirements.

C. MATHEMATICS

COMMON CORE ALGEBRA 1AB

Annual Course – Grade 9 or 10

Prerequisite: Common Core Mathematics 8 AB

310341 CC Algebra 1A

310342 CC Algebra 1B (10 credits)

COMMON CORE HONORS ALGEBRA 1AB

Annual Course – Grade 9 or 10

Prerequisite: Common Core Mathematics 8 AB

310341H H CC Algebra 1

310342H H CC Algebra 1 (10 credits)

COURSE DESCRIPTION The purpose of Algebra I is for students to use reasoning about structure to define and make sense of rational exponents and explore the algebraic structure of the rational and real number systems. They understand that numbers in real world applications often have units attached to them, that is, they are considered quantities. Students explore the structure of algebraic expressions and polynomials. They see that certain properties must persist when working with expressions that are meant to represent numbers, now written in an abstract form involving variables. When two expressions with overlapping domains are set equal to each other, resulting in an equation, there is an

implied solution set (be it empty or non-empty), and students not only refine their techniques for solving equations and finding the solution set, but they can clearly explain the algebraic steps they used to do so.

In Algebra IAB/Honors Algebra 1AB, students extend this knowledge to working with absolute value equations, linear inequalities, and systems of linear equations. After learning a more precise definition of function in this course, students examine this new idea in the familiar context of linear equations (for example, by seeing the solution of a linear equation as solving $f(x) = g(x)$ for two linear functions f and g). Students continue building their understanding of functions beyond linear ones by investigating tables, graphs, and equations that build on previous understandings of numbers and expressions. They make connections between different representations of the same function. They learn to build functions in a modeling context, and solve problems related to the resulting functions. Note that the focus in Algebra I is on linear, simple exponential, and quadratic equations.

This course is offered to students who demonstrate a thorough understanding of Pre-algebra concepts. The intent of the course is to develop skill and understanding of the language of algebra, functions, number operations, solving and graphing equations and inequalities involving real-world concepts, ratios, quadratic functions, factoring terms, completing the square, using the quadratic formula, monomial and polynomial expressions, exponents and rational expressions, and problem solving. Through the study and use of Algebra, the learner develops an understanding of the symbolic language of mathematics and the sciences. Algebra 1 develops the skills and concepts to help solve a wide variety of problems. Goals: A) To help students own and command the language of Algebra; B) To prepare students for the study of higher mathematics and for those who are college bound, to provide a basic understanding of the symbolic nature of algebra; C) To focus on the big ideas of Algebra 1.

Finally, students extend their prior experiences with data, using more formal means of assessing how a model fits data. Students use regression techniques to describe approximately linear relationships between quantities. They use graphical representations and knowledge of the context to make judgments about the appropriateness of linear models. With linear models, they look at residuals to analyze the goodness of fit.

COMMON CORE GEOMETRY AB

Annual Course – Grade 9 or 10

Prerequisite: Common Core Algebra 1

310423 CC GEOMETRY A

310424 CC GEOMETRY B

COMMON CORE HONORS GEOMETRY AB

Annual Course – Grade 9 or 10

Prerequisite: Common Core Algebra 1

310423H H CC GEOMETRY A

310424H H CC GEOMETRY B

The essential purpose of this Geometry course is to introduce students to formal geometric proofs and the study of plane figures, with an emphasis on plane Euclidean geometry—both synthetically and analytically. Furthermore, transformations of rigid motion are the foundations of proof for congruency and similarity. Concepts included in this course are geometric transformations, proving geometric theorems, congruence and similarity, analytic geometry, right triangle trigonometry, and probability and statistics. Students are expected to model real world situations and make decisions using these ideas.

D. SCIENCE**BIOLOGY AB**

Annual Course - Grade 9

Prerequisite: None

360701 BIO A

360702 BIO B

Course Description: The major purpose of this laboratory-based college preparatory course is to provide understanding of the basic biological concepts: the diversity of organisms; the cell; heredity; matter, energy, and organization of living systems; evolution of living systems; physiology; the biosphere and interdependence of abiotic and biotic factors. Focus is on active student participation in laboratory investigations and the development of critical-thinking skills. Biology AB lays the foundation for further studies in Biology and also serves as an Advanced Placement Biology readiness course. Biology AB meets the Grades 9-12 District life science graduation requirement (Students must complete one year of a physical and a life science requirement). This

course meets one year of the University of California 'd' entrance requirement for laboratory science.

CHEMISTRY AB

Annual Course—Grade 10

Prerequisite: CC Algebra 1, CC Geometry is recommended

361401 CHEM A

361402 CHEM B

Course Description: Chemistry is a laboratory-based college-preparatory course. Laboratory experiments provide the empirical basis for understanding and confirming concepts. This course emphasizes discussions, activities, and laboratory exercises, which promote the understanding of the behavior of matter at the macroscopic and the molecular-atomic levels. Chemical principles are introduced so that students will be able to explain the composition and chemical behavior of their world. Chemistry AB lays the foundation for further studies in Chemistry and also serves as an Advanced Placement Chemistry readiness course. Chemistry AB meets the Grades 9–12 District physical science requirement. Students must complete one physical and one life science requirement. This course meets one year of the University of California 'd' entrance requirement for laboratory science

E. WORLD LANGUAGE (AVAILABLE 2019-2020)

F. FINE ARTS

INTRODUCTION TO THEATRE AB

Annual Course—Grade 9

Prerequisite: None

380201 THEA INTRO SH A

380202 THEA INTRO SH B

The purpose of this course is to provide a balanced theatre arts program that guides students to achieve the standards in the performing arts. The course will emphasize artistic perception and creative expression. It will promote understanding of aesthetic valuing, historical and cultural awareness, and the interconnections of the arts and other disciplines. Students will be trained in the fundamental skills of the theatre arts, including improvisation techniques, body control, voice, diction, pantomime, learning of lines, creation of character,

projection of ideas and emotions and preparation and acting of scenes from plays. Acting projects will provide positive group experiences in collaborative assignments, developing self-discipline, evaluating the performances of others, and accepting constructive criticism. Instruction develops language skills and appreciation through reading dramatic literature from various periods and cultures; using written critiques to evaluate one's own work and that of others; writing dramatic scenes; character analyses, play reports, and introductions; observing with sensitivity; listening critically; and speaking effectively.

G. COLLEGE-PREP ELECTIVE (AVAILABLE 2019-2020)

NON A-G CREDIT/LAUSD REQUIRED

ADVANCED PHYSICAL EDUCATION 1 AB

Annual Course—Grade 9

Prerequisite: None

330105 ADV PE 1 A

330106 ADV PE 1 B

ADVANCED PHYSICAL EDUCATION 2 AB

Annual Course—Grade 10

Prerequisite: ADV PE 1 AB

330121 ADV PE 2 A

330122 ADV PE 2 B

This course enables students to refine their skills and provides for the acquisition of skills necessary to participate on an advanced level in aquatics; dance/rhythms; individual activities; and dual activities. Additionally, the effects of physical activity on dynamic health and the mechanics of movement cognitive concepts will be threaded through each of the three activities. Students develop an in-depth understanding of the components of total health related fitness in a unit that emphasizes the physiological, and social benefits of a healthy, active life-style. All students must also be tested in the state physical fitness assessment.

HEATH EDUCATION

Annual Course—Grade 9

Prerequisite: None

260103 HEALTH SH (ONE SEMESTER)

HEALTH CAREERS/CAREER AND TECHNICAL EDUCATION**EXPLORING HEALTH CAREERS 1 (ONE SEMESTER)**

Annual Course—Grade 9

Prerequisite: None

270433 EXP HLTH CAR 1

EXPLORING HEALTH CAREERS 2 (ONE SEMESTER)

Annual Course—Grade 9

Prerequisite: EXP HLTH CAR 1

270435 EXP HLTH CAR 2

EXPLORING HEALTH CAREERS 3 (ONE SEMESTER)

Annual Course—Grade 10

Prerequisite: EXP HLTH CAR 2

270437 EXP HLTH CAR 3

MEDICAL TERMINOLOGY (ONE SEMESTER)

Annual Course—Grade 10

Prerequisite: EXP HLTH CAR 3

270101 MEDICAL TERMINOLOGY

HEALTH CAREERS AB

Annual Course—Grade 11

Prerequisite: MEDICAL TERMINOLOGY

260401 HLT CAR A

260402 HLT CAR B

HOSPITAL OCCUPATIONS AB

Annual Course—Grade 11
Prerequisite: HEALTH CAREERS AB
270321 HOSP OCC A
270322 HOSP OCC B

DENTAL ASSISTANT 1 AB

Annual Course—Grade 10
Prerequisite: EXP HLTH CAR 1
663551 DENT ASST 1A
663552 DENT ASST 1B

DENTAL ASSISTANT 2 AB

Annual Course—Grade 11
Prerequisite: DENT ASST 1AB
663557 DENT ASST 2A
663558 DENT ASST 2B

DENTAL ASSISTANT 3 AB

Annual Course—Grade 12
Prerequisite: DENT ASST 2AB
663561 DENT ASST 3A
663562 DENT ASST 3B

ANIMAL SCIENCE 1 AB

Annual Course—Grade 10
Prerequisite: EXP HLTH CAR 1
240121 ANI SCI 1A
240122 ANI SCI 1B

ANIMAL SCIENCE 2 AB

Annual Course—Grade 11
Prerequisite: ANI SCI 1AB
240123 ANI SCI 2A
240124 ANI SCI 2B

ANIMAL CARETAKING (SEMESTER)

Annual Course—Grade 12

Prerequisite: ANI SCI 2AB

601550 ANI CARETAKING

VETERINARIAN TECHNICIAN (SEMESTER)

Annual Course—Grade 12

Prerequisite: ANI CARETAKING

6015570 VET TECH