

COURSE DESCRIPTIONS

ART 47009 Ceramics I

(Grades 9-12) Prerequisite: None Students must take full year to enroll in this class (10 units)

Ceramics I is an introductory course with ceramic materials emphasizing hand-building techniques as well as beginning wheel-thrown forms. Assessment is based on effort and improvement regardless of entry-level skills or personal aptitude. Material fee required. UC, CSU, Fine Arts Graduation Requirement

ART 47012 Ceramics 2

(Grades 10-12) Prerequisite: Ceramics 1 Students must take full year to enroll in this class (10 units)

This course is a continuation of the student's development and mastery of ceramic methods and materials in plastic and non-plastic three-dimensional form. Material fee required. UC, CSU, Fine Arts Graduation Requirement

ART 47021 Digital Photography

(Grades 9-12) Prerequisite: None Students must take full year to enroll in this class (10 units)

This course covers the basic concepts of photography as an art, as well as a digital medium. Students will learn how to operate their cameras to get the best results in various light situations. Photo editing software, Adobe Photoshop, will be used to edit and enhance photographs. Fieldtrips will be scheduled throughout the course to give the students a variety of opportunities to shoot new subjects. Student will bring their own digital cameras to class. This course fulfills the one-year fine art requirement for graduation. Materials fee required.

ART 47033 Sculpture 1

(Grades 9-12) Prerequisite: None Students must take full year to enroll in this class (10 units)

The study and construction of three-dimensional sculptural forms—as they relate to the use of the elements and principles of design—are emphasized in this course. Materials fee required. UC, CSU, Fine Arts Graduation Requirement

ART 47040 Sculpture 2

(Grades 10-12) Prerequisite: Sculpture 1 Students must take full year to enroll in this class (10 units)

This course explores two levels of sculptural study (kinetic and fluidic), three-dimensional form and advanced studies in the areas of sculptural specialization. Material fee required. UC, CSU, Fine Arts Graduation Requirement

ART 47026 Drawing & Painting 1

(Grades 9-12) Prerequisite: None Students must take full year to enroll in this class (10 units)

Drawing and Painting 1 is designed to teach the student to explore and expand aesthetic perceptions as well as to develop skills for using visual arts media effectively. Materials fee required. UC, CSU, Fine Arts Graduation Requirement

ART 47028 Drawing & Painting 2

(Grades 10-12) Prerequisite: Drawing & Painting 1 Students must take full year to enroll in this class (10 units)

This class is designed to extend concepts learned in the first year of study. Material fee required. UC, CSU, Fine Arts Graduation Requirement

ECO 44012 Economics

(Grade 12) Prerequisite: None

This course includes a study of basic economic concepts. Macro- and microeconomic topics will be covered. UC, CSU, 1 Semester Social Science Credit

ENG 41016 Creative Writing

(Grades 9-12) Prerequisite: None

This course provides an introduction to the basic elements of story writing in a variety of genres and formats, with a secondary emphasis on reading to study the craft of other writers. UC, CSU, Elective English Credit

ENG 41075 Reader's Writing Workshop

(Grades 9-10) Prerequisite: None

This course is designed to help students develop the reading and writing skills necessary to be successful in high school academic classes. Emphasis will be placed on improvement of writing skills, including grammar and sentence structure, punctuation, paragraph and short essay development. Elective English Credit

ENG 41001 English I A-Review

Prerequisites: Below C grade in English 1A

Students will improve their skills in writing. Topics include paragraph structure, thesis statements, a variety of essay formats, using quotations and creative expression. Reading will include grade-appropriate novels, reviews, poetry and short stories. Use of literature circle groups will give students the opportunity to discuss what they are reading. Emphasis will be placed on identifying parts of literature, using the appropriate terms and then placing this information into a written analysis. A basic grammar unit will be given on an as-needed basis.

ENG 41020 English 1 B-Review

Prerequisite: Below C grade in English 1B

ENG 41002 English 2 A-Review

Prerequisite: Below C grade in English 2A

Students will review how to write various types of essays, including compare and contrast, persuasive, literature analysis, research papers and book and movie reviews – two of which will be formally written. Reading will focus on two grade-appropriate novels as well as short stories in a choice of genre that will be discussed in literature circle groups. Poetry unit will focus on basic terms and appreciation. Students will create a class anthology of favorite poems and have the opportunity to write for the anthology. A basic grammar unit will be given on an as-needed basis.

ENG 41022 English 2 B-Review

Prerequisite: Below C grade in English 2B

ENG 41003 English 3 A-Review

Prerequisite: Below C grade in English 3A

Students will review how to write various types of essays, including compare and contrast, persuasive, literature analysis, research papers and book and movie reviews – two of which will be formally written. Reading will focus on two grade-appropriate novels as well as short stories in a choice of genre that will be discussed in literature circle groups. Poetry unit will focus on basic terms and appreciation. Students will create a class anthology of favorite poems and have the opportunity to write for the anthology. A basic grammar unit will be given on an as-needed basis.

ENG 41026 English 3 B-Review

Prerequisite: Below C grade in English 3B

ENG 41062 Mythology

(Grades 10-12)

Prerequisite: English 1

Students read and understand various myths and legends created by Greek and Roman writers and storytellers and keep dialectic journals, using Standard English mechanics and syntax. *UC, CSU*

ENG 41082 Shakespeare

(Grades 9-12)

Prerequisite: None

Shakespeare is a one-semester course involving the understanding, appreciation and critical analysis of a selected number of plays by William Shakespeare. *UC, CSU*

HED 49026 Health

(Grades 9-12)

Prerequisite: None

Students are engaged in activities that foster the development of optimal physical, mental and social well-being, leading to healthful choices and lifelong good health. *Graduation Requirement*

HIS 44074 World History

(Grades 9-10)

Prerequisite: None

Students review the political, economic, social and cultural development of the modern world. The impact of history on outstanding individuals is studied as well as the multiple factors affecting continuity and change. In addition to comprehending basic information, students develop skills of research and writing necessary for success in subsequent social studies courses. *UC, CSU, 1Year Social Science Credit*

HIS 44070 World History A-Review

Prerequisite: Below C grade in World History A

HIS 44071 World History B-Review

Prerequisite: Below C grade in World History B

- HIS 44040 U.S. History**
(Grades 11) *Prerequisite: None*
Students analyze and evaluate American political, social and economic behavior during major periods in the sequence of the nation's experience. Multiple factors that affect continuity and change in historical settings are studied, in addition to the outstanding contributions of individual Americans. *UC, CSU, 1YearSocial Science Credit*
- HIS 44048 U.S. History A-Review**
Prerequisite: Below C grade in U.S. History A
- HIS 44049 U.S. History B-Review**
Prerequisite: Below C grade in U.S. History B
- MTH 42001 Algebra 1**
(Grades 9-12) *Prerequisite: Successful completion of 8th grade Algebra*
Emphasis in this yearlong course is on student development of an understanding of the symbolic language of mathematics. Algebraic concepts are introduced through the development of an understanding of algebraic expressions, mathematical sentences and equations, the real number system, and functions and relations. Algebraic skills and concepts are developed and applied in a wide variety of problem-solving situations. *UC, CSU, 1YearMath Credit*
- MTH 42003 Algebra 1 A-Review**
Prerequisite: Below C grade in Algebra 1A
- MTH 42005 Algebra 1 B-Review**
Prerequisite: Below C grade in Algebra 1B
- MTH 42012 Algebra 1B**
(Grade 9) *Prerequisite: Algebra 1A with grade of B or better*
This course is designed as the second year of a two-year sequence covering Algebra 1 content standards. Algebra 1A covers chapters 1-6 in the intermediate school course and Algebra 1B covers chapters 6-11 in the subsequent year. Emphasis in this second year course is on student development of an understanding of the symbolic language of sentences and equations, the real number system, and functions and relations. Algebraic skills and concepts are developed and applied in a wide variety of problems solving situation. *UC, CSU*
- MTH 42006 Algebra 2**
(Grades 10-12) *Prerequisite: Completion of Geometry with B or better.*
This course is designed for students who wish to expand skills in abstract thinking and to improve ability to solve algebraic problems. A functional approach is used in the development of concepts, such as exponents, logarithms and polynomials. *UC, CSU, 1YearMath Credit*
- MTH 42010 Algebra 2 A-Review**
Prerequisite: Below C grade in Algebra 2A
- MTH 42011 Algebra 2 B-Review**
Prerequisite: Below C grade in Algebra 2B
- MTH 42046 Geometry**
(Grades 10-12) *Prerequisite: Algebra 1 with a grade B or better*
In this course, students develop an understanding of the concept of proof in geometric contexts and construct formal logical arguments. Algebraic techniques are applied in the solution of problems involving geometric figures in two- and three-dimensions. *UC and CSU*
- MTH 42040 Geometry A-Review**
Prerequisite: Below C grade in Geometry A
- MTH 42043 Geometry B-Review**
Prerequisite: Below C grade in Geometry B
- MTH 42051 Pre-Calculus**
(Grades 11-12) *Prerequisite: Algebra 2 with a grade of "B" or better*
This college preparatory course is aligned with CA Content Standards, and designed to prepare the student for the study of advanced mathematics. Major emphasis is placed on the analytic approach to the subject rather numerical computation. The content of the course includes basic trigonometric functions and their development, right triangle relationships and solutions, oblique triangle relationships and solutions, fundamental identities, inverse trigonometric functions, mathematics induction, sequences and limits, analytic geometry, vectors and analysis of functions. *UC, CSU*
- MTH 42049 Pre-Calculus Review**
Prerequisite: Below C grade in Pre-Calculus

MTH 42071 Functions, Trigonometry, Stats

(Grades 11-12) *Prerequisite: Algebra 2/Algebra 2 MCR with a grade B or better*

This is a college preparatory course designed to emphasize computational skills, critical thinking, and problem solving strategies. The content of the course includes strands from the California Mathematics Content Standards of Algebra II, Trigonometry, and Probability and Statistics. Topics covered will include linear, graphing, polynomial, rational, exponential, logarithmic, and trigonometric functions; trigonometric identities; laws of sines and cosines; sequences and series; frequency and normal distributions; data descriptions; counting techniques, and probability. *UC, CSU*

POL 44024 American Government

(Grade 12) *Prerequisite: None*

The required semester course in American government is designed to give students a critical perspective on politics and government in the United States. *UC, CSU, 1 Semester Social Science Credit*

PSY 44054 Psychology

(Grades 10-12) *Prerequisite: None*

This course introduces student to the subject of psychology. The course includes an overview of major psychological approaches, theories and concepts and is designed to help students gain a better understanding of themselves and of other people. It also offers practical applications for students to help them live more satisfying and productive lives. *UC, CSU*

SCI 43004 Biology 1

(Grades 9-12) *Prerequisite: Algebra Prep or Algebra 1 recommended*

This course is designed to meet college entrance requirements as a laboratory science. The material presented in the course includes cell biology and basic chemistry, plant growth and development, genetics, evolution and natural selection, reproduction, physiology of the human body and corresponding functions, and ecology. The approach taken in this discipline reflects the needs of a student interested in a general survey class in the field of biology. Students enrolled in Biology 1 may continue into Chemistry and Physics. *UC, CSU*

SCI 43104 Biology 1 Honors

(Grades 9-12) *Prerequisites: Accelerated SCI 8 grade B or better or Algebra 1 recommended, placement in accordance with District honors policy*

Biology Honors is an academically challenging course. It covers the major themes and concepts of biology and surveys biochemistry and energy, including photosynthesis, fermentation and respiration. It also investigates the study of the cell, including the cell membrane activities, cell cycle and mitosis. The first semester concludes with the study of reproduction. The second semester includes genetics, plant and animal development, speciation, and a survey of animal systems. Laboratory investigations are an integral part of this course. Reading level for this class is high 10th grade. *UC, CSU*

SCI 43104 Biology 1 Honors/Research

(Grades 9-12) *Prerequisites: Accelerated SCI 8 grade B or better or Algebra 1 recommended, placement in accordance with District honors policy*

Biology Honors is an academically challenging course. It covers the major themes and concepts of biology and surveys biochemistry and energy, including photosynthesis, fermentation and respiration. It also investigates the study of the cell, including the cell membrane activities, cell cycle and mitosis. The first semester concludes with the study of reproduction. The second semester includes genetics, plant and animal development, speciation, and a survey of animal systems. Laboratory investigations are an integral part of this course. Incorporated into the research component of this class are numerous field trips. Besides earning 10 credits in Biology Honors, students successfully completing this class will also receive 2.5 credits in Scientific Research. Reading level for this class is high 10th grade. The cost of this class has not yet been determined. This information should be available by the opening of registration. *UC, CSU*

SCI 43014 Chemistry 1

(Grades 9-12) *Prerequisite: Geometry with a grade of C or better or concurrent enrollment in Algebra 2 Physical Science requirement*

Students in Chemistry 1 will study matter and the interactions and changes of matter through energy. *UC, CSU, 1 Year Social Science Credit*

SCI 43115 Chemistry 1 Honors

(Grades 10-12) *Prerequisite: Geometry with a grade B or better or concurrent enrollment in Algebra 2, placement in accordance with District honors policy*

This course is designed to meet college requirements as a lab science. Students enrolled in this course should have a high ability level for science, as the rigorous nature of the course is designed for those opting to take other advanced science courses. This course will cover and investigate the periodic table, atomic structure, chemical bonding, the conservation of matter and energy, stoichiometry, gases and their properties, acids, bases, solutions, chemical thermodynamics, rates of reactions, chemical equilibrium, and nuclear processes, and introduces organic and biochemistry. Experiments, mathematical calculations and models are used to attain an understanding of the concepts, principles and theories of chemistry. *UC, CSU*

SCI 43115 Chemistry 1 Honors/Research*(Grades 10-12)**Prerequisite: Geometry with a grade B or better or concurrent enrollment in Algebra 2, placement in accordance with District honors policy*

Students enrolled in this course should have a high ability level for science, as the rigorous nature of the course is designed for those opting to take other advanced science courses. This course will cover and investigate the periodic table, atomic structure, chemical bonding, the conservation of matter and energy, stoichiometry, gases and their properties, acids, bases, solutions, chemical thermodynamics, rates of reactions, chemical equilibrium, and nuclear processes, and introduces organic and biochemistry. Experiments, mathematical calculations and models are used to attain an understanding of the concepts, principles and theories of chemistry. Incorporated into the research component of this class are numerous field trips. Besides earning 10 credits in Chemistry Honors, student successfully completing this class will also receive 2.5 credits in Scientific Research. Reading level for this class is high 10th grade. The cost of this class has not yet been determined. This information should be available by the opening of registration. *UC, CSU*

SCI 43508 Scientific Research*(Grades 9-12)**Prerequisite: None*

The Science Research course is designed to provide students with an understanding of research methodology in the natural and social sciences. The course is directed to those students who wish to pursue excellence and progress in advanced areas of original research. Emphasis is on both laboratory and bibliographic research. The course encourages students to work in conjunction with research scientists and professionals within their field of study. Students undertake independent research in mathematics, life sciences, physical sciences or social sciences. Students are also taught the process of online bibliographic researching. Student commitment to long-term focused research, demonstration of initiative, perseverance and creativity are fostered. *Tuition for this class is included in tuition for Biology and Chemistry Honor/Research.*

HIS 44072 Global Cultures: Project China*(Grades 9-12)**Prerequisite: Minimum of one year of Mandarin Chinese in PVPUSD and instructor's approval*

Examination of the interchanges among members of cultures through out the World and teaches requisite research and Writing Skills, and much more.