

ADVANCED PLACEMENT COURSES

AP STUDIO ART: 2-D DESIGN PORTFLIO

118311

GRADE: 11-12

***PREREQUISITE: 4 ART COURSES
OR INSTRUCTOR PERMISSION**

1 CREDIT/2 TERMS

This portfolio is intended to address two-dimensional (2-D) design issues. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way.

The *principles* of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationships) can be articulated through the visual *elements* (line, shape, form, color, value, texture, space). They help guide artists in making decisions about how to organize an image on a picture plane in order to communicate content. Effective design is possible whether one uses representational or abstract approaches to art.

For this portfolio, students are asked to demonstrate understanding of 2-D design through any two-dimensional medium or process, including but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Video clips, DVDs, CDs and three-dimensional works may not be submitted. However, still images from videos or films are accepted. There is no preferred (or unacceptable) style or content.

Links to samples of student work in the 2-D Design portfolio can be found on AP Central at apcentral.collegeboard.org/studio2D.

Benchmarks

The student will:

- display knowledge of the “Elements of Design”
- display knowledge of the “Principles of Design”
- develop a relationship between the environment and the visual arts
- develop problem solving skills in relationship to the visual arts
- develop an appreciation of art through the use of aesthetic scanning sessions
- improve in design and composition skills by the use of aesthetics within their work
- analyze, rearrange, and synthesize visual forms to express ideas
- create a portfolio of artwork showing an area of “concentration” and an area showing “breadth”
- estimate the amount of time the creation of an art piece will take by keeping a daily log
- become aware of the relationship of art with various careers
- research art of the past and present to help in the development of his/her own style

AP STUDIO ART: 3-D DESIGN PORTFLIO

118411

GRADE: 11-12

***PREREQUISITE: 4 ART COURSES
OR INSTRUCTOR PERMISSION**

1 CREDIT/2 TERMS

This portfolio is intended to address sculptural issues. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way. In the 3-D Design Portfolio, students are asked to demonstrate their understanding of design principles as they relate to the integration of depth and space, volume and surface. The *principles* of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and occupied/unoccupied space) can be articulated through the visual *elements* (mass, volume, color/light, form, plane, line, texture).

For this portfolio, students are asked to demonstrate understanding of 3-D design through any three-dimensional approach, including, but not limited to, figurative or nonfigurative sculpture, architectural models, metal work, ceramics, glass work, installation, performance, assemblage and 3-D fabric/fiber arts. There is no preferred (or unacceptable) style or content.

Links to samples of student work in the 3-D Design portfolio can be found on AP Central at apcentral.collegeboard.org/studio3D.

Benchmarks

The student will:

- display knowledge of the “Elements of Design”
- display knowledge of the “Principles of Design”
- develop a relationship between the environment and the visual arts
- develop problem solving skills in relationship to the visual arts
- develop an appreciation of art through the use of aesthetic scanning sessions
- improve in design and composition skills by the use of aesthetics within their work
- analyze, rearrange, and synthesize visual forms to express ideas
- create a portfolio of artwork showing an area of “concentration” and an area showing “breadth”
- estimate the amount of time the creation of an art piece will take by keeping a daily log
- become aware of the relationship of art with various careers
- research art of the past and present to help in the development of his/her own style

AP STUDIO ART: DRAWING PORTFOLIO**118211****GRADE: 11-12*****PREREQUISITE: 4 ART COURSES
OR INSTRUCTOR PERMISSION****1 CREDIT/2 TERMS**

The Drawing Portfolio is intended to address a very broad interpretation of drawing issues and media. Line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth, and mark-making are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract, observational, and invented works may demonstrate drawing competence. The range of marks used to make drawings, the arrangement of those marks, and the materials used to make the marks are endless. Any work submitted in the Drawing Portfolio that incorporates digital or photographic processes must address drawing issues such as those listed previously. There is no preferred (or unacceptable) style or content.

Links to samples of student work in the 3-D Design portfolio can be found on AP Central at apcentral.collegeboard.org/studiodrawing.

Benchmarks

The student will:

- display knowledge of the “Elements of Design”
- display knowledge of the “Principles of Design”
- develop a relationship between the environment and the visual arts
- develop problem solving skills in relationship to the visual arts
- develop an appreciation of art through the use of aesthetic scanning sessions
- improve in design and composition skills by the use of aesthetics within their work
- analyze, rearrange, and synthesize visual forms to express ideas
- create a portfolio of artwork showing an area of “concentration” and an area showing “breadth”
- estimate the amount of time the creation of an art piece will take by keeping a daily log
- become aware of the relationship of art with various careers
- research art of the past and present to help in the development of his/her own style

AP STUDIO ART EXTENSION**118213****GRADE: 11-12*****PREREQUISITE: AP STUDIO ART****.5 CREDIT/1 TERM**

Advanced Placement Studio Art Extension offers the student an additional term of A.P. Studio Art. This term can be used to continue working in art and is recommended for those students who plan to submit a portfolio to the College Board for review. It will allow the student class time to finish portfolio requirements, take digital images of their work, complete the written portion of the portfolio, and complete the digital submission process.

Benchmarks

The student will:

- display knowledge of the “Elements of Design”
- display knowledge of the “Principles of Design”
- develop a relationship between the environment and the visual arts
- develop problem solving skills in relationship to the visual arts
- develop an appreciation of art through the use of aesthetic scanning sessions
- improve in design and composition skills by the use of aesthetics within their work
- analyze, rearrange, and synthesize visual forms to express ideas
- create a portfolio of artwork showing an area of “concentration” and an area showing “breadth”
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Advanced Placement English Literature and Composition is a senior-level honors course providing a college-equivalent literature and writing curriculum for motivated students with a solid background in English skills. The two term class allows competent students to prepare for college with a challenging course which emphasizes interpretative, evaluative, judgmental, and communicative skills.

Students who elect to take the test in Advanced Placement English Literature and Composition, offered in May, may directly qualify for college credit.

Benchmarks

The students will:

- read a wide background of mature and thoughtful literature in the major literary genres.
- take an active part in a forum discussing and reflecting on the values of human society as presented in literature.
- strengthen and expand skills in considering complex, controversial, and emotion-laden ideas.
- develop critical writing, speaking, and reading skills.
- become familiar with a variety of professional and nonprofessional models which illustrate high standards of writing excellence, particularly with respect to literary criticism and review.
- strengthen and expand skills in considering, integrating and presenting complex ideas in a series of effective written essays.
- develop an awareness of the criteria used in a specific evaluation.
- prepare for college level testing and evaluation, including college placement tests and the tests for Advanced Placement English, through specific training in test-taking and the use of college level testing procedures.
- reduce the anxiety generally experienced by students when asked to analyze difficult and complex course material.
- develop individual area of knowledge to be shared through organized presentation.
- actively participate in group projects and class forums.

AP STATISTICS N

206321

GRADE: 10-12
1 CREDIT/2 TERMS

*PREREQUISITE: PRE-CALCULUS

This course will be an introductory, non-calculus based course in statistics built around four main topics.

Benchmarks

The students will:

- I. Exploring Data: Observing Patterns and Departures from Patterns
 - A. Interpreting graphical displays of distributions of univariate data
 - B. Summarizing distributions of univariate data
 - C. Comparing distributions of univariate data
 - D. Exploring bivariate data
 - E. Exploring categorical data
- II. Planning a Study: Deciding What and How to Measure
 - A. Overviews of methods of data collection
 - B. Planning and conducting surveys
 - C. Planning and conducting experiments
 - D. Generalizability of results from observational studies, experimental studies and surveys
- III. Anticipating Patterns: Producing Models Using Probability Theory and Simulation
 - A. Probability as relative frequency
 - B. Combining independent random variables
 - C. The normal distribution
 - D. Sampling distributions
- IV. Statistical Inference: Confirming Models
 - A. Confidence intervals
 - B. Tests of significance
 - C. Special cases of normally distributed data

AP CALCULUS AB N**205811****GRADES: 11-12*****PREREQUISITE: HONORS PRE-CALCULUS****1 CREDIT/2 TERMS**

Honors Advanced Placement Calculus AB will be offered during the fall semester each year. The course consists of two terms of work in calculus and related topics comparable to courses in colleges and universities. Topics include limits and continuity of functions, derivatives and integrals. Graphing calculators will be extensively used throughout the study of Calculus, both for the ability to graphically determine information about a function and for the numeric techniques for finding approximate results, which will also be studied. Two forms of an Advanced Placement Exam in late spring offer the students the opportunity to earn up to two semesters of college credit at most colleges and universities. This course prepares students for the Calculus AB form. For the Calculus BC form, students should plan to take this course followed by Honors AP Calculus BC.

Benchmarks

The students will:

- prove certain limits using the precise delta-epsilon definition of a limit of a function.
- find limits by rationalizing the numerator and using L'Hospital's Rule.
- compute the derivatives of sums, differences, products and quotients of functions along with using the Chain Rule.
- compute derivatives by implicit differentiation and use this to solve related rate problems.
- determine local and absolute maximum and minimum values of functions.
- determine concavity and points of inflection of functions.
- solve applied maximum and minimum problems.
- have a working knowledge of the Intermediate Value Theorem, Mean Value Theorem and The Fundamental Theorem of Calculus.
- evaluate an integral using a variety of techniques.
- find the area between two curves, the volumes of solids of revolution, and the average value of a function.
- solve certain differential equations, including those applicable to exponential growth or decay.

AP CALCULUS BC N**205911****GRADES: 11-12*****PREREQUISITE: AP CALCULUS AB****.5 CREDIT/1 TERM**

Honors Advanced Placement Calculus BC will be offered during the third term each year. The course continues the study of calculus begun in Honors Advanced Placement Calculus AB. Topics extend the work with limits, derivatives and integrals to functions written in polar and vector forms and functions represented parametrically. Students completing this course will be able to choose either the Calculus AB or the Calculus BC forms of the Advanced Placement tests to earn college credit at most colleges and universities.

Benchmarks

The students will:

- compute area between curves in rectangular as well as in polar coordinates.
- compute the length of a curve, whether the curve is represented parametrically or not.
- compute the surface area of a solid of revolution, whether the curves are represented parametrically or not.
- determine the convergence or divergence of an infinite series, using a variety of techniques.
- determine the interval of convergence of a power series.
- use vector notation and analyze vector functions.

AP FRENCH N**120611****GRADE: 11-12*****PREREQUISITE: FRENCH IV
FRENCH V STRONGLY RECOMMENDED****1 CREDIT/2 TERMS**

This course develops language skills (reading, writing, speaking, and listening) that can be used in various activities and disciplines. Course content reflects intellectual interests shared by the students and teachers. Materials include audio and video recordings, films, newspapers, and magazines. This course is intended for students preparing for any placement test, not just the A.P. test. The teacher and students will use French exclusively in class.

Benchmarks

The students will:

- understand the spoken target language in various contexts.
- develop a vocabulary for reading newspaper and magazine articles, literary texts, and other nontechnical writings without dependence on a dictionary.
- express themselves in the target language both in speech and in writing, coherently, resourcefully, and with reasonable fluency and accuracy.
- self-monitor and adjust language production.

- demonstrates an understanding of the features of French and Francophone culture communities (e.g., geographic, historical, artistic, social, and political).

AP GERMAN **N**

121111

GRADE: 11-12

*PREREQUISITE: GERMAN IV

1 CREDIT/2 TERMS

This course develops language skills (reading, writing, speaking, and listening) that can be used in various activities and disciplines. Course content reflects intellectual interests shared by the students and teachers. Materials include audio and video recordings, films, and news articles. This course is intended for students preparing for any placement test, not just the A.P. test. The teacher and students will use German exclusively in class.

Benchmarks

The students will:

- understand the spoken target language in various contexts.
- develop a vocabulary for reading newspaper and magazine articles, literary texts, and other nontechnical writings without dependence on a dictionary.
- express themselves in the target language both in speech and in writing, coherently, resourcefully, and with reasonable fluency and accuracy.
- self-monitor and adjust language production.
- demonstrates an understanding of the features of German and German-speaking culture communities (e.g., geographic, historical, artistic, social, and political).

AP SPANISH **N**

120211

GRADE: 11-12

*PREREQUISITE: SPANISH IV
SPANISH V STRONGLY RECOMMENDED

1 CREDIT/2 TERMS

AP Spanish is comparable to an advanced level (5th- and 6th-semester or the equivalent) college Spanish language course. Emphasizing the use of Spanish for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition. The teacher and students will use Spanish exclusively in class.

Benchmarks:

The students will:

- understand Spanish spoken by native speakers at a natural pace, with a variety of regional pronunciations, in both informal (interpersonal) and formal (presentational) contexts.
- develop an active vocabulary and understanding of grammar sufficient for reading newspaper and magazine articles, contemporary literature, and other non-technical writings (websites, letters and emails, advertisements, signs and instructions) in Spanish without dependence on a dictionary.
- express themselves by describing, narrating, inquiring, and developing arguments in Spanish, both orally and in writing, with reasonable fluency, using different strategies for different audiences and communicative contexts.

In this course, special emphasis is placed on the use of authentic source materials and the integration of language skills. Students will receive extensive training in combining listening, reading, and speaking (or listening, reading, and writing) skills in order to demonstrate understanding of authentic Spanish-language source materials. <https://apstudent.collegeboard.org/apcourse/ap-spanish-language>

AP MUSIC THEORY

114111

GRADES: 11-12

*PREREQUISITE: VOCAL OR INSTRUMENTAL
PERFORMANCE COURSE (2ND SEMESTER)

1 CREDIT/2 TERMS

AP Music Theory is designed to develop musical skills that will lead to a thorough understanding of music composition and theory. Classroom activities involve developing proficiency in fundamentals of music that will then be applied to analysis, harmonization, dictation and composition. Students are prepared to take the AP Music Theory Exam when they have completed the course. Students planning to major or minor in music may be able to enroll in an advanced music theory course, depending on individual colleges' AP policies

Benchmarks:

Upon completion of this course, students will be able to:

- Define basic musical terms and theoretical concepts

- Construct major, minor, chromatic, whole tone and modal scales.
- Demonstrate the ability to construct and analyze major, minor, augmented and diminished intervals and triads.
- Recognize, and sing or play scales, intervals, triads, rhythms and melodies.
- Sing simple conjunct and disjunct diatonic melodies at sight.
- Construct compositions in four part texture.
- Analyze harmonic structure utilizing Roman numerals and figured bass.
- Identify basic form and cadences.
- Describe historical implications and conventions related to music composition.
- Dictate major/minor melodic lines and harmonic progressions.
- Compose a bass line for a given melody.
- Realization of a figured bass and Roman numeral chord progression.

Although the curriculum described in the AP Music Theory Course Description is followed, students are also introduced to other valuable information which is not covered. Other topics include: acoustics, overtone series, transposition, composition and arranging. In addition, the application of various music notation and recording software will also be employed.

AP BIOLOGY N

171511

***PREREQUISITE:**

**BIOLOGY & CHEMISTRY
OR TEACHER RECOMMENDATION**

1 CREDIT/2 TERMS

This course will prepare students to successfully pass the Advanced Placement Biology exam for college credit. It is designed to be the equivalent of a college introductory biology course usually taken by biology majors. This course includes 3 general areas of interest including Molecules and Cells, Heredity and Evolution and Populations and Organisms. The course also includes 12 required labs that will be completed in preparation for the AP exam.

Benchmarks

The students will:

- utilize the following 8 major themes in biology to explain and apply the following specific processes and functions:
- | | | |
|-----------------------------------|---------------------------------------|-----------------|
| Science as Process | Evolution | Energy Transfer |
| Continuity and Change | Relationship of Structure to function | Regulation |
| Interdependence in Nature Science | Technology and Society | |

In addition to the above standards, AP Biology includes the Inquiry Standards listed at the beginning of the Science section.

AP CHEMISTRY N

172511

***PREREQUISITE:**

HONORS CHEMISTRY

1 CREDIT/2 TERMS

This is a college level course that expands topics covered in honors chemistry as well as introduces new areas of study such as electrochemistry and organic chemistry. It provides students a wide opportunity to develop and improve their investigative skills. Basic concepts of chemistry are reviewed, and then developed into increasingly sophisticated ideas that are useful in other physical, biological, and applied sciences such as medicine, engineering, agriculture, and consumer sciences. Students completing AP Chemistry may elect to take the National CEEB Advanced Placement Exam to earn college credit.

Benchmarks

The students will:

- understand and apply knowledge of the structure of atoms
- understand and apply knowledge of the structure and properties of matter.
- understand and apply knowledge of chemical reactions.
- understands and applies knowledge of interactions of energy and matter.
- understand and apply knowledge of conservation of energy and increase in disorder.
- demonstrate a sound understanding of technology concepts, systems and operations.
- apply digital tools to gather, evaluate, and use information.
- use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

In addition to the above standards, AP Chemistry includes the Inquiry Standards listed at the beginning of the Science section.

AP PHYSICS I N**173621****GRADE: 10-12*****PREREQUISITE: ALGEBRA II (CO-REQUISITE)
GEOMETRY****1 CREDIT/2 TERM**

AP® Physics 1 is the first course in a two course sequence for AP Physics. AP® Physics 1: Algebra-based and AP Physics 2: Algebra-based is a two-year sequence equivalent to the first and second semesters of a typical introductory, algebra-based, college physics course. This two year sequence gives teachers the time needed to foster greater depth of conceptual understanding through the use of student-centered, inquiry based instructional practices. There will be an AP exam available at the end of this course to help students earn college credit. Each of the two courses in the sequence will have their own individual AP exams.

Benchmarks**Major Concepts:**

- Objects and systems have properties such as mass and charge. Systems may have internal structure.
- Fields existing in space can be used to explain interactions.
- The interactions of an object with other objects can be described by forces.
- Interactions between systems can result in changes in those systems.
- Changes that occur as a result of interactions are constrained by conservation laws.
- Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the description of other phenomena.

In addition to the above standards, AP Physics I includes the Inquiry Standards listed at the beginning of this section.

AP PHYSICS II N**173623****GRADE: 10-12*****PREREQUISITE: AP PHYSICS I****1 CREDIT/2 TERM****** This course will be offered on an every-other year basis on even years beginning August 2014.**

AP® Physics 2 is the second course in a two course sequence for AP Physics. AP® Physics 1: Algebra-based and AP Physics 2: Algebra-based is a two-year sequence equivalent to the first and second semesters of a typical introductory, algebra-based, college physics course. This two year sequence gives teachers the time needed to foster greater depth of conceptual understanding through the use of student-centered, inquiry based instructional practices. This course will cover many of the topics from the first in the sequence, adding depth and additional concepts throughout the semester. There will be an additional AP exam available at the end of this course to help students earn college credit.

Benchmarks**Major Concepts:**

- Objects and systems have properties such as mass and charge. Systems may have internal structure.
- Fields existing in space can be used to explain interactions.
- The interactions of an object with other objects can be described by forces.
- Interactions between systems can result in changes in those systems.
- Changes that occur as a result of interactions are constrained by conservation laws.
- Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the description of other phenomena.

In addition to the above standards, AP Physics II includes the Inquiry Standards listed at the beginning of this section.

AP AMERICAN GOVERNMENT N**273611****GRADES: 11-12*****PREREQUISITES: AMERICAN HISTORY
AND WORLD CONCEPT COURSE****1 CREDIT/2 TERM**

AP American Government culminates with the opportunity for students to take the College Board test for possible college credit. Students will be responsible for an extensive research project beyond the content itself. Student-designed simulations and role-playing are important elements of the course.

Major content areas are: constitutional underpinnings of democracy, political beliefs and behaviors of individuals, political parties and interest groups, mechanisms that facilitate the communication of interests and preferences by like-minded citizens, the Congress, the presidency, the bureaucracy, and the federal courts, institutions and policy processes, and civil liberties and civil rights.

Benchmarks

The students will:

- define key words as they relate to American Government.
- recognize and describe key concepts in American Government.
- understand and accept the responsibilities and privileges to being an American citizen.
- recognize and appreciate the different forms of world government found today and in the past.
- identify possible career choices in the field of civil service and government.
- complete a voter registration form and be familiar with use of current methods of casting ballots.
- analyze the concepts of American Government in the context of the current political scene.
- convey an understanding of key concepts in thorough, concise responses to essay questions.
- score a 3 or above on the Advanced Placement test.

AP ECONOMICS **N**

274511

GRADES: 11-12

*PREREQUISITE: NONE

1 CREDIT/2 TERMS

The first section of this course will study microeconomics and the second section will study macroeconomics. Microeconomics will give students an understanding of the principles of economics that apply to the functions of individual decision-makers within the larger economic system. Macroeconomics gives students an understanding of the principles of economics that apply to the system as a whole.

Benchmarks

The students will:

- explain the basic concepts of microeconomics.
- describe the nature and functions of product markets.
- describe the nature and functions of factor markets.
- state the arguments for and against government intervention in an otherwise competitive market.
- explain the basic concepts of macroeconomics.
- identify the components of gross income.
- define national income and aggregate price level.
- describe how the combination of monetary and fiscal policies used in addressing problems of inflation and unemployment has an effect on domestic growth and on international factors. Also describe how the reverse is true.
- utilize reference materials to locate, process, and communicate information.
- define key words as they relate to Economics, thus extending one's vocabulary.
- show cause and effect relationships by drawing logical inferences from the factual information.
- score an evaluation of 3 or higher on the College Board Exam.
- use the Internet, Electronic Library, and other computer tools towards understanding investment in the stock market and different economies.
- use word processing programs when creating reports.

AP EUROPEAN HISTORY **N**

271011

GRADES: 10-12

*PREREQUISITE: TEACHER RECOMMENDATION

1 CREDIT/2 TERMS

Honors AP European History is an accelerated social studies course with emphasis on the history of European Politics, Culture and Thought from the Renaissance (1350) to the world of today. A basic Western Civilization text will be used and students will be expected to pursue various additional projects of concentrated study as components of the course. An opportunity to take the College Board Exam for possible college credit will be extended at the close of the course. There is a fee for this examination.

It is essential for those who anticipate taking the College Board Exam in European History to also take the AP European History Concepts course.

Benchmarks

The students will:

- identify the historical eras delineating European History from the Renaissance (1350) to today.
- recognize European diversity of lands and peoples in order to internalize multicultural and non-sexist concepts and their impact on the course of history.
- utilize reference materials to locate, process, and communicate concrete or abstract information.
- identify and define key terms relating to the course.
- show the importance of technology in the development and preservation of the world.
- describe human and natural resource distribution on the European continent and project the impact of this distribution in the future.
- show cause and effect relationships by drawing logical inferences from factual information.
- score an evaluation of 3 on the College Board Exam.

AP EUROPEAN HISTORY CONCEPTS N
***PREREQUISITE: AP EUROPEAN HISTORY**

271013

GRADES: 10-12
.5 CREDIT/1 TERM

This course completes the study begun in A.P. European History and is essential for those who anticipate taking the College Board Exam in European History. The course consists of a close study of Twentieth Century events in the European World. Also included is a systematic review of all material of AP European History, Renaissance to the Vietnam War. Practice is provided in writing essays based on questions and expectations of past College Board examinations. Emphasis is placed on self, peer, and instructor evaluation designed to improve individual test-taking techniques.

Benchmarks

The students will:

- identify the historical eras delineating European History from the Renaissance (1350) to today.
- recognize European diversity of lands and peoples in order to internalize multicultural and non-sexist concepts and their impact on the course of history.
- utilize reference materials to locate, process, and communicate concrete or abstract information.
- identify and define key terms relating to the course.
- show the importance of technology in the development and preservation of the world.
- describe human and natural resource distribution on the European continent and project the impact of this distribution in the future.
- show cause and effect relationships by drawing logical inferences from the factual information.
- score an evaluation of 3 on the College Board Exam.

AP PSYCHOLOGY N
***PREREQUISITE: NONE**

277341

GRADES: 11-12
1 CREDIT/2 TERMS

Students will be introduced to the systematic and scientific study of behavior and mental processes. In addition, students will be exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within psychology. They will also learn about the ethics and methods psychologists use in their science and practice. Topics include history and approaches, research methods, biological bases of behavior, sensation and perception, states of consciousness, learning and memory, cognition, motivation and emotion, developmental psychology, abnormal psychology, treatment of psychological disorders, and social psychology. Specific course topics for each unit are outlined in the AP Psychology Course Description - published by College Entrance Examination Board (apcentral.collegeboard.com). This course will prepare the student for the Advanced Placement Psychology Exam and the potential to earn college credit.

Benchmarks

The students will:

- understand the basic principles and appropriate uses of psychological research, including observational and experimental methods. They will be able to devise simple research projects, interpret and generalize from results, and evaluate the validity of research reports.
- understand the major core concepts and theories of psychology. They will be able to define and apply key terms to real world situations and their own lives, recognizing and applying psychological principles when encountered in everyday situations.
- develop critical thinking skills and become aware of the danger of blindly accepting or rejecting arguments without careful, objective evaluation.
- improve their reading, writing, note-taking, and discussion skills.
- understand about psychology as a profession, including an awareness of the educational requirements that must be met to pursue such careers. They will understand the ethical standards that govern the work of psychologists.
- understand psychology's historical development as a science with roots in philosophy and biology.
- understand influences on individual and group behavior and group decision making.
- understand the influences of heredity and environment on behavior.
- understand the process of how humans develop, learn, perceive, think, feel, and adapt to their environment, and how they internalize their culture.
- understand how personality and agents of socialization impact the individual.
- understand how social factors affect individual behaviors.

AP HUMAN GEOGRAPHY N
***PREREQUISITE: TEACHER RECOMMENDATION**

270611

GRADES: 9-12
1 CREDIT/2 TERMS

AP Human Geography is an accelerated social studies course that introduces students to the patterns and processes that have shaped how humans use and alter the Earth's surface. Methods and tools used by geographers are introduced. Emphasis is placed on map and landscape analysis and

evaluating how human activity influences regional development and the environment. AP Human Geography culminates with the opportunity for students to take the College Board exam for potential college credit.

Benchmarks

The students will:

- understand and employ key geographical skills to use and think about maps and spatial data.
- understanding and interpret at different scales (local, regional, national or global) the relationships among patterns and processes of change.
- understand and define regions and evaluate the regionalization process.
- understand and analyze changing interconnections among places.
- understand how and why change occurs and evaluate their place in an ever-changing global environment.

AP COMPUTER SCIENCE

021811

GRADES: 10-12

***PREREQUISITE: CODING AND GAMING**

1 CREDIT/2 TERM

General Elective

The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.

Benchmarks

The students will:

- design, implement, and analyze solutions to problems.
- use and implement commonly used algorithms.
- use standard data structures.
- develop and select appropriate algorithms and data structures to solve new problems.
- write solutions fluently in an object-oriented paradigm.
- write, run, test, and debug solutions in the Java programming language, utilizing standard Java library classes and interfaces from the AP Java subset.
- read and understand programs consisting of several classes and interacting objects.
- read and understand a description of the design and development process leading to such a program. (Examples of such solutions can be found in the AP Computer Science Labs.)
- understand the ethical and social implications of computer use.