

UPPER SCHOOL COURSES. 2011 / 2012

ENGLISH

ENGLISH 9

This course aims to raise students' reading and writing skills to the next level. By focusing on the six traits of effective writers, students will understand how good writing is accomplished. The year is organized around thematic units; selections from the following texts illustrate and explore these themes: *House on Mango Street* by Sandra Cisneros; *Macbeth* by William Shakespeare; *Of Mice and Men* by John Steinbeck; *The Curious Incident of the Dog in the Night* by Michael Haddon; *Lord of the Flies* by William Golding; *Night* by Elie Wiesel and other Holocaust literature. Students are expected to select their own books for independent reading requirements.

HONORS ENGLISH 9

This course challenges students to develop their writing and analytical skills and invites them to indulge their love of reading. The year is organized around the same thematic units as the regular English 9 class but will explore additional texts in greater depth and detail, including such texts as: *Life of Pi* by Yan Maarten; *Oedipus Rex* and *Antigone* by Sophocles. Students will be encouraged to respond to literature with thoughtful analysis and to make connections between what they read and their own lives. Entry into this class is determined by teacher recommendations and writing samples and requires departmental approval.

DIGITAL LITERACY

This class helps students become more information literate by teaching 21st century learning skills that are essential in today's technology-rich environment. Students broaden their understanding of the impact of technology on their day-to-day **lives** and learn how to apply their knowledge to enhance communications, problem-solving, and organizational skills. Students also explore the ethical use of the Internet. This course includes multi-disciplinary assignments, online content management tools, collaboration and social networking sites, and optimized use of digital media. The course is offered each trimester and is required of all ninth graders.

ENGLISH 10

This course is an exploration of texts from around the world—past and present. Works studied may include *Romeo and Juliet* by Shakespeare and *1984* by George Orwell, as well as other works selected by the teacher. Students hone their abilities to write a five-paragraph essay, increasing their sophistication in persuasive, analytical, and narrative writings.

HONORS ENGLISH 10

This survey course takes students from Anglo-Saxon times to the twentieth century so that they may understand and appreciate the breadth and variety of British Literature. Key texts are explored for each literary period and usually include: *Beowulf*; *Canterbury Tales*; *Romeo and Juliet*; *Metaphysical Poetry*; *The Romantic Poets*; *Wuthering Heights*; *Great Expectations*; *The Importance of Being Ernest*, *World War I Poetry*, and *The Caretaker*. Students learn to further hone their literary analysis skills as well as exploring their own creative and personal response to what they read. Entry into this class is based on teacher recommendation and requires departmental approval.

ENGLISH 11

Students in this course take a close look at the major themes that run through American Literature: democracy, race, gender, wealth, and innovation. Each teacher specializes in his or her own authors, novels, poems, short stories and plays while bringing out these themes and drawing connections between works and our own lives.

Benjamin Franklin, Walt Whitman, Mark Twain, Willa Cather, F. Scott Fitzgerald, and Zora Neale Hurston are a few of the all-stars in the line-up.

HONORS ENGLISH 11

This course takes a more reading- and writing-intensive approach to American literature than does English 11. Texts may include: Song of Solomon, The Adventures of Huckleberry Finn, The Great Gatsby, The Crucible, The Sound and the Fury, and Six American Poets. Entry into this class is based on teacher recommendation and requires departmental approval.

ADVANCED PLACEMENT ENGLISH

This year-long course emphasizes in-depth critical reading and intensive analytical writing about literature in preparation for the AP exam in the spring. Works may include: A Portrait of the Artist as a Young Man, The Theban Plays, The Handmaid's Tale, Hamlet, Crime and Punishment, Songs of Innocence and Experience, Waiting for Godot as well as selections from the poetry text Sound and Sense. Entry into this class is based on teacher recommendation and requires departmental approval.

ENGLISH 12

In this theme-based, year-long course, seniors focus on college essays and Cormac McCarthy's The Road as part of a "journey" theme appropriate to seniors in the fall. Other themes such as "change" or "the future" are addressed in novels, plays, films, songs, and other works as selected by the teacher, with personal writings offering opportunities for self-reflection.

ENGLISH ELECTIVES

Students in grades 10, 11, and 12 may register for one or more of these electives. Please note that these electives cannot substitute for the required courses listed above.

PLAYWRITING I

Through a series of scene writing exercises, students are introduced to the concepts of dramatic structure and dialogue for the stage. Each student completes a one-act play by the end of the term. This course is offered in the fall and winter trimesters.

PLAYWRITING II

While continuing to develop the skills they were introduced to in Playwriting I, students complete a full-length play. This course is offered in the spring trimester.

MATHEMATICS

ALGEBRA 1

This is a fundamental course covering properties of number systems, factoring and its applications, simplifying and combining fractions, functions and graphs, algebra in a plane, and equations with real number solutions.

HONORS ALGEBRA 1

This course stresses the ability to use algebra with skill and understanding. It provides practice in applying the basic concepts and seeks to hone problem solving skills. In addition to approaching the concepts of Algebra 1 in a more sophisticated way, systems of equations and trigonometry are emphasized.

GEOMETRY

This course covers the traditional topics of Euclidean plane geometry—elements of geometry, angle relationships, parallel lines and planes, similar geometric figures and their applications, constructions, coordinate geometry (methods and proofs), area, and volume. Algebraic skills are reviewed and strengthened.

HONORS GEOMETRY

This course in Euclidean plane geometry covers space and coordinate geometry in detail. A major objective is to provide students an opportunity to think critically and creatively while writing formal proofs. Within this structure algebra skills are strengthened and reviewed. Topics include inductive and deductive reasoning, logic, volumes of complex solids, and those topics listed under Euclidean Plane Geometry.

ALGEBRA 2

Algebra 2 continues the study of algebra by introducing quadratic functions, linear and quadratic equations, conic sections, sequences, and series.

HONORS ALGEBRA 2

This course covers the same algebra topics as the standard section but with greater sophistication and the addition of trigonometry. Topics in trigonometry include functions, circular functions, graph identities, and solutions of triangles with practical and physics applications, sequences, series, and exponential and logarithmic functions.

PRECALCULUS

Precalculus is recommended for students who wish to continue their studies in mathematics but need to proceed at a pace slower than that of the honors section. It includes a review and extension of geometry, trigonometry, conic sections, and elementary functions: polynomial, rational, trigonometric, exponential, and logarithmic.

HONORS PRECALCULUS

This course prepares students for a formal college-level calculus course. Necessary skills in algebra and trigonometry are developed and expanded. Half the year is spent in studying elementary functions—polynomial, rational, trigonometric, exponential, and logarithmic. Other topics include sequences, series, the limits of a function, conic sections, graphs in three-space, and an introduction to calculus (derivatives, area as a limit, integrals). Entry into this class is based on teacher recommendation and requires departmental approval.

CALCULUS

This course is designed for students thinking of majoring in business, economics or other social sciences. It will introduce the basic concepts of calculus such as limits, continuity, differentiation, integration, maximization, minimization, and partial derivatives with an emphasis on applications to the social sciences, business, and economics. A graphing calculator, TI-83/84 or equivalent, is required.

ADVANCED PLACEMENT CALCULUS

These two AP courses cover the topics of first (AB) and second (BC) semester college level courses in differential and integral calculus, functions, and analytical geometry. Entry into this class is based on teacher recommendation and requires departmental approval.

COLLEGE MATHMEMATICS

This course provides seniors with an opportunity to reinforce, or relearn, pertinent topics in Algebra and Trigonometry in preparation for successful completion of a core college algebra course. This is NOT a substitute for Algebra 2 or PreCalculus. This course is for seniors only; Algebra 2 is a prerequisite.

INTRODUCTION TO COMPUTER SCIENCE

This course introduces students to computer programming using the high level language Java. Specifics of Java are studied including: syntax, writing, debugging, and compiling students' programs. Logic, the binary and hexadecimal number systems, and essential components of computers are discussed.

ADVANCED PLACEMENT COMPUTER SCIENCE

This course is for the student who is seriously interested in a rigorous study of computer science. Students should be familiar with the syntax and structure of the Java language and object-oriented programming methodology and philosophy. The content of the course is drawn from the College Board's AP Computer syllabus, generally consisting of the formal study of data structures such as stacks, queues, and binary trees, and sorting algorithms for searching, sorting, and hashing. Students write their own programs and critique those of others. Entry into this class requires permission of the instructor.

COMPUTER-ASSISTED DESIGN

This course teaches mechanical and architectural drawing using the TurboCad software package. In the first half of the course, the focus is on the traditional two-dimensional, three-view orthographic projection. The second half of the course is devoted to isometric three-dimensional drawing. The TurboCad software makes the drawing of two-dimensional orthographic and three-dimensional isometric shapes infinitely easier than the old pencil, triangle, and ruler method. The architectural drawing section includes exterior and blue print views.

HISTORY

HISTORY 9: NON-WESTERN HISTORY

Ninth grade history is designed to develop a good understanding of the geography, culture, history, economies and present challenges facing the Middle East, Africa, Asia, Australasia, and South America. Skills that are emphasized throughout the year include reading comprehension, writing, note taking, quiz and test taking, critical thinking, and research. Reading is required almost each night from a variety of sources that range from primary sources to textbooks. Understanding themes and being able to pull out key information from the reading is a skill that students learn and practice. Students develop an accurate note-taking system from lectures with the help of board work as well as techniques for study prior to unit exams. Students also learn how to take a concept and apply it back to the historical context with heavy emphasis on writing, as this will allow them to be more successful in future courses.

HISTORY 9: HONORS NON-WESTERN HISTORY

This course explores the same regions as the regular course, but it is much more reading- and writing-intensive. The ability to read, write, and work independently are primary expectations. Entry into this class is based on teacher recommendation and requires departmental approval.

HISTORY 10: WESTERN CIVILIZATIONS

In this class, students study the origins of western thought and the influences that the past has had on modern social customs, political traditions, and cultures. Beginning with the Greeks and the Romans, students explore the effects of Christianity on Europe, the middle ages and the rise of the feudal system, the Renaissance and the Reformation, the age of Revolutions, and the growth of industrialism, imperialism, and the new political ideologies that led to two world wars.

HISTORY 10: HONORS WESTERN CIVILIZATIONS

Similar to the regular sections, students examine the rise of Western Civilization from the Age of the Greeks and the Romans to World Wars I and II. Students are required to read from the textbook and primary documentation throughout the year. Students are expected to analyze and critique these documents for deeper historical relevance. Reading and writing assignments are more extensive and students are introduced to

Document Based Questions. Students who are successful in his class are recommended for AP American History.

HISTORY 11: AMERICAN HISTORY

This class is a survey course designed to introduce students to the basic elements and themes of United States history. During the fall trimester, students view the rise of colonial America, the Revolutionary War, the Constitutional period, the era of Jeffersonian Republicans, and the Age of Jackson. During the winter trimester, students study western expansion, the Civil War era, Industrialization, and Imperialism. The spring trimester is dedicated to the study of the twentieth century and includes both World Wars, the Great Depression, the Cold War and domestic issues of the 1950's, 60's, and 70's. This course is required for graduation.

HISTORY 11: ADVANCED PLACEMENT AMERICAN HISTORY

This class is designed to help students achieve college credit in the study of American History, and enrollment in it must be approved by the Head of the History Department. Students are expected to complete work over the summer vacation and during breaks throughout the academic year. The course demands that students write constantly, with bi-weekly unit exams, Document Based Questions, abstracts, and graded oral discussions. The class covers American History from 1600 to 1990, and students are expected to take the Advanced Placement Exam in early May.

SENIOR HISTORY

Please note that a full year of history is required for all seniors. This requirement can be fulfilled by a year of A.P. European History, a year of Economics, or a year-long course in Modern Asian Studies or Psychology. These courses are not open to students in grades 9–11.

ADVANCED PLACEMENT EUROPEAN HISTORY

This course is a chronological survey of European History from the Renaissance to World War II. Particular emphasis is placed on the emergence of the nation-state, competition among the European states, the emergence of political parties, and the rise of modern ideologies. Students are expected to read and review a serious historical work approximately every two weeks. Admission to this course is by departmental permission only.

ECONOMICS

This year-long course provides an overview of both micro and macro concepts. The course of study attempts to answer questions that interest professional economists today: Why do some businesses succeed while others fail? What causes poverty? How does the American economy compare to the rest of the world? Where do our taxes go? Particular attention is paid to how the economy works in the real world. The overall goals of the course are both academic and practical, allowing students to gain the economic tools that will be useful for them in their college years.

AMERICA'S ROLE IN MODERN ASIAN AFFAIRS

Despite the United States' brief history, America has had a profound effect on the Asian nations of the world. This course examines both the Asian cultures of Vietnam and China, prior to American interventions there, American expansion into Asia during the nineteenth and twentieth centuries, and the resulting conflicts that emerged. Students are asked to read from historical texts as well as from novels authored by various soldiers who use their personal experiences and perspectives to describe conflicts. The class assignments are accompanied by movies and actual footage of the World War II and the Vietnamese conflict.

TOPICS IN PSYCHOLOGY

Beginning with the study of the brain and how it creates our minds and affects our behavior, this course explores perception, emotions and feelings, memory and learning, and states of consciousness. Other topics in psychology are investigated based upon time available and student interest. These could include language, intelligence, gender, health psychology, social psychology, human development, personality development, and psychological disorders and the therapies that attempt to cure them. This course requires a significant amount of reading and writing.

HISTORY ELECTIVES

These electives are open to any eleventh or twelfth grade student. Please note that they do not fulfill the senior history requirement.

CONSTITUTIONAL LAW

This course examines the United States Constitution and how it applies to legal issues of concern today. After an historical overview, students look at areas of interest such as the death penalty, abortion, criminal rights, and student rights. Nightly reading assignments of Supreme Court cases are followed by discussion and weekly written reflection. Current events form the basis for much of the discussion. OFFERED FALL

OUTLIERS

Taught by the Headmaster. OFFERED WINTER

WOMEN IN AMERICAN HISTORY

This course will explore the changing roles of women in American society from the colonial period to today. Students will trace women's progress in the culture, economy and government, from Abigail Adams and Anne Hutchinson to Madonna and Hillary Clinton. We will learn why "well-behaved women rarely make history." OFFERED SPRING

SCIENCE

PHYSICS

Physics is the entry course in the Upper School science sequence. The "Physics First" curriculum places a strong emphasis upon the scientific method, data collection and evaluation, graphical analysis, and applying basic mathematical skills to scientific principles. Students should obtain from the course the necessary skills to successfully transition to the study of chemistry. Additional areas of study include forces and motion, energy and systems, states of matter, sound and waves, optics, electricity and magnetism. Laboratory work and various student projects are required.

HONORS PHYSICS

Honors Physics covers the same topics as Physics, but the course does require a more in-depth treatment of topics with a greater emphasis on mathematical analysis. Laboratory work and various student projects are required. Departmental recommendation and the completion of Algebra I are required for enrollment, which is limited to freshmen and sophomores.

CHEMISTRY

Chemistry serves as the central course in the science curriculum. This laboratory-based course builds upon the foundations established in physics, ultimately leading to the study of biology. Chemistry is presented primarily on a conceptual basis, with some aspects of the course addressed quantitatively. Specific areas of study are atomic structure, quantum mechanics, chemical nomenclature, reaction types, gas laws, acid-base chemistry, and the numerous applications of the periodic table.

HONORS CHEMISTRY

This introductory course is open to motivated students with solid mathematical skills. The entire syllabus seeks to answer the three fundamental questions in chemistry: What is it? How much? Will it react and, if so, how fast? Emphasis is placed on the quantitative approach, with reinforcement through laboratory investigation. A winter trimester laboratory project is required. Departmental permission is required for enrollment in this course.

ADVANCED PLACEMENT CHEMISTRY

This course is designed to be the equivalent to a first-year college chemistry course. Topics taught in general chemistry will be studied in greater depth, while aspects not covered will be explored. Topics to be introduced include: stoichiometry, thermochemistry, gas laws, quantum theory, molecular geometry, kinetics, solution equilibria, and electrochemistry. A quantitative approach will be stressed, though experience in descriptive chemistry will supplement the students' background. The numerous required labs will be evaluated on precise reporting and accurate documentation. One year of introductory chemistry and the completion of Algebra 2 are prerequisites for enrollment, which is by departmental permission only.

BIOLOGY

Biology, the study of living things, is a course that gives students a strong background in the structure and functions of molecules, cells, organ systems, genetics, ecology, evolution, and the five kingdoms. Lectures and discussions are supplemented by labs and demonstrations relevant to the topics being studied. Students are graded on homework, quizzes, tests, lab reports, and projects or papers.

HONORS BIOLOGY

This course is an accelerated and intensified version of the regular biology course. Students who are interested in taking the SAT II in biology or in enrolling in AP Biology are both challenged and well-prepared by this course. Class work and labs emphasize the quantitative and technical processes of biology. Departmental permission is required for enrollment in this course.

ADVANCED PLACEMENT BIOLOGY

This course is open to students who have demonstrated exceptional aptitude in biology and chemistry. The course follows the standard AP Biology curriculum set up by the College Board. The course involves a great deal of reading, and labs include experimentation in genetics, DNA, and environmental chemistry. Lab reports must be completed in the standard scientific paper format. Completion of Physics, Chemistry and Biology are prerequisites for enrollment in this course, which is by departmental permission only.

QUANTITATIVE PHYSICS

This course examines the surrounding world with a strong mathematical perspective. Topics include vectors, one and two dimensional motion, Newton's Laws, energy, gravitation, rotational mechanics, and wave phenomenon. Advanced topics include the study of sound, light, electromagnetism, and electrical circuits. Laboratory work and various student projects are required. This course is not open to freshmen, but it may be taken to fulfill the physics requirement for upperclassmen or serves as a second physics experience for those who have completed the entry-level course.

ADVANCED PLACEMENT PHYSICS

This course is open to students who have completed one year of Physics, Algebra 2, and have departmental permission. Topics introduced in first-year physics are covered in greater depth and detail. Additional topics include: thermodynamics, optics, nuclear physics, and relativity. This course is the equivalent of one year of college physics and is geared toward taking the advanced placement exam in the spring.

SENIOR SCIENCE ELECTIVES

These courses are not open to students in grades 9–11.

BIOETHICS

This class helps students develop an understanding of the ethical, moral, and social issues that underlie current medical practices, environmental policies, and scientific discoveries.

Fall Trimester: The class takes an in-depth look at current medical practices. Students spend considerable time reading, writing, and debating about classical topics in biomedical ethics, including abortion, euthanasia, suicide, and experimentation on humans.

Winter Trimester: The class deals with the ethical, moral, and social implications of current discovery and technology in science. Students study the scientific principles behind current technology, the ethical and moral issues requiring the use of all new technology, and the social implications the new technology holds for the future generations. Topics include gene therapy, genetic engineering, advances in reproductive technology, cloning, and all new discoveries made throughout the year.

SCIENCE ELECTIVES

These electives are open to any eleventh or twelfth grade student and to selected 10th graders by permission.

EVOLUTION

In studying the controversial topic of evolution, this course is designed to address the basic issues surrounding the controversy, the common misconceptions regarding evolution and intelligent design, and, most importantly, the science behind the theory. Examining the evolutionary links of biology at multiple levels, the course clarifies the need for evolutionary theory in science and allows students to form their own opinions upon that basis. Requirements for the course include an organized classroom debate, an in-class presentation, a museum project, a number of take-home exams, and response papers on the required reading. OFFERED FALL

HUMAN ANATOMY

This course is designed for juniors and seniors interested in life sciences. Course content will include the systems of the body and will explore the forces that disrupt the homeostasis of the body. Case studies will be used to assess students' understanding. This course is a perfect complement to Honors or A.P. Biology. OFFERED FALL

GENETICS

This course examines the genetic revolution and its effects on modern-day science. Beginning with a history of its theory and origins and proceeding through its modern-day applications and ethical challenges, this course asks its students to seek a better understanding of the coming genetic age. Course requirements include weekly labs and lab reports, responses to assigned readings, regular in-class exams and a final project / presentation. OFFERED WINTER

ECOLOGY

Knowledge and awareness of the human ecological footprint are more necessary today than ever before. This course reviews major ecological concepts, identifies techniques used by ecologists, provides an overview of local and global environmental issues, and examines individual, group, and governmental activities that protect natural ecosystems. The course is designed to provide technical information, to direct students to pertinent literature, to identify problems and issues, and to consider appropriate analytical solutions to these problems. OFFERED SPRING

ENVIRONMENTAL SCIENCE

Environmental science is an interdisciplinary academic field that integrates physical and biological sciences to study the environment and the solution of environmental problems. Students examine, debate and discuss the environment from a practical, research-based approach. Questions such as, “Water bottles: what is the effect on our environment?” “What is the cost and impact of junk mail?” and “What is killing the honey bees (colony collapse disorder)?” and case studies such as the debate about dioxin are researched and addressed. The course is offered in the winter and spring trimesters and may be taken for either or both terms.

MARINE BIOLOGY

This course will familiarize students with different types of marine ecosystems and the biology of marine organisms. In the first half of the course, we will survey the wide diversity of organisms inhabiting the ocean, with an emphasis on animal behavior and feeding ecology. In the second half of the course, we will take a more community-based approach and explore the unique relationships that help shape the different type of marine communities (e.g., coral reefs, kelp forests, estuaries, intertidal, and open ocean communities). A large component of the class will consist of interactive lab experiments, debates, and on- and off-campus interviews with different marine resource “stakeholders” designed to help students develop and articulate their own opinions on environmental and marine conservation issues. By the end of this course, students will be able to not only gain a broader appreciation for the complexity of life in the ocean, but be able to make well-informed decisions regarding the different environmental challenges facing our world today. OFFERED SPRING

HEALTH AND WELLNESS 9

In this course, students learn about a variety of topics, such as fitness and nutrition and stress management. Gender specific health care and education, drug and alcohol abuse and prevention, self-esteem and body image as well as healthy communication and relationships are explored. This course focuses more on the challenges facing students entering the Upper School years; it is required of all ninth graders and is offered in each trimester.

HEALTH AND WELLNESS 11

This course focuses on providing students with current information on all manner of health and wellness issues including nutrition, drug and alcohol abuse, and STI’s. CPR and first aid are covered. Stress management and relaxation techniques along with self-care are explored. Information from both western allopathic medicine and complementary and alternative medicine (CAM) approaches to health and the current scientific research being done in these areas are discussed. A forum for open discussions on decision-making, relationships, self-esteem, body awareness, healthy self-image, as well as self discovery of core beliefs and values is an integral component of this class. The course is required of all eleventh graders and is offered in each trimester.

LANGUAGES

CLASSICAL LATIN 1

This course is an introduction to classical Latin. Key concepts presented include major noun functions, the

indicative and imperative mood of verbs, relative pronouns and the comparison of adjectives. Students also study English words derived from Latin roots as well as historical and cultural information. The reading of short selections of connected prose is required.

CLASSICAL LATIN 2

This course is a continuation of Classical Latin 1 and it presents advanced grammatical and syntactical concepts with special emphasis on verbs and translation. Increasingly complex selections of connected prose are read and major developments in Roman culture and history are also studied.

CLASSICAL LATIN 3

This course offers an introduction to Roman authors via amended text. Major grammatical topics such as the ablative absolute, indirect discourse, and the uses of the subjunctive are studied. Complex selections of text, including both prose and poetry are read. Enrollment in this course is limited to students with a final grade of C or better in Classical Latin 2 or with special departmental permission.

CLASSICAL LATIN 4

This course provides an introduction to major Roman authors. During the first half of the year, students read selections from Caesar's Gallic Wars; in the second half of the year, students read selections from the lyric poetry of Catullus and Horace. Departmental permission is required for entry into this course.

CLASSICAL LATIN 5

This course introduces students to the epic poetry of Vergil's Aeneid. Grammatical analysis, comprehension, translation, and interpretation of text are all stressed in reading assignments. Departmental permission is required for entry into this course.

BEGINNING CLASSICAL GREEK

This course presents an introduction to Attic dialect of classical Greek. Students learn the Greek alphabet, major noun functions, adjectives, adverbs and their comparatives, relative clauses, and several tenses of the indicative mood of verbs. This course also focuses on Greek history and cultural contributions to modern science, mathematics, literature, the arts, politics, and philosophy. This course will not be offered in 2011–12.

CLASSICAL GREEK 2

Greek 2 builds upon the foundations learned in Greek 1 and focuses on more in-depth grammatical topics and the inner workings of the language. Special emphasis is placed on translation and the retention of forms, as these become more complex and detailed. In addition, emphasis is placed on cultural aspects, including the Persian and Peloponnesian Wars, the Greek trireme, and the new Greek comedy and philosophy. This course will not be offered in 2011–12.

SPANISH 1

This course is designed for students with no previous knowledge of Spanish. Students learn basic grammar in an oral/aural context in each class. Students in Spanish 1 are expected to develop the four language skills of speaking, listening, basic reading and writing as well as an appreciation of Latino culture. Students are exposed to native speakers of Spanish in an interactive CD ROM included in the Avancemos textbook, video program and videos on the Spanish speaking world.

SPANISH 2

This course builds on the grammatical structure of the Spanish language learned in the first year of Spanish. The focus is on developing and increasing skill levels in the areas of aural comprehension, speaking, reading and writing. The students learn to describe situations in the present, past and near future tenses. At the end of the course, students will have an intermediate understanding of grammar, including sentence formation, complex verb conjugations, and idiomatic expressions. Students in this course also discuss various cultural aspects of the

Spanish-speaking world.

SPANISH 3

In Spanish 3, students continue to expand their grasp of vocabulary and grammar as presented in readings. These range in genre from short pieces of poetry to short stories and cultural interludes. Students are expected to read, speak and respond to different situations presented in class. The class is taught primarily in Spanish; emphasis placed on sentence structure and comprehension to communicate thoughts and ideas.

SPANISH 3 HONORS

This course offers an intensive review of the basic structures of Spanish. Class is conducted primarily in Spanish with activities designed to practice and consolidate all language skills: listening, speaking, reading and writing. Cultural readings are used to expand vocabulary, stimulate discussion and broaden students' understanding of the Hispanic world. Emphasis is placed on oral and written communication. Completion of Spanish 2 and departmental recommendation are required for entry into the course.

SPANISH 3: FILM AND CULTURE

In this course, students examine the diverse elements that have shaped Spanish culture through an exploration of political, social, economic, religious and artistic topics. Students develop critical analysis skills through reading, discussion and written and/or oral projects. Movies filmed in Spanish set the stage for debates and discussions. The course is taught in English and Spanish, and it does not replace level 3 Spanish as a prerequisite for entry into a level 4 course.

SPANISH 4

This course is designed to reinforce and expand the Spanish language skills the student has acquired in the first three years of language instruction. In this course, student should improve their ability to manipulate not only the basic structures of Spanish but more idiosyncratic and sophisticated structures as well. Special attention is given to vocabulary enrichment, literary and cultural readings, oral discussions and writing. The course is taught in Spanish, and completion of Spanish 3 is required for enrollment in this course.

SPANISH 4 HONORS

Through exploring the geographic and human diversity of the Spanish-speaking world, students develop increasingly complex skills for analyzing and communicating in Spanish. They study such essential dimensions of that world such as: (1) geography and development; (2) environmental challenges and solutions; (3) population and demographic changes and challenges; and (4) ethnic diversity. Students will be exposed to original movies that depict situations and true stories of the history of Latin America. The course is taught in Spanish, and completion of Spanish 3 or Spanish 3 Honors and departmental permission are required for enrollment in this course.

SPANISH 5 HONORS

Students explore the diverse histories, circumstances and contributions of Latinos in the United States by reading essays, news accounts, short fiction, and autobiographies, and by viewing videos and television broadcasts. They consolidate their language skills and continue to develop their ability to analyze and communicate in Spanish by writing compositions, making oral presentations and engaging in other interactive group activities. They also review Spanish structures difficult for speakers of English. The course is taught in Spanish, and completion of Spanish 4 Honors and departmental permission are required for enrollment into this course.

JAPANESE 1

By the end of this course, the students will be able to read and write the two phonetic alphabets of Japanese. The four basic language skills are taught, but speaking is given the most emphasis. Cultural aspects of the

language and country are also emphasized through short culture notes, and the use of video. Students also learn how to do calligraphy and sing Japanese songs. In late March, the class travels into Manhattan to attend a Japanese Spring Festival where they learn more about the customs and culture of Japan. There are also opportunities to interact with Japanese students who attend the Keio Academy in Purchase, New York.

JAPANESE 2

Students continue to build upon what they learned in Japanese 1. They also begin to learn Kanji (Chinese characters). Students also learn more vocabulary and grammar through dialogue practice, reading, writing, songs, use of the Internet, and video activities. Cultural aspects of the language and country continue to be emphasized in the course through field trips and hands-on experiences.

JAPANESE 3

Speaking activities continue to be the main focus of this class. Students also continue to learn Kanji and develop more advanced grammatical skills. More authentic reading and listening activities are introduced in order to increase students' vocabulary and listening comprehension. Students are expected to do longer and more detailed writing. Culture continues to play an integral part of this course.

JAPANESE 4 HONORS

By the end of Japanese 4, students will have learned close to 200 Kanji characters. They continue to learn through thematic units, which emphasize speaking and listening comprehension. However, reading plays a more important role in this class as the students begin to learn enough Kanji to read some authentic materials. They are expected to communicate with fellow students and the sensei in Japanese during class. Culture is emphasized through field trips and hands-on experiences.

JAPANESE 5 HONORS

In Honors Japanese 5, students will learn more advanced grammar and continue to build their vocabulary and cultural knowledge through thematic reading units based on the topics of history, baseball, fashion, food and lifestyles, recycling, manga and anime, and Haiku. In this class, students will also be able to do extensive reading from the class library. Authentic materials will also be used to build student reading, writing, listening, and speaking skills.

PERFORMING ARTS

STAGECRAFT AND DESIGN

This class will cover all aspects of the technical theatre. Students will learn how to set and focus lights, design and construct sets, manage backstage traffic during productions and costume actors. The students will put their knowledge to practical use by working on school productions and serving on the running crew for outside companies that rent the black box for performances. OFFERED FALL AND SPRING

ACTING AND SCENE STUDY

This acting class focuses on the text as a springboard for performance. Whereas improvisation demands that the student create on the spot, this class examines the importance of staying true to the script and bringing the written word to life. Students work on a variety of scenes, both contemporary and classical. Additionally, students examine different theatrical styles like comedy, tragedy, melodrama, and the absurd. Acting is a physical endeavor. Students should be prepared to move! The course culminates in the presentation of polished scenes before an audience. Grades are earned based on commitment and improvement, not on talent. OFFERED WINTER

CINEMA STUDIES: GENRES IN FILM

Each of the following classes examines the history and characteristics of different film genres. Students analyze

each genre for similarities in dramatic structure, character, setting, mood, and filming techniques. These courses also include a look at the actors, directors, writers, and artists that defined each genre. Through viewing, reading, writing, projects, and discussion, students come to recognize the philosophical, social, and political implications of each genre and ultimately come to understand the power of language, art, and film.

Horror Films: Zombies, vampires, ghouls and monsters - This class is a survey of some of the greatest horror films ever made. This course will look at Universal Studios' monster movies and analyze them against contemporary works by artist like George Romero, Wes Craven and Stephen King. Be prepared to be scared. OFFERED FALL

Teen Angst: Films about teenagers lost in an adult world have dominated the box-office since the 1950's. This class will look at some of the most memorable films of the genre starting with **Rebel Without a Cause** and following the historic evolution of teen films through the turn of the century. OFFERED WINTER

Comedy: There are so many great comedians and so many funny movies that this course could last a lifetime. Unfortunately, the class will only last a term, and so some landmark films of comedy will have to be explored. Movies by Mel Brooks, Woody Allen and Neil Simon are included in a survey of truly funny films. OFFERED SPRING

DANCE: DEVELOPING PRESENCE

This voice, speech and movement class helps to develop confidence and skill in all types of performing/public speaking arts. In addition, this class assists students with awareness of body, mind, breath and voice as their primary instruments for communication, expression and creativity. This class helps students understand the meaning and development of presence that can assist them in so many situations throughout life. OFFERED FALL

ARTS FUSION—AN EXPLORATION OF CREATIVITY THROUGH A MULTI-ARTS APPROACH

This class explores creativity in many forms through a variety of the arts from history to present day. Students do their own creative arts projects based on certain criteria, and they can present them through several different venues including Flip Video projects based on a fusion of styles and genres. Students are encouraged to track their own creative progress and learn from it. In this class, process is as valuable as product or performance. OFFERED WINTER

DANCE AND MOVEMENT CHOREOGRAPHY, CONDITIONING AND IMPROVISATION

Based on concepts of dance, movement, improvisation and composition, this course explores the many ways to create a dance piece. Students also receive training in conditioning from a variety of styles, techniques and disciplines of movement and dance. OFFERED SPRING

YOGA AND TAI CHI

A variety of forms and styles of Yoga, Tai Chi, Meditation and Continuum Breath and Movement as well as a variety of other movement disciplines such as Pilates, Feldenkris, and Alexander Technique are offered to develop strength, fluidity, flexibility, concentration, relaxation and stress reduction, balance, energy, coordination, and awareness. While this enhances and develops skill, respect, and self-discipline in life and art, it is helpful for athletes as well. This course is offered in the fall, winter and spring trimesters, and it may be taken for more than one trimester.

CHORUS

The Harvey Upper School Chorus meets four times in the eight-day cycle. Singers perform in the winter and

spring concerts, plus other performance opportunities that may arise. Students enhance their abilities to sing in tune, sing harmony, read musical notation, and interpret music sensitively. Daily warm-ups improve diction, agreement of vowels within the group, and vocal range. Repertoire includes music from folk, popular, and traditional choral canon of “classical” pieces. As is appropriate for any school setting, religious texts of various kinds may be studied and performed. Arrangements of Broadway music and jazz may also be incorporated.

CHAMBER SINGERS

The Harvey Chamber Singers is a small group drawn from the larger Upper School Chorus. Selection is by audition only at the beginning of each academic year. Once a student has been accepted into the group, he or she may sign up in the spring for the following year without re-auditioning. The Chamber Singers meet during the same slot as the US Chorus, and will meet on the three days per eight-day cycle that the larger group does not meet. Students in this group must be highly motivated musically and have a desire to sing a cappella with other students who are equally as committed to music. Repertoire may focus on various genres: Renaissance, Baroque, Classical, Modern, Jazz and popular, depending on the particular interest and talent of a given group. There are additional opportunities for the Chamber Singers to perform off-campus, since they are a smaller group.

INSTRUMENTAL ENSEMBLE

The Harvey Ensemble welcomes all instrumentalists in search of opportunities to share their musical talents with their peers and the community. General musicianship and ensemble techniques are developed and ensemble musicians examine diverse musical traditions from early Renaissance to recent trends in jazz and pop. There are performances to showcase the ensemble’s work throughout the year. Interested students must be willing to commit to additional practices outside of class and must have studied their instrument previously with a teacher.

MUSIC AND CULTURE

This class examines the history of music, its structure, and its importance to various cultures. Emphasis is placed on how to listen to music, including music from the traditional Western choral and instrumental canons. Students are asked to write essays, take quizzes, and participate fully just as in any other academic class. The course is required of all ninth graders and is offered each trimester.

FUNDAMENTALS OF MUSIC THEORY, I, II, AND III

This is an introductory course in Music Theory. If you have an interest in building your understanding of Music Theory, this is the place to be. Everyone starts slowly, and those who are ready can progress quickly. Topics covered will include: treble and bass clef familiarity, key signatures, the circle of fifths, identification of intervals both written and aural, sight-reading and dictation exercises. If you plan any type of college study in music, this introductory course is necessary. After mastering the basics, students who play an instrument can eventually compose music for that instrument and extend their knowledge beyond the basic. **Music Theory I is open to everyone in the Fall. The course will continue in Winter Term with Music Theory II, and students must have permission from the Instructor before taking this course. Music Theory III in the spring is also by permission.**

FINE ARTS

STUDIO ART

This course is designed to engage students in a variety of art media and techniques, including drawing, painting, clay, stained glass, silk painting, and sculpture. Emphasis is placed on developing imaginative solutions to two- and three-dimensional projects. This course is offered each trimester and may be taken for more than one term.

DRAWING AND ILLUSTRATION

Students learn to draw from direct observation using a range of media that include pencil, charcoal, markers, watercolors, and acrylic paint. Perspective, proportional relationship, contour line, and shading are explored with an emphasis on the elements of line, shape, value, and composition. This course is offered each trimester and may be taken for more than one term.

CERAMICS 1

Students throw, fire, decorate, and glaze pots and plates created on a potter's wheel. Topics include clay preparation, proper wedging and centering techniques, and throwing cylinders and bowl forms as well creating various forms from these basic shapes. This class is open to beginners as well as those students who already know the basics of wheel throwing. OFFERED FALL

STAINED AND FUSED GLASS / MOSAICS

Students design, cut, and fire both single layer and multilayered containers. Stained glass window design and lead soldering are taught. Students also learn the ancient art of using small colored glass pieces or broken pottery to create designs. This class is open to beginners as well as students with experience in glasswork. OFFERED WINTER

CERAMICS 2

Students build medium to large-scale slab vessels. Topics include clay preparation, rolling slabs by hand with a slab roller, using templates and patterned inlay as well as colored glazes. This class is open to beginners as well as to those with experience in hand building. OFFERED WINTER

SILK PAINTING

Using traditional Gutter resist outline as well as direct painting and salt techniques, students will paint on silk fabric and create small and large pictures and wall hangings. The commercial dyes that are used are similar to watercolors and produce vivid and infinitely varied color combinations. OFFERED SPRING

CERAMICS 3

Students must have prior experience in producing wheel or slab-based forms to enroll in this class. Emphasis is placed on designing and painting, in the majolica glaze style, bisque-fired ceramics. A trip to the Metropolitan Museum of Art's majolica collection is taken. OFFERED SPRING

DIGITAL PHOTOGRAPHY

This is an introductory course which teaches the use of a basic digital camera and photo editing software. The students learn how to alter their images in Adobe Photoshop, a successful and widely used photo-editing software. The main emphasis in this class is to understand about the basics of image composition and to inspire artistic sensitivity. The course is offered each trimester and may be taken for more than one term.

GRAPHIC DESIGN

This class offers students a glimpse into the field of graphic design and how print advertisements are being created. They learn the basics of graphic design programs like Adobe Illustrator and InDesign. The students create brochures, posters and other graphic materials from scratch by incorporating their own photos and graphics into a graphic layout program. The course is offered each trimester and may be taken for more than one term.

ADVANCED DIGITAL PHOTOGRAPHY

In this class, the students build on their knowledge of how to use a digital camera and learn how to work with Adobe Photoshop as a photo-editing tool. The curriculum focuses on photography as an art form and as a method of self-expression. The students learn about elements of composition and narrative content in a photograph. The goal of this class is to sharpen the students' perception of their immediate environment. This course is offered each trimester and may be taken for more than one term.

VIDEO PRODUCTION

This is an introductory class to learn how to use a video camera and edit recorded material in iMovie as well as Final Cut Pro. Students create short films from assigned topics, such as interpreting poems and song lyrics, and turning the interpretations into short films, conduct interviews about specific topics, create ads for invented products, or make films from visualized dreams. This course is offered each trimester and may be taken for more than one term.

PORTFOLIO DESIGN

This is a year-long course for juniors and seniors designed to prepare a portfolio of work for entrance into an art or architecture program in college. Enrollment in this course is with permission of the department head only.

THE HISTORY OF ART

This one-trimester course is an examination of the major works of western art as reflected in painting, sculpture, architecture, engineering, and photography. The time frame includes prehistory, ancient Egypt, Greece, Rome, and Europe as well as the present. The course combines lectures with visual aids and hands-on projects appropriate to the period being studied. This offered each trimester and is required of all tenth graders.

YEARBOOK

This is an introductory course in the layout and design process of the school's Cavalier Yearbook. Students collect, organize, and produce this 200 page yearbook, covering the entire Harvey school year. Assignments to photograph specific school events may also be required. Adobe Photoshop and InDesign, as well as Quark Express are studied and utilized. This course is offered in the winter and spring trimesters.