

THE HARVEY SCHOOL



Upper School Program of Study
Academic Overview & Course Descriptions



“ Our students are active, engaged creators of their own educational experience, demonstrating how thoughtful, caring, confident, creative, and courageous they can be on a daily basis. They use their voices to share their knowledge and tackle big questions, both inside and outside the classroom. Each student’s story and learning experience is unique and encouraged at Harvey, nurtured by a highly committed and dedicated faculty and staff. ”

| Bill Knauer, Head of School

TABLE OF CONTENTS

Our Philosophy 3

Academics at Harvey 4

Academic Requirements 5 - 6

 Senior Bridge

 9th Grade Crossing

English 7 - 8

 English electives

Social Studies and History 9 - 10

 Social Studies and History Electives

Languages 11 - 12

Mathematics 13 - 14

Science 15 - 17

 Senior Science Electives

 Science Electives

Performing Arts 18 - 19

 Theatre and Acting

 Dance, Movement, and Mindfulness

 Music

Visual Arts 20 - 22

Virtual Electives 23

OUR PHILOSOPHY

At The Harvey School, we realize that each of our students brings a blend of talents and abilities that contributes to the uniqueness of our school. To help students maximize their potential, we ask that our faculty members seek out each student's talents, in addition to challenging and helping each of them reach his or her highest level of academic achievement.

Attentive/ supportive teachers seek the right mix of encouragement, support, discipline and challenge necessary to help students learn the skills and techniques of academic success, and to succeed within our school and as members of society. Small classes are a major feature of the School, allowing teachers to work closely with each student. Faculty members help students master the skills that lead to academic success and understand the content of their courses. Maximizing the benefits of technology is an integral part of that process.

While our curriculum is rooted in Western culture and our values are of the Judeo-Christian tradition, we encourage exploration and critical awareness of their cultures and traditions. We believe that to be successful as individuals, students must gain self-confidence and self-mastery, in addition to learning social responsibility. Teachers are expected to be role models and guides, both in and out of the classroom.

Each student has his or her own contribution to make. Graduating from Harvey means that our students have not only found a level of academic success, but they also know how to behave honorably and responsibly in society.

ACADEMICS at HARVEY

Academic Year and Grades

The School year is divided into fall, winter and spring trimesters, each approximately 12 weeks long. Each trimester consists of two marking periods. At the midpoint of each marking period, progress reports may be sent to parents indicating a student's improvement or need for improvement in a particular course. Examinations are given at the end of the fall and spring trimesters, and students are assigned projects to be completed before the end of the winter trimester. Teachers generally hold review periods before each exam, which are two hours in length.

Grades are given at the end of the marking period. Trimester and year grades appear on the transcript.

There are five letter grades:

A (superior accomplishments) through D (a minimal understanding of the essentials), and F (no credit)

There are five effort-related grades:

4 (superior effort) through 0 (no discernible effort).

Homework

Homework is an essential part of the academic process. The school encourages students to budget their time so that some homework can be completed during the school day. However, most students can expect to spend some time at home working on assignments. To assist students, all teachers post homework assignments on an academic website.

Extra Help

Extra help is a cornerstone of the Harvey academic program. Although it is a student's obligation to seek additional help when needed, a teacher also may require a student to meet during study halls or other free periods.

Honors

Academic achievement is recognized at the end of each marking period. Students who earn a 3.3 grade point average and have no grade lower than a B- (2.7 weighted) are named to the Honor Roll. Students who earn a 3.7 average with no grade lower than a B (3.0 weighted) are named to the Headmaster's List and invited to a dinner hosted by the Headmaster. Headmaster's List students whose averages are 4.0 or higher are designated as Cavalier Scholars and receive a special certificate.

Technology: The Krasne Project

The Krasne Project, named after Charles A. Krasne, treasurer of the Board of Trustees, provides all students in every area of school life with hands-on experience in computer applications, including Microsoft Office, Adobe Creative Suite, Apple iLife, Autocad and Final Cut Pro. Web-based applications such as Criterion, Turn-it-in, and Apex are recent additions to the learning environment. Students apply these technological tools to develop, retrieve and format information to assist them in their classes and provide a creative medium for artwork and other presentations. The Krasne Project is computers in the library for student use. Students have access to computers with both Apple and Windows operating systems. Each lab has high-speed Internet access so teachers and students can easily access, retrieve and integrate data, thereby enhancing instruction and learning.

UPPER SCHOOL

Department Chairs, academic advisors, faculty and the College Guidance Department play an important part in the placement of students. The placement of incoming students is accomplished by the Upper School Head, Assistant Upper School Head, and Dean of Academics in consultation with various department chairs.

Present students are placed in course levels for the following year by their teachers in the respective subject area, in conjunction with their department chair.

ACADEMIC REQUIREMENTS

The minimum distribution of course requirements for graduation are as follows:

- English: 4 years
- Social Studies and History: 3 years (including Global Studies, Modern European History, and U.S. History)
- Math: 3 years (including Algebra 1, Geometry, and Algebra 2)
- Science: 3 years (including Science Trajectories and 2 lab sciences selected from Physics, Chemistry, and Biology)
- Foreign Language: 2 years of the same language (completed in grades 9-12)
- Arts: 2 years (6 trimesters)
- Senior Bridge Seminar

Students are expected to go beyond the minimum requirements and take four years of a foreign language (either four years of one language or two years of two different languages), four years of mathematics (Algebra 1 & 2, Geometry, & Pre-Calculus), and an additional science course. 9th, 10th, and 11th grade students must take 6 Harvey School courses per term. Senior course loads will be determined for each senior individually, with a minimum of 5 Harvey School classes per trimester, during conferences with the student's college counselor. Each student must fulfill all academic requirements, be found in good disciplinary standing, and be approved by the faculty before a diploma may be awarded.

Students earn one credit for each course passed each term. Partial credit is not granted in a yearlong course if that course is dropped at any point during the year. In order to graduate or gain class status, students need to accumulate a minimum number of academic credits:

- Sophomore status 18 credits
- Junior status 36 credits
- Senior status 54 credits
- Diploma awarded 69 credits

The Harvey School reserves the right to withhold academic credit or trimester grades for any student who misses an excessive number of the meetings of any class, regardless of absences having been excused by a parent or guardian. (Refer to Attendance Policy.) Any student affected by this policy may be required to successfully complete a summer school course of study approved by the Head of Upper School.

SENIOR BRIDGE SEMINAR

This course approaches the final year of high school as an opportunity for students to become more independent and adventurous thinkers and learners, while reinforcing skills that will prepare them for the rigors and autonomy of college and beyond. Through engagement in inquiry and problem-based coursework, design thinking, selected readings, journaling, and independent learning projects, students will hone their abilities in critical and creative thinking, self-reflection, independence, communication, collaboration, research, resilience, and time management. All independent learning projects will be showcased in the seminar's culminating event, the Senior Bridge Expo.

9TH GRADE CROSSING

While the first day of ninth grade marks the crossing of the threshold into high school, the experiential stepping stones, which stretch out before our students, pave the way through the next four years. Students alight upon this journey while exploring a curriculum that reflects its nature. In English 9, *A Writer's Odyssey*, students face the challenges inherent in five different genre islands, as they navigate their way to their final destination, *Writer's Paradise*. *Science Trajectories (Science 9)* leads them through six distinctive units, offering a broad yet immersive course of study under the tutelage of as many faculty members.

Similarly, the opportunity to sample, investigate, delve and connect continues when students travel the 9th Grade Elective Path:

Art Lab

In this term-based course, freshmen are introduced to the basics of art, primarily through the mixing of colors and shades in a series of projects designed to teach them the fundamentals of color theory. Through various exercises and projects, students will learn several processes for creating art work as well. OFFERED EACH TERM.

Music in Media

Students in this course will study the use of music in movies and television, and how the process of creating scores and sound effects has evolved from the use of orchestral instruments to the use of digital software. Composers such as John Williams, as well as the classical music themes used scoring *Jaws*, *Star Wars*, and more will be highlighted. Students will also explore the basics of producing original music, effects, and soundtracks with traditional instruments, as well as digital software. OFFERED EACH TERM.

Stagecraft 9

This class will provide students with a working knowledge of the technical theatre, focusing on set construction, design concepts, lighting, costumes, sound and props. Students will learn how to use many of the tools in the shop while learning how to carve and sculpt foam. OFFERED EACH TERM.

Movement, Meditation, and Dance

Based on concepts of dance, movement, improvisation, and composition, this course explores a variety of forms of movement in life, as well as the many ways to learn and create a dance piece. Additionally, students will receive training in, and practices from a variety of techniques, and disciplines of movement, mindfulness, meditation, yoga, and journaling. OFFERED EACH TERM.

Acting 9

The Acting 9 class will explore various performance techniques for both stage and screen, incorporating props, costumes, and different settings. The goal is to create a safe space where students can follow their impulses and passion. This environment will allow students to develop compelling characters through improvisation, monologues and scene work. Performance opportunities are a possibility. OFFERED EACH TERM.

ENGLISH

ENGLISH 9

This course aims to raise students' reading and writing skills to the next level. With Homer's intrepid Odysseus as our literary guide, the year is organized as a Writer's Odyssey. While focusing on the 6+1 Traits of effective writing and on writing as a process, foundational skills are introduced and reinforced as English 9 journeys from one genre island to the next. Throughout their travels, students will study related texts, including *The House on Mango Street*, *Macbeth* and *Lord of the Flies*, and are expected to select their own books for independent reading.

HONORS ENGLISH 9

Honors English 9 challenges students to develop their writing and analytical skills and invites them to indulge their love of reading. As in English 9, the course is organized as a Writer's Odyssey, but will explore additional texts in greater depth and detail. Students will be encouraged to respond to literature with thoughtful analysis and to make connections between what they read and their own lives. Students are expected to select their own books for independent reading. Entry into this class is based on teacher recommendation, and requires departmental approval.

ENGLISH 10

English 10 explores the themes of voice and the power of story, with an attention to the formal qualities of a wide range of genres, such as fiction, mythology, memoir, comics, poetry and drama. Major texts include *Night*, *Maus*, *Fahrenheit 451*, and *Romeo and Juliet*. Students will hone their mastery of the five-paragraph essay, increase their sophistication in literary analysis, and develop their voices as writers.

HONORS ENGLISH 10

This survey course takes students from Anglo-Saxon times to the 20th century so that they may understand and appreciate British Literature. Students will grow as scholars by exploring literary movements and the richness of British classics, including *Beowulf*, *The Canterbury Tales*, *Romeo and Juliet*, *Wuthering Heights* and *Great Expectations*, as well as Romantic and Victorian poetry. Students will be challenged to hone their literary analysis skills and develop their own creative responses to what they read. Entry into this class is based on teacher recommendation, and requires departmental approval.

ENGLISH 11

English 11 presents a survey of American Literature, examining themes such as the conflict between the Individual and Society and the elusive pursuit of the American Dream. Students also explore an inter-textual unit examining Nineteenth Century perspectives on Slavery and the African American Experience. Major works include *The Crucible*, *The Great Gatsby*, *The Narrative of Frederick Douglass*, and *A Raisin in the Sun*, in addition to poetry by Walt Whitman, Emily Dickinson, Robert Frost and Langston Hughes. Extending beyond their mastery of the basics, students will craft more sophisticated works of literary analysis, while examining how these works comment on such topics as race, gender, ambition, and the individual conscience. Running parallel to the juniors' work in American History, English 11 will encourage students to draw connections between literature, history, and their experiences and observations of contemporary society.

HONORS ENGLISH 11

While Honors English 11 pursues the same goals and objectives as the regular American Literature course, Honors students delve into the literature in greater depth and breadth. Students should expect a more rigorous pace, as well as supplemental readings and more frequent writing challenges in a variety of analytical and creative modes. Entry into this class is based on teacher recommendation, and requires departmental approval.

ENGLISH 12

How can we use writing to make sense of the story of our lives? Reading a memoir, a book-length essay, semi-autobiographical fiction and an absurdist novella, seniors will explore the way authors process and present their experiences of the world in various literary modes, while examining such topics as homelessness, war and race relations. Seniors will also prepare for college by writing essays that synthesize analysis of multiple sources and viewpoints. All seniors will complete their course of study in English by completing a Senior Thesis, giving shape to their own life stories.

ADVANCED PLACEMENT ENGLISH

This course is designed for the literary scholar, emphasizing in-depth critical reading and intensive analytical writing about literature. Works studied may include A Portrait of the Artist as a Young Man, The Thespian Plays, Hamlet, Crime and Punishment, Beloved, and Frankenstein, as well as selections from the poetry text Western Wind. In May, students will sit for the AP English Exam in Literature and Composition. Entry into this class is based on teacher recommendation, and requires departmental approval. Students are expected to sit for the AP Exam in the Spring of 2022.

ENGLISH ELECTIVES

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

NEWSPAPER

In this course students will write, edit, design and layout the school newspaper. OFFERED EACH TERM

CONTEMPORARY DRAMA

In this course, students will examine contemporary drama in the context of the history of the theater. Students will do close readings of plays to understand content, structure, character development, and theme. We will look at different genres and forms that have developed over the last 20 years. Students will complete written analyses of plays in addition to creative assignments. OFFERED FALL

FILM AND FICTION

This course provides students with the opportunity to explore storytelling through two of its most popular mediums: film and literature. Students will examine basic principles of storytelling--such as point of view, character development, theme, and symbolism--and how those principles are represented in each form. Students will be expected to use their analytical skills to dissect stories and compare them with the film. Students will also study short clips and full-length movies, such as Psycho, Taming of the Shrew, 10 Things I Hate About You, The Curious Case of Benjamin Button, and Big Fish. They will reflect their understanding of cinematic story structure by keeping film journals, and analyzing scenes, shot by shot. Students should expect to do some reading independently. OFFERED WINTER

PLAYWRITING

Through a series of scene writing exercises, students are introduced to the concepts of dramatic structure and dialogue for the stage. Additionally, the workshop style of the course creates an ongoing opportunity for playwrights to share their work and constructively respond to that of their peers. Each student will complete a one-act play by the end of the term. OFFERED WINTER

SHAKESPEARIENCE!

What's in a name? That which we call "Shakespearience!" will be a chance to understand and perform the works of William Shakespeare, including various scenes, monologues/soliloquies, and two plays (potentially, one tragedy and one comedy). Students will read, discuss, and analyze the writings of Shakespeare, and we will also approach the texts as actors and directors. While this is an English class and there will be reading and writing assignments, students also must be willing to perform/act. To take, or not to take: that is the question. OFFERED SPRING

POETRY

In this course, students will study poetry as a literary form, with a focus on cultural, social, and historical contexts. Our group will explore various poets, from classic to contemporary, through active discussions and written responses. Students will be invited to sculpt their poetic voices; they will craft original pieces and study a published poet of their choice. OFFERED SPRING

STAR WARS STUDIES

A long time ago in a galaxy far, far away... a cult sci-fi film became a multi-billion-dollar industry involving writers, artists, designers, and even engineers tapped to bring the galaxy of Star Wars to life. Students in this seminar will explore the Star Wars phenomenon through a wide range of lenses, exploring the films as dramatic narrative, mythology, philosophy, cultural artifact, political analogy, and commercial enterprise. And we will examine the many fields--from film-making to game design; marketing to theme-park imagineering--in which creatives work to expand the Star Wars Universe. In addition to class discussion, students are expected to contribute regularly to an ongoing discussion forum and will also write one essay, in addition to a final creative project. OFFERED SPRING

SOCIAL STUDIES & HISTORY

HISTORY 9: GLOBAL STUDIES

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 before 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 GLOBAL STUDIES

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: MODERN EUROPEAN HISTORY

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. Students explore 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 MODERN EUROPEAN HISTORY

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. Entry into this class is based on teacher recommendation, and requires departmental approval.

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 20th century and includes both World Wars, the Great Depression, the Cold War and domestic issues of the 1950s, 60s and 70s.

HISTORY 11: HONORS AMERICAN HISTORY

Honors United States History is designed for students who wish to take Advanced Placement courses during their senior year of study, but may not be ready for the rigors of AP as juniors. Students are asked to think in a more critical manner and are introduced to Document Based Questions. The text, *The American Pageant*, is the same work used by Advanced Placement students. Workloads include writing daily assignments, extended papers and the advancement of critical thinking skills. The course will cover America's history fully; examining the 1700s and early 1800s during the fall, the Civil War and Industrial Transformation during the winter, and the modern 20th century from both a domestic and global interest during the spring term. Entry into this class is based on teacher recommendation, and requires departmental approval.



HISTORY 11: ADVANCED PLACEMENT AMERICAN HISTORY

This class is designed to help students achieve college credit in the study of American History. 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 biweekly 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. Entry into this class is based on teacher recommendation, and requires departmental approval.

SOCIAL STUDIES AND HISTORY ELECTIVES

AP 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 four weeks. Entry into this class is based on teacher recommendation, and requires departmental approval. Students are expected to sit for the AP Exam in the Spring of 2022.

ECONOMICS

This yearlong 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.

US GOVERNMENT AND POLITICS: LEGISLATIVE BRANCH

The Legislative Branch course will focus on examining how Congress forms and writes public policies. Attention will be given to how the Framers of the Constitution devised the branch and how it is currently run. Current events as well as the current political climate will be addressed often as past and proposed public policies will be examined. OFFERED FALL

US GOVERNMENT AND POLITICS: EXECUTIVE BRANCH

Students taking the elective course will investigate how the executive branch of our government executes the laws. Considerable time will be spent on investigating past presidents and powers that they hold. Current events as well as the current political climate will be addressed often. OFFERED WINTER

US GOVERNMENT AND POLITICS: JUDICIAL BRANCH

The Judicial Branch course will expose students to the federal judicial process and the unique role of the U.S. Supreme Court in interpreting the U.S. Constitution. Civil rights and liberties within the United States will be analyzed through landmark court cases. Students will be required to analyze court cases and read primary sources on a regular basis. OFFERED SPRING

AP MICROECONOMICS

This course will take a more technical approach to the study of economics, examining the models used by micro-economists to analyze the decisions of businesses, workers and consumers. The AP curriculum requires students to be comfortable with mathematical thinking and analysis; this course will also include substantial research and writing. Entry into this class is based on teacher recommendation, and requires departmental approval. Students are expected to sit for the AP Exam in the Spring of 2022.

INTRODUCTION TO SPORT AND EXERCISE PSYCHOLOGY

This course will introduce the students to sport/physical activity from the standpoint of psychological aspects contributing to participation and associated psychological outcomes of the participation. The course will examine psychological theories and research, and how they are applied to sports/physical activity, affect behaviors and outcomes, along with individual and environmental factors that shape these outcomes. OFFERED FALL

PAGE TO STAGE: GLOBAL CURRENT AFFAIRS

This class will explore combining playwriting and history. In the first marking period, students will learn an overview of modern European politics and begin the process of creating scripts. The second marking period will see the class work on creating a performance based on their written words and study of history. No acting experience is necessary to enroll. OFFERED WINTER

LANGUAGE

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. A final course grade of C or higher in Classical Latin 2, or special departmental approval, is required for entry into this class.

CLASSICAL LATIN 4 HONORS

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. Entry into this class is based on teacher recommendation, and requires departmental approval.

CLASSICAL LATIN 5 HONORS

This course introduces students to the epic poetry of Virgil's Aeneid. Grammatical analysis, comprehension, translation, and interpretation of text are all stressed in reading assignments. Entry into this class is based on teacher recommendation, and requires departmental approval.

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 2 HONORS

This course was designed to further enhance world language skills and to prepare students for living in a global society. Spanish 2H offers a comprehensive review of 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. A greater emphasis will be placed on speaking and writing areas of the language. At the end of the course, students will have an intermediate understanding of grammar, including sentence formation, complex verb conjugations and idiomatic expressions. This course is taught in Spanish. Entry into this class is based on teacher recommendation, and requires departmental approval.

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. This course is taught in Spanish. Successful completion of Spanish 2 and departmental approval are required for enrollment in this 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, students 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. This course is taught in Spanish. Successful completion of Spanish 3 is a prerequisite for enrollment in this course.

SPANISH 4 HONORS

Students will 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. This course is taught in Spanish. Successful completion of Spanish 3 or Spanish 3 Honors and departmental approval are required for enrollment in 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 as well as around 20 kanji characters. 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 readings, and the use of video. Students learn cultural aspects of the culture through field trips and hands-on-experiences. 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 continue to learn Kanji (Chinese characters). Students learn vocabulary and grammar through dialogue practice, readings, 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

Students continue to learn vocabulary, kanji and more advanced grammatical skills through dialogues, readings and listening activities. 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 200-250 Kanji characters. They continue to learn through thematic units. However, reading plays a more important role in this class as the students begin to learn enough Kanji to read some semi-authentic materials. The students are expected to communicate in Japanese in class and the majority of the class will be conducted in Japanese. Culture is emphasized through field trips and hands-on experiences. Entry into this class is based on teacher recommendation, and requires departmental approval.

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. Entry into this class is based on teacher recommendation, and requires departmental approval.

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. Entry into this class is based on teacher recommendation, and requires departmental approval.

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. Entry into this class is based on teacher recommendation, and requires departmental approval.

MATH LAB

The Harvey math lab is a unique, self-paced learning environment where students are given the opportunity to learn and master math concepts. Math lab covers a range of traditional math courses including Algebra I, Geometry, Algebra II, Precalculus and other electives. Individual students are enrolled in the specific course that best fits their math level and use a digital curriculum to learn the content, take self-assessments and complete written assignments. Because the majority of the work is individualized, the students can learn the content at their own pace and gain a much deeper mastery of it. At any time during the class, the teacher is able to intervene with additional support, lecture, examples and explanations. A lap-top is required for this class.

MATHEMATICAL APPLICATIONS

This course will use algebra in authentic situations and show how the concepts will be used in real-life applications. The problems students will work on throughout the course will have data which has been collected through scientific experiments, survey, or census. Students will explore using guided instructions to discover concepts rather than hearing or reading about them. Throughout the course, students will make intuitive leaps that will help improve their mathematical understanding.

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). A graphing calculator, TI-84 or equivalent, is required. 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. A graphing calculator, TI-84 or equivalent, is required. Successful completion of Honors PreCalculus and departmental approval are required for enrollment in this class. Students are expected to sit for the AP Exam in the Spring of 2022.

COLLEGE MATHEMATICS

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.

ADVANCED PLACEMENT STATISTICS

This course introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

Successful completion of Algebra 2 and departmental approval are required for enrollment in this class. Students are expected to sit for the AP Exam in the Spring of 2022.

ENTREPRENEUR EXPLORATION

This course will provide students the opportunity to learn the basics of how to become an entrepreneur. Students will be involved with checking local and federal laws, analyzing risk, researching current trends in the market, determining financial obligations, and creating their business plan. The course will culminate with the presentation of each student's business plan to a panel for evaluation. Throughout the term, guest speakers from the Harvey community will come to discuss their accomplishments and/or failures they had while creating their own business and give guidance to the students. The course will be held on Mondays from 6:00 p.m. - 8:30 p.m. during the Fall Term. The course is designed for those who want to learn about the many facets of becoming an entrepreneur. Open for Seniors; Juniors with permission. OFFERED FALL

SCIENCE

SCIENCE TRAJECTORIES

Science Trajectories is an immersive and challenging 9th grade science program developed by the Harvey faculty. It is designed to inspire scientific inquiry, generate passion for the sciences and showcase the dynamic teaching that takes place in the Harvey science department. With a focus on core scientific principles and unifying themes, the Trajectories program seeks to lay a solid foundation of high school level science, while inspiring individual interest in the various disciplines offered at the higher levels of science at Harvey. Students will partake in six separate units of study, designed to explore the various disciplines and core fundamentals that science demands. Each unit of study will be taught by a specific member of the department during each marking period, and showcase their talents and passions for their unit of study. Students will not only enjoy a new and stimulating environment each term, but embark on a new exploratory journey led by the individual faculty member. To follow this trajectory model, students will then be guided into the field of science that best fits their goals and aspirations and an individual course of study will be determined. The goals of this exciting curriculum is to provide a rich and positive scientific experience for our students, generate both interest and passion for a future in the fields of science, showcase our talented faculty, centralize our curriculum to fit departmental philosophies and core objectives, and finally, to foster a scientific commitment and dedication from our student body.

9th Grade Units of Study:

Unit 1 - Evolution and Earth

- The Unity and Diversity of Science: An examination of Evolution and Genetics
- Earth, Fire, Air, Water: An Examination of Elemental Chemistry

Unit 2 - Energy

- Health
- Energy as Power: An Examination of Electrical Energy and its Application

Unit 3 - Form/Function & The Atom

- Form Fits Function: An Examination of Anatomy Physiology
- The Atom and Matter: An Examination of Atomic Chemistry

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. Entry into this class is based on teacher recommendation and required departmental approval.

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. Successful completion of Chemistry and Biology are prerequisites for this course. Entry into this class is based on teacher recommendation, and requires departmental approval. Students are expected to sit for the AP Exam in the Spring of 2022.

CHEMISTRY

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. Entry into this class is based on teacher recommendation, and requires departmental approval.

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. Successful completion of Chemistry and Algebra 2 are prerequisites for this course. Entry into this class is based on teacher recommendation, and requires departmental approval. Students are expected to sit for the AP Exam in the Spring of 2022.

PHYSICS

Physics places a strong emphasis upon the scientific method, data collection and evaluation, graphical analysis, and applying basic mathematical skills to scientific principles. 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. Entry into this class is based on teacher recommendation, and requires departmental approval.

ADVANCED PLACEMENT PHYSICS 1

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy and power; mechanical waves and sound; and introductory, simple circuits. Successful completion of Physics and Algebra 2 are prerequisites for this course. Entry into this class is based on teacher recommendation, and requires departmental approval. Students are expected to sit for the AP Exam in the Spring of 2022.

ROBOTICS 1

This is a full-year course, where students will learn to design, construct, program, and drive robots using VEX EDR robotics kits and the RobotC programming language. Emphasis will be placed on task-oriented hardware and software design, durability and flexibility.

ROBOTICS 2

Robotics 2 is a full-year, project-based course that aspires to help students learn principles of engineering through robot design. Students develop problem-solving skills, reasoning, and creative thought processes through an engaging, hands-on curriculum. Areas of emphasis include: project and time management, robot design, technical writing, programming, and mechanical engineering concepts. Students build on the fundamentals learned in Robotics 1 and will design, construct, code and document larger systems. Advanced skills include: pneumatics, encoder motor controls, autonomous and driver control programming, sensors and drive trains. Robotics 1 is a prerequisite for this course.



HONORS ROBOTICS COMPETITION

Students will continue to use the VEX Robotics design system, with an emphasis on programming skills and on use of sensors, to develop competition robots for VEX EDR competitions. Students will also work throughout the year to develop a second robot designed to compete in the CREATE U.S. ROBOTICS OPEN. There will be an emphasis on mechatronic principles, integration of VEX PRO parts, and the use of Autodesk Inventor and CAD to design 3-D printed parts. Robotics 2 is a prerequisite for this course.

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. 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. OFFERED FALL & SPRING

SCIENCE ELECTIVES

These electives are open to any 11th or 12th-grade student and to selected 10th graders by departmental approval.

ANIMAL BEHAVIOR

Animal Behavior is a course that examines how natural selection acts to shape behavioral tendencies. Students learn to use cost/benefit analyses to test hypotheses regarding the behavior of animals including those investigating sex differences in mating strategies and parental care. The course will examine different forms of learning and how evolution shapes learning. Lectures and discussions are supplemented by relevant labs and primary literature (e.g., Animal Behavior, Behavioral Ecology) in order to become familiar with the style and content of professional scientific publications. Students are graded on homework, quizzes, lab reports, and projects or papers. OFFERED FALL

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 WINTER

PERFORMING ARTS

THEATRE AND ACTING

PLAYWRITING

Through a series of scene writing exercises, students are introduced to the concepts of dramatic structure and dialogue for the stage. Additionally, the workshop style of the course creates an ongoing opportunity for playwrights to share their work and constructively respond to that of their peers. Each student will complete a one-act play by the end of the term. OFFERED WINTER

STAGECRAFT

This class will provide students with a working knowledge of the technical theatre, focusing on set construction, design concepts, lighting, costumes, sound and props. Students will learn how to use many of the tools in the shop while learning how to carve and sculpt foam. OFFERED FALL AND SPRING

SHAKESPEARIENCE!

What's in a name? That which we call "Shakespeare!" will be a chance to understand and perform the works of William Shakespeare, including various scenes, monologues/soliloquies, and two plays (potentially, one tragedy and one comedy). Students will read, discuss, and analyze the writings of Shakespeare, and we will also approach the texts as actors and directors. While there will be reading and writing assignments, students also must be willing to perform/act. To take, or not to take: that is the question. OFFERED SPRING

PAGE TO STAGE: GLOBAL CURRENT AFFAIRS

This class will explore combining playwriting and history. In the first marking period, students will learn an overview of modern European politics and begin the process of creating scripts. The second marking period will see the class work on creating a performance based on their written words and study of history. No acting experience is necessary to enroll in the class. OFFERED WINTER

DANCE, MOVEMENT, AND MINDFULNESS

DANCE CONCERT COMPANY CLASS

This full-year class focuses on learning and developing techniques in multiple styles of dance, performance art, composition, choreography, and reconstruction. A repertoire of original and existing pieces will be prepared for the Dance Concert, Studio Showings, and other performance opportunities. The Dance Team will grow out of this class.

DANCE LAB

This term-contained class will introduce basic techniques in movement, dance, and choreography. Students will have a chance to explore a variety of genres and styles, as well as the works of notable choreographers and movement artists. Students will also have the opportunity to create their own works through reconstruction and other choreographic methods. OFFERED EACH TERM.

YOGA/TAI CHI

This class explores a variety of Yoga styles, Tai Chi/Chi Kung, Continuum, somatic movement, breath and sound sequences, along with other Movement, Meditation and Mindfulness styles and techniques. This class aims to assist students with stress management, awareness, overall health and wellness, strength, flexibility, posture, balance, and fluidity. OFFERED EACH TERM

MOVEMENT, MINDFULNESS, AND MEDITATION

This class will explore various meditation, breathing, sounding, movement, and mindfulness techniques. In addition to overall health and wellness, this course fosters relaxation, stress management, increased concentration, and heightened awareness. OFFERED EACH TERM



MUSIC

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 Upper School 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 equally 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.

VOICE MASTER CLASS

Students in the voice class learn the fundamentals of healthy vocal production for solo singing. Through a varied repertoire of music and vocal exercises, students will explore topics such as posture for singing, breath support, vocal tone, expression and diction. Repertoire is chosen based on student interest and can include musical theater, classical, jazz, or pop. OFFERED EACH TERM

BAND

Upper School Band is a course in which students develop advanced individual and ensemble musicianship through the study of orchestral and band music, transcriptions, and arrangements. Styles include anything from early Renaissance to recent jazz and pop. The course requires outside practice, and students should have prior study with a private teacher.

MUSIC PRODUCTION

Music production is a term-contained course that is open all year for students interested in producing music using the Logic program. Students will learn the basics of recording, editing, and composing both live and digital sounds. Students in Music Production will be expected to collaborate across disciplines through cross-curricular projects with other departments. Students do not need prior musical experience to take this class. OFFERED EACH TERM

VISUAL ARTS

HONORS PORTFOLIO DESIGN

This is a yearlong course for juniors and seniors designed to prepare a portfolio of work for entrance into an art or architecture program in college. It will be taught similar to an AP Art class, where students will pick a theme and create artwork with the intent that each piece will go into a portfolio to help gain entrance into college. All projects will be designed to fill gaps in the student's skills, experience and portfolio. Topics as diverse as 'what is creativity,' opportunities in the art world, and day-to-day life of an artist will be explored. A minimum of 9 pieces (or time equivalent) must be completed, which requires a commitment to working at least one extra free slot per day, and possibly more at home. Entry into this class is based on teacher recommendation, and requires departmental approval.

DIGITAL PHOTOGRAPHY

Digital Photo provides students with an introduction to photography through the digital camera. Students will learn the basics of operating the camera, including, aperture, shutter speed and depth of field. Students will explore contemporary concepts in photography such as composition, color, focal point, abstraction, portraiture, landscape and documentary. Students will be encouraged to think deeply about their work through group discussions and critiques. OFFERED WINTER & SPRING

GRAPHIC DESIGN

In this course, students will learn the fundamentals of graphic design through a variety of in-class tutorials, exercises and projects. They will be introduced to a brief history of graphic design, explore contemporary works, and use this knowledge to form their own design sensibilities. Students will learn the basics of Adobe Photoshop, Illustrator, and Indesign to create projects such as logos, packaging and ads/posters, and will learn to take digital photographs if needed as a component for their projects. Long term and in-depth projects are encouraged! WINTER & SPRING

INTRODUCTION TO DIGITAL VIDEO PRODUCTION (T.V. PRODUCTION)

Introduction to Digital Video Production is designed to give students the opportunity to create presentations using videography—the process of recording sound and visual images on electronic media. Students will develop skills in video production using the technologies of audio-video equipment and computer-based editing software. Fieldwork involving school activities will provide students with experiences working with digital photography enhancements and capturing video. Principles of video basics, DV technology, the development and creative process, editing, production, effects and presentation will be stressed. The course will provide opportunities for creativity, problem-solving, individual and group interaction, and decision-making. Students should come into the course with a basic understanding of computer use and software operation. OFFERED EACH TERM

YEARBOOK

Yearbook is for those who want to take part in creating the permanent keepsake of this year at The Harvey School. Students will be honing their strengths in subjects they already like, while gaining an introduction in others: for example, students will be introduced to the basics of graphic design through making layouts, graphics and typography. They will also be writing up blurbs and captions, taking photos of school events, and providing their own ideas for the book. OFFERED EACH TERM.



DRAWING

This course explores drawing as a means of expression and communication. Students increase their understanding of visual language while developing their ability to use that language through drawing in the communication of ideas and information. This course places an emphasis on learning and applying the elements of design and drawing from observation, using traditional materials like ink, pastels, pencils and charcoal, while introducing a variety of new media that can be used to 'draw' with. OFFERED FALL

STUDIO ART

This course is designed to enable students to embrace art as a creative outlet and complement to life. It will introduce them to a variety of art media and techniques, including drawing, painting, mixed media and sculpture, through which their own unique vision will begin to be revealed. Emphasis is placed on developing imaginative solutions and individual expression on 2D and 3D projects. OFFERED EACH TERM

FASHION HISTORY & DESIGN

This course is an introductory design class which examines how current fashion has evolved from styles of the past. Following each era studied, students will identify historical elements of fashion and draw parallels to current fashion trend. Students will also have the opportunity to design their own clothes while perfecting their technique in drawing the human form. In addition, students will learn basic sewing skills to help their designs come to life on a small scale mannequin. OFFERED FALL

3D DESIGN

3D Design is a course designed to give students an introduction to a wide array of sculptural materials, techniques, and ideas. Students will explore the basics of art and design through concepts such as line, form, shape, space and balance. Students will experiment with a variety of materials including wire, clay, wood, plaster and paper and be encouraged to come up with innovative solutions to create 3D works of art. OFFERED SPRING

3D DESIGN AND 3D PRINTING FOR ARTISTS

This course is an introduction to 3D design and 3D printing, from the perspective of a creative artist. Students learn how to be "makers" by using various types of basic 3D modeling software to print actual physical objects that they have designed and modeled themselves. Though projects in this course will have an artistic approach, students explore all applications, both functional and artistic, of this new and exciting technology. Students must have access to a laptop they can use in class and at home. OFFERED WINTER

PAINTING

This course explores all aspects of painting. Students focus on learning a variety of painting techniques; they also learn about value, color and composition, and how to apply them to paint people, landscapes, still-lives and abstracts, among many other possibilities. Various eras of painting history will be explored and integrated into lessons. Students apply lessons on composition and design, color and conceptualization to a range of materials and techniques, including: ink, watercolor, acrylic, oil and mixed media painting. OFFERED FALL & WINTER



CERAMICS

This class will teach students the basics of ceramics using both the pottery wheel and hand building. Students will have the opportunity to learn a variety of techniques using these two methods through different projects. Students will also utilize different tools and glazing techniques. OFFERED WINTER & SPRING.

PUBLIC ART AND MURAL PAINTING

This course will introduce and involve students in the process of creating a piece of public art to be displayed permanently or semi-permanently in the school. Working as a group, they will collaborate on everything from concept design through installation at an on campus site. Students will also focus on learning a variety of painting or sculpting techniques to enable the completion of the project. Through various side-projects, they will explore the unique qualities of public art, techniques of project design and creation, the history of public art and murals, among other elements involved in creating art to be displayed in a community. OFFERED FALL & WINTER

ART HISTORY

Through the lives of individual artists, both eastern and western, this course is an examination of Artists in history. This course will examine a small number of individual artists under a microscope, providing insight into their early lives and the world that created them. Students will explore influential art movements previous to the lives of these artists, and what future movements the artists themselves influenced. On a broader level, the course will crossover into other academic disciplines, including science, politics and psychology, to help clarify the arc of the artist's achievements and to better understand why they are celebrated today. Genres explored will include painting, sculpture, architecture, engineering, and/or photography, ranging from prehistory to the present. Along with lectures, note taking and tests, students will experience art history through various hands-on art projects appropriate to the periods they will explore. OFFERED SPRING

STAR WARS STUDIES

A long time ago in a galaxy far, far away... a cult sci-fi film became a multi-billion-dollar industry involving writers, artists, designers, and even engineers tapped to bring the galaxy of Star Wars to life. Students in this seminar will explore the Star Wars phenomenon through a wide range of lenses, exploring the films as dramatic narrative, mythology, philosophy, cultural artifact, political analogy, and commercial enterprise. And we will examine the many fields--from filmmaking to game design; marketing to theme-park imagineering--in which creatives work to expand the Star Wars Universe. In addition to class discussion, students are expected to contribute regularly to an ongoing discussion forum and will also write one essay, in addition to a final creative project. OFFERED SPRING

VIRTUAL ELECTIVES

The courses below are offered virtually through our collaboration with BYU Continuing Education. Students are limited to one course per semester, and grades will be transcribed for the Winter Term or Spring Term. Virtual BYU courses are eligible for General Credit only, and do not replace our standard Harvey School courses required for graduation.

ANIMATION

Do you wonder what it would be like to create the next blockbuster animated movie, or do you want to make the next big video game? Do you have an eye for drawing, technology, and timing? If so, Animation is the course for you! You will learn how to use animation tools to conceptualize and bring your creations to life. You'll learn the ins and outs of creating 2D and 3D animation, from start to finish. You'll even begin working on your own design portfolio and get hands-on experience with creating your own animation projects. Learning about Animation could lead to a thriving career in the growing world of technology and animation.

CRIMINOLOGY

Understanding the criminal mind is not easy. Why do certain people commit horrible acts? Can we ever begin to understand their reasoning and motivation? Perhaps. In *Criminology: Inside the Criminal Mind*, you will be given the rare opportunity to climb inside the mind of a criminal and examine the ideas and motivations at work. The mental state of a criminal can be affected by many different aspects of life—psychological, biological, sociological—all of which have differing perspectives and influences. You will investigate not only how these variables affect the criminal mind but also how the criminal justice system remains committed to upholding the law through diligence and an uncompromising process.

FIRST YEAR ASL

In this American Sign Language course, students are taught the basics of language, simple conversations, and topics such as numbers, feelings, yes and no questions, facial expressions, cultural aspects, and more. This course features interactive elements: live instructor-led orientations and weekly lesson review activities, live one-on-one signing appointments, a student discussion board, and an instructor-hosted wiki. There is a strong emphasis on learning to sign more fluently.

GAME DESIGN

Do you enjoy playing video games or coding? Does the idea of creating and designing your own virtual world excite you? If so, this is the course for you! Tap into your creative and technical skills as you learn about the many aspects involved with designing video games. You will learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting techniques, and even the history of gaming. And to top it all off, you'll even have the opportunity to create your very own plan for a 2D video game! Turn your hobby into a potential career and go from simply being a player in a virtual world to actually creating one!

MARINE SCIENCE

Have you ever wondered about the secrets of the deep and how the creatures below the ocean's surface live and thrive? It is truly a new frontier of discovery, and in Marine Science you will begin to better understand the aquatic cycles, structures, and processes that generate and sustain life in the sea. Through the use of scientific inquiry, research, measurement, and problem solving, you will conduct various scientific procedures that will lead to an increased level of knowledge about marine science. You will also have the opportunity to use technology and laboratory instruments in an academic setting. By recognizing the inherent ethics and safety procedures necessary in advanced experiments, you will become progressively more confident in your abilities as a capable marine scientist.

VETERINARY SCIENCE

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times, we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

THE HARVEY SCHOOL

260 Jay Street | Katonah, NY 10536 | 914-232-3161 | www.harveyschool.org



William J. Knauer
Head of School

Philip J. Lazzaro
Head of Upper School

Elisabeth Visintainer
Assistant Head of
Upper School

Dianne Mahony
Dean of Academics