



High School Curriculum Guide





# **Our Mission Statement**

The Waldorf School of Garden City educates children to meet the world with purpose, gratitude and respect. Our curriculum, inspired by Rudolf Steiner, progresses in accordance with child development, awakening students to the experience of knowledge, strengthening their sense of moral responsibility, and empowering them to act with courage and conviction. The School's aim is to graduate a diverse group of young people distinguished by the scope and acuity of their minds as well as the depth and integrity of their character.



# Freshman Year

# MAIN LESSONS

### AMERICAN LITERATURE

Students begin by reading literature of Native Americans, African Americans and Immigrants, each group contributing to America's diversity. They explore America by reading literature from New England, the Mid-Atlantic States, the Midwest, the West Coast and the South. Students must participate in a storytelling project, modernize a poem from the colonial era, and write a series of compositions on the short stories, poetry and selections of novels covered in the class. Authors and poets covered in this seminar include Nathaniel Hawthorne, Mark Twain, Edgar Allan Poe, John Steinbeck, Ernest Hemingway, Willa Cather, Flannery O'Connor, Phyllis Wheatley, Emily Dickinson, Maya Angelou, Langston Hughes, Walt Whitman, Robert Frost, Robert Hayden, and Theodore Roethke.

### **BIOLOGY: HUMAN SENSES**

Vision, hearing, smell, taste, and touch. Students purposely use these five senses in various experiments and projects to develop an awareness of the physical body and how each individual interacts with the world. Students are also challenged to question the information gathered by the senses through optical illusions. With an emphasis on the eye and ear, this seminar focuses on the study of the structure and function of the nervous system and sense organs. Laboratory activities are an integral part of this class.

### CHINA

This course is intended to provide a brief overview of China. China is one of the oldest civilizations on the planet, and it is still a major player in world events. Students will be exposed to themes in the history of China, elements of Chinese culture, and an understanding of China's potential for the future. Each student will put together a Main Lesson Book with five required page entries (Ancient Chinese Societies, Religions of China, The Imperial System, China Under Mao, the China as a World Power. Additionally, students will learn to play and build their own Chinese Chess Set from materials provided in class.

## HISTORY THROUGH ART

This is a survey course which will familiarize students with the artwork created during the course of western history, beginning with the Paleolithic times and culminating in our contemporary era. Students will view the artwork through slides, create their own copies of pieces symbolic of or inspired by each period, and spend a day at the Metropolitan Museum of Art. Students will also discuss and reflect upon the attitudes, ideas and beliefs of the times as they are presented in both the subject matter and in the form of the artwork.

### HISTORY THROUGH DRAMA

Students study the origins of Theatre, Classical Greek Theatre, Medieval Theatre and Shakespeare by reading Iphigenia in Aulis and Romeo and Juliet. They deconstruct the plot lines and conflicts through games, discussion, performance, and writing. This seminar culminates in a dramatic presentation of various scenes from these plays.

### **HUMANITY AND IDEALISM**

This seminar creates a cognitive-experiential learning environment in which students relate conceptual understanding to practical implementation. The students work in groups to learn first-hand the political and personal art of cooperation and compromise. Each team creates its own society that reflects the personal ideals of the individuals and the geographical, cultural, political and economic forces that shape all societies. Knowledge, content, cooperation, and application of research process are emphasized through written assignments, research work, and oral presentations. As representatives of their society, students present their culture to the high school, parents, and faculty members during the last week of the seminar.

### INTRODUCTION TO CHEMISTRY

Introduction to Chemistry covers measurement, SI units, classes, phases, atomic structure, and the Bohr model. Students learn to quantify properties, structure, and composition of matter. Laboratory activities are an integral part of this class.

### PHYSICS: THERMODYNAMICS

This course explores the physics of heating and cooling, heat transfer, thermal expansion, temperature scales, changes of state, and measurement of heat in relation to everyday applications. In addition to understanding the ideas in a qualitative manner, mathematical relationships and functions are developed and used to quantify investigations.

### U.S. GOVERNMENT

The purpose of this course is to educate the students about the three branches of government: the Judicial, the Executive and the Legislative. Students participate in a variety of public speaking assignments from presentations to debates. Additionally, students have a presidential research assignment.

# YEAR-LONG CLASSES

## **BIOLOGY I**

Topics of study include the endocrine system, cell structure, cell study techniques, theoretical and applied biochemistry, sexual reproduction, (including prenatal and early childhood development), and Mendelian and molecular genetics. Particular emphasis will be given to biotechnology and bioethics.

# ENGLISH I: BRITISH LITERATURE AND SHORT STORIES AND THE NOVEL

Students begin the year reading an anthology of short stories and then a selection of poems. They then progress to novels such as *Animal Farm* by George Orwell, *A Tale of Two Cites* by Charles Dickens and the play, *Our Town* by Thornton Wilder. Students write three to five-page papers answering a thesis question on the major literary works they have read. Students are also required to learn grammar, usage, sentence writing, composition, and vocabulary.

### ENL I: ENGLISH AS A NEW LANGUAGE

ENL class serves international students for whom English is not a first language. The ENL instructor gives support in navigating the rigor of Main Lessons and other academic classes. International students will learn to express themselves effectively in written and spoken English. Students will receive English Language support instruction tailored to their curriculum, class work and homework. Students will also receive individualized coaching in English based on individual needs.

# FOREIGN LANGUAGE I: FRENCH, GERMAN, OR SPANISH

In the first year of high school foreign language classes, students engage in speaking, writing, reading and listening activities while building their vocabulary and studying grammatical structures. The study of culture, customs, poetry, songs and skits enrich and support the students' learning experiences. Emphasis is placed on the ability to converse on a basic level with clear and articulate use of speech.

# LEADERSHIP SKILLS: STUDY, TECHNOLOGY AND SOCIAL AND EMOTIONAL INTELLIGENCE

Ninth grade students learn the skills necessary for success in researching topics for papers and presentations they will be expected to tackle in their freshman year. Units include work citation, plagiarism, organizational tools, and research methodology. Students are required to use online databases, evaluate internet websites, and develop skills on popular programs such as Microsoft Word, Power Point, and Microsoft Excel. In the second half of the year, the course transitions to focus on: Stress Management, Healthy Relationships, Listening Skills, Mental Health, Gender, and Gender Identity.

# MATH: ACCELERATED ALGEBRA

Specific subject areas of study include a review of elementary algebra, an in-depth study of number systems and set notation, linear and absolute value functions, equations and inequalities, systems of linear equations, inequalities, nonlinear systems, radicals and complex numbers, quadratic functions, equations and inequalities, rational expressions and equations, and function notation. The

graphing calculator is introduced and used frequently throughout the course. This course covers all the algebra necessary for achievement on the SAT I.

### MATH: ACCELERATED GEOMETRY

This course develops geometry as a system of logical reasoning using clear definitions, postulates, theorems and corollaries to foster creative and critical thinking. Geometric elements, structures, and relationships are presented and integrated with algebra, trigonometry, logic, and arithmetic. Deductive reasoning is introduced and applied to geometry to develop formal mathematical proofs. The topics of congruence, parallelism, quadrilaterals, circles, similarity, areas, regular polygons, coordinate geometry and locus are studied from geometric, algebraic and graphic perspectives. This course covers all the geometry necessary for achievement on the SAT I. *Prerequisite: Accelerated Algebra and Departmental Approval*.

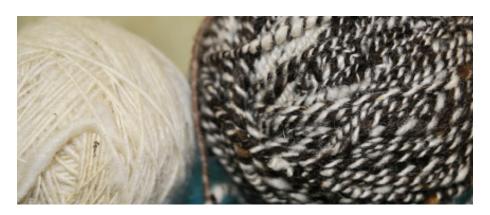
### PHYSICAL EDUCATION

The ninth grade physical education curriculum includes units in soccer, volleyball, team handball, basketball and softball. During these units, students learn skills, terminology, and rules. They also apply their knowledge and skills to game situations. Fitness and cardiovascular activities are presented throughout the year. Safe playing techniques and sportsmanship are always emphasized.

# ART BLOCKS

### FIBER ARTS: YARN SPINNING

Students develop skills in understanding shapes, form and structure of products made from fiber. Students learn about the sources of fibers and how they are cleaned and spun or felted to produce finished fabrics or products. They card, spin and weave by hand and learn to stitch and put things together. They apply their background knowledge, new hand skills and creative energy to create and build an accessory, a vest or wall art.



#### VISUAL ART: DRAWING AND PRINTMAKING

The 9th grade Waldorf art curriculum focuses on polarities: light and dark, black and white, expansion and contraction. We work from both the imagination as well as observation, giving consideration to line weight, value, space, light and depth. We explore mark-making as well, expanding the students' artistic vocabulary. Drawing and printmaking form the foundation of this course.

### **WOODWORKING: JOINERY**

Students will produce a rectangular wooden box with four right-angled corners joined by dovetails. The joints must hold together snugly; the box must maintain its own integrity (without fasteners holding it together). The box must have a lid, feet, and some unique design elements.

### **WORLD DANCE**

This movement block focuses on complimenting the academic program with experiential and body-based activities. Students learn world and folk dances, as well as partner dances such as swing, waltz, polka, and salsa.

# **ELECTIVES**

### CHESS

We will cover the history of chess and the colorful personalities that have been associated with the game. Students will sharpen their play through practice. Students will study famous games, and they will learn the principles of basic and advanced strategies, tactical patterns, opening theory and endgame knowledge. The course will promote skills in decision making, discipline, logic, and sportsmanship. Students will also be encouraged to participate with other schools in friendly competitions and tournaments.

### CHORUS

Students in the Chorus sing a wide range of music and experience a variety of genres. Self-expression becomes a window into communal music-making and into other cultures. The process of preparing music is as important as the final result; students perform at a variety of assemblages.

### **ELEMENTARY CHINESE**

An elementary-level, introductory Chinese language course that provides the foundational knowledge for pronunciation, basic everyday conversation, basic grammatical rules, introductions to basic cultural norms and preferences that govern language use. Using a communicative approach, this elective is meant to situate oral and written language in real-life contexts and promotes learner-centered, interactive classroom activities.

#### MATH LAB

The math lab provides students from all high school math courses an opportunity to get extra practice mathematical course topics. Students can also use this elective to do math homework and get assistance as needed from a math teacher. Math lab is offered four days per week.

# MODEL UNITED NATIONS

The aim of the Model U.N. is for students to learn about how the United Nations functions and the role it plays in global politics. The students assume the roles of delegates of an actual U.N. member nation. In those roles the students learn about global issues, how to write resolutions using the United Nations format, and how to use consensus decision making. The class culminates with a four-day trip to New York City to attend the National High School Model U.N. conference, where students interact with their peers from around the world.

# **MULTI-GENRE BAND**

The multi-genre band offers an opportunity to collaborate with your peers and expand your musical horizons. The goal of this band would be to take songs from a range of artists and genres, understand how they were written, arranged, and produced, and then perform them with our own unique spin! This is a great space to work on improvisation, ear training, composition/arranging, and songwriting. All instrumentalists are welcome!

### MUSIC PERFORMANCE

This class is for students who want to try out some new instruments and be a part of a musical group. Units may include drum circles, learning basic chords on guitar or ukulele, singing in harmony, and writing songs. No previous musical experience is required.

## ORCHESTRA

The orchestra welcomes students who are proficient in playing an instrument (string, wind, horn, or percussion) and who can read music. The repertoire will cover a range of selections including: Western "Classical" music, theater and film scores, world and folk music as well as contemporary music. the High School orchestra will perform at School functions, assemblies, and concerts. Students in orchestra will continue building skills on their instruments and on working as an ensemble.

# STRATEGIC GAMING MECHANICS

During this course, students will learn the basic mechanics of many tabletop games. Different tactics will be explored as the group cycles through many types of games such as classic board games and various card games with unique deck structures. Students will build skills in communication, conflict resolution, resource management, logic, deductive reasoning, and foresight while having the opportunity to experience hobbies that facilitate unplugged entertainment.

#### WEB DESIGN

In today's world, web pages are the leading medium for sharing ideas and information. Learning to design websites is an incredibly useful skill to have for any career path, even if a chosen occupation is not specifically in the web design field. This class is designed for beginners with no previous background in Web Design or Computer Science. The course will be highly visual, dynamic, and interactive. Students will be able to use their own personal interests and creativity to drive their development process.

### YEARBOOK

The yearbook staff is responsible for the complete design and production of the School's yearbook. Students in grades 9 through 12 design pages, take photographs, edit copy, plan, and organize the yearbook and prepare it for printing. Students gain valuable real-world experience as they meet deadlines, work cooperatively and utilize their leadership skills to form a cohesive group to manage and complete this large project.





# Sophomore Year

# MAIN LESSONS

## HOMER'S ODYSSEY

This course is an in-depth study of The Odyssey, an epic narrative divided into twenty-four books, with a supplementary exploration of Greek mythology. Students closely examine each chapter to assess character motivation, identify Homeric epithets, and analyze multi-layered epic similes. After reading the climax of the plot, students must assess whether or not the ending is justified. Nightly readings of one to two chapters, regular writing assignments and class lectures provide a platform for class work.

### HISTORY THROUGH LANGUAGE

This seminar provides insight into the origins and history of the English language, beginning with the concept of an Indo-European parent-language and its dispersal across India and Europe. Students discern how languages shift over time, subject to migrations, wars and cultural mergers, and how languages can evolve into creoles, dialects and eventually new languages. Students read Beowulf to get a feel for Old English literature and its Germanic roots, and selections from Canterbury Tales by Geoffrey Chaucer to experience Middle English. Finally, they study the Great Vowel Shift to understand one of the driving forces behind Modern English. More than just a literature course, students come away with an understanding of key linguistic principles and the formative role that history plays in the evolution of language.

# LATIN AMERICAN HISTORY

A survey of Latin American History from pre-Columbian times to the present, this seminar offers an opportunity to explore and study the historical, political, religious, socio-economic and artistic development of the people, cultures, and nations of Latin America from ancient times to the present. Emphasis is placed on the study of indigenous cultures and civilizations and the impact of the European Exploration and conquests of the 15th and 16th centuries. Students investigate the consequent impact of the Columbine discovery, the colonial periods, revolutions, rise of dictatorships, and modern political movements in Latin America, including globalization and development.

# METEOROLOGY

This block is an exploration of the fluid elements of earth, air and water. Topics covered include radiation, convection, conduction, and insulation. Consideration is given to how the vast fluid expanse of air and water is so closely linked to human activity on the surface of the Earth. This course is taught in conjunction with a week-long trip to New Hampshire. Students take various weather measurements and take note of meteorological conditions at different altitudes as they backpack up Mt. Lafayette's flank in the White Mountains.

#### ORGANIC CHEMISTRY

Topics include the development and organization of the Periodic Table, atomic structure, ions, oxidation reduction reactions, and bonding. Emphasis is placed on the drawing and naming of molecular structures, with a brief unit on carbon compounds, including major classes of hydrocarbons and substituted hydrocarbons. Laboratory activities are an integral part of this class.

### PHYSICS: MECHANICS

Mechanics is an investigation into motion and its applications in physics. Classroom demonstrations and hands-on experiments illustrate concepts of time, position, one-dimensional motion, velocity, acceleration and free fall. Students follow the developments of these ideas in history and their implications for everyday life today. Each student will also build a projectile launcher.

### **PHYSIOLOGY**

This seminar includes the study of human physiology as well as health and hygiene. Topics include endocrine, digestive, circulatory, excretory, immune and skeletal systems. Labs are an integral part of the course.

### PROBABILITY & STATISTICS

During the Probability and Statistics Main Lesson students learn about the mathematics behind the study of chance. Students will gain a historical perspective, and they study various applications of probability in the world. They learn how to collect and organize data, and they will make predictions about the future. Topics such as the Counting Principle, Permutations and Combinations, and Frequency Distribution re covered.

### **SOPHOMORE PLAY**

The sophomore class presents a full-length play at the end of the first semester. Everyone participates through a dramatic role and through help with the technical production.

# YEAR-LONG CLASSES

### **ELECTIVE SCIENCE: ACCELERATED CHEMISTRY**

This is a yearlong survey of chemistry concepts. Topics include atomic structure, the periodic table, chemical bonding, kinetic theory of gases, kinetics, equilibrium, and redox reactions. Theoretical concepts are investigated in the laboratory and by means of problem solving.

Prerequisite: 90 or above in 9th grade math and science courses, pending faculty approval.

# **ELECTIVE HISTORY: WORLD HISTORY SURVEY**

This year long course is a survey of World History spanning from 500 BCE to 1991 CE. Students are taught how to use the school's databases for debates and papers. Additionally, students are taught how to write thesis-driven research papers using MLA citation format. Students also engage in a series of debates and research and present a current event from the world. They are taught how to make a Power Point slideshow that accompanies their presentation. Emphasis focus is placed on developing public speaking skills.

# ENGLISH II: MYTH MICROFICTION AND THE MACROCOSM

Tenth graders are intrigued by polarities and transformation. They are also interested in comparing and contrasting ideas. They ask, "How do things change and interact? How is this story/event/idea similar to the next? How are they different?" Students endeavor to answer these questions in their reading and writing. In conjunction with the tenth grade focus on the study of ancient cultures, sophomores read Gilgamesh, Siddhartha, and myths from around the world, in order to examine the parable as a precursor to the medieval allegory and modern short story. At the same time, they enhance their vocabulary with a vocabulary workbook and the study of Greek and Latin roots, prefixes and suffixes.

# ENL II: ENGLISH AS A NEW LANGUAGE

ENL class serves international students for whom English is not a first language. The ENL instructor gives support in navigating the rigor of Main Lessons and other academic classes. International students will learn to express themselves effectively in written and spoken English. Students will receive English Language support instruction tailored to their curriculum, class work and homework. Students will also receive individualized coaching in English based on individual needs.

# FOREIGN LANGUAGE II: FRENCH, GERMAN, OR SPANISH

The second high school level of foreign language study builds on previously acquired skills in Level I. Students deepen their understanding of vocabulary as well as grammatical and communicative structures. The focus of this level is on expanding conversational skills in the form of dialogues, debates, interpretation and reporting of specific day-to day topics. These skills prepare students for a potential exchange with a student from a sister Waldorf School in France, Switzerland, Germany, Spain, Argentina or Chile. Students continue their study of poetry, songs and literature.

# LEADERSHIP SKILLS: HUMAN SEXUALITY, SOCIAL MEDIA LITERACY

The 10th grade covers topics such as how to build healthy and respectful relationships and other topics of human sexuality. We work in partnership with other organizations who help implement a hands-on and age-appropriate health and human sexuality program. For part of the year, students focus on Social Media Literacy with the Technology teacher.

### MATH: ACCELERATED GEOMETRY

This course develops geometry as a system of logical reasoning using clear definitions, postulates, theorems and corollaries to foster creative and critical thinking. Geometric elements, structures, and relationships are presented and integrated with algebra, trigonometry, logic and arithmetic. Deductive reasoning is introduced and applied to geometry to develop formal mathematical proofs. The topics of congruence, parallelism, quadrilaterals, circles, similarity, areas, regular polygons, coordinate geometry and locus are studied from geometric, algebraic and graphic perspectives. This course amply treats all the geometry necessary for achievement on the SAT I.

## MATH: ACCELERATED ALGEBRA II & TRIGONOMETRY

This is primer course for calculus. The concept of function is reviewed and expanded to include linear, polynomial, rational, exponential, logarithmic, and trigonometric functions. The graphing calculator is introduced and used throughout the course to operate with real-life data and applications. Students are taught to examine a situation from numerical, graphical and analytical perspectives. The last trimester deals with analytic trigonometry: fundamental identities, solving trigonometric equations, sum and difference formulas, Law of Sines and Law of Cosines. The course ends with sequences, series, sigma notation, and multivariable systems of equations and inequalities.

Prerequisite: Accelerated Geometry and Departmental Approval.

### PHYSICAL EDUCATION

The tenth grade physical education curriculum includes units in soccer, volleyball, team handball, basketball and softball. During these units, students learn skills, terminology, and rules. They also apply their knowledge and skills to game situations. Fitness and cardiovascular activities are presented throughout the year. Safe playing techniques and sportsmanship are always emphasized.



# ART BLOCKS

### FIBER ARTS: WEAVING

Students learn and develop understanding of textile processes and their history and context in today's times. They delve into the technical side of weaving. From calculating the usage of threads to setting up the loom and finishing their own designed weaves, students develop patience and fine motor skills. They also develop an understanding of materials through exploration and play.

## **VISUAL ART: EXPLORATION IN COLOR**

The 10th grade art curriculum builds on the previous year's foundations in drawing and printmaking and expands into a reintroduction of color. Students continue to hone their skills in life drawing and drawing from their imagination, and they enter into the creative process with an emphasis on painting and color theory.

### WOODWORKING: FRAMING

Students learn how to accurately measure and cut mortise and tenon joints to create a frame. Students will produce a rectangular wooden frame with four right-angled corners joined by mortise and tenon joints. The joints must hold together snugly; the frame must maintain its own integrity without glue. The frame must be cut accurately and have a unique design.

### WORLD DANCE

This movement block focuses on complimenting the academic program with experiential and body-based activities. Students learn world and folk dances, as well as partner dances such as swing, waltz, polka, and salsa.

# **ELECTIVES**

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# Junior Year

# MAIN LESSONS

### ACIDS AND BASES

This is a lab-based seminar focusing on the importance of acids, bases and salts in daily life. The properties and uses of acids and bases are explored. Advanced chemistry concepts include pH, pOH, Ka, Kb, Kw, salt hydrolysis and buffers.

### DANTE

In this seminar students read Dante's Inferno and consider the major themes in essays and in class discussions. Collaborative projects include creating a contemporary map of hell and choreographing a performance that includes drama, film and music.

### **ELECTRICITY AND MAGNETISM**

This Physics course will cover topics of study such as static electricity, fields, electrodynamics, series and parallel circuits, magnetic fields, natural magnetism, induction coils, electromagnets, generators and motors, AC and DC, and the electromagnetic spectrum. Emphasis is placed on direct and careful observation of phenomena. Students will build a windmill or a Van De Graaff Generator or a Tesla Coil.

## HISTORY THROUGH MUSIC

In this course students study the periods of music which have influenced music of the twentieth century. The periods covered are Medieval, Renaissance, Baroque, Classical, and Romantic.

### PARZIVAL

Parzival is an in-depth study of Wolfram von Eschenbach's *Parzival*, a sixteen-chapter Medieval romance written by a German knight at the start of the thirteenth century. In addition to discussing the story's allegorical significance, the class writes a series of essays about Parzival's outer and inner development. To produce notebooks with a medieval touch, students are given time to experiment with calligraphy and illuminated lettering. A field trip to the Cloisters and the Cathedral of St. John the Divine supplements the students' knowledge of the Middle Ages and helps students enter the world of the Middle Ages.

# PROJECTIVE GEOMETRY

Projective Geometry covers a historical view of the mathematical breakthroughs symbolizing new realms of thought. A comprehensive and hands-on study of projective transformations (including the geometrical experience of infinity) gives students a real experience of synthesizing new mathematical ideas.

### SHAKESPEARE

Students read one tragedy, one comedy and a selection of sonnets. Through dramatic presentations and intensive writing exercises, students engage the Bard, his cultural context, and performance values on several different levels.

### WORLD RELIGIONS

Students survey the world's major religions. Emphasis is placed on the development and essential tenets of Christianity, Judaism, Buddhism, Islam and Hinduism. This seminar encourages a willingness to explore new ideas, and teaches participants to respect different points of view.

### ZOOLOGY

Zoology is a survey course of the animal kingdom that compares and contrasts the major animal phyla. A trip to the Bronx Zoo provides the opportunity to observe and analyze animal behavior.

# YEAR-LONG CLASSES

# **ELECTIVE HISTORY: U.S. HISTORY**

This course is an in-depth survey of American History from pre-Columbian times to the present day. Students read primary documents and work on developing research skills using MLA citation. Student presentations about current events using a slide show and participation in formal debates is required. Two sections of this class are offered based on skill level.

### **ELECTIVE SCIENCE: COLLEGE BIOLOGY**

This course is based on a two semester introductory college biology course. All topics are viewed in relation to evolution. The units covered include chemistry, biochemistry, cell structure and function, Mendelian and molecular genetics, ecology, and animal form and function. Labs, both experiential and computer based, are an integral part of the curriculum. Students enrolling in this course have the opportunity to receive three credits from Adelphi University.

To receive credits, students will register with and pay a free to Adelphi University.

### **ELECTIVE SCIENCE: COMPUTER SCIENCE**

Students learn about many of the computer hardware components and issues that they may face should they choose a career as an IT Technician. Students learn how these components work and how to troubleshoot many common problems. We explore a wide variety of computing devices and their construction. We begin with a discussion of the types of computing devices that are most commonly used at home, on campus, or in the workplace. These devices include desktop and all-in-one computers as well as many mobile devices, including laptops, tablets, and smartphones. We look at some of the major computer components: motherboards, CPUs, storage devices, other internal components, peripheral devices, and various cables and types of connectors. Programming and Cybersecurity will be covered in the second half of the course.

#### **ELECTIVE SCIENCE: ENVIRONMENTAL SCIENCE**

The environmental science class is open to juniors and seniors. This interdisciplinary course involves geology, biology, chemistry, geography, political science and sociology. Students study the Earth and its resources, ecosystems, biogeochemical cycles, populations, land use, water use, energy resources, energy consumption, pollution, and global warming. Each aspect will be considered in relationship to human populations, human health, geopolitical issues and economics. Laboratory activities, both experiential and computer based simulations, will be an integral part of the course. Not offered 2021/2022

### **ELECTIVE SCIENCE: PHYSICS**

This yearlong course aims to develop conceptual principles in physics through reasoning and problem solving. Topics include kinematics in one and two dimensions, forces, Newton's Law of Motion, dynamics of uniform circular motion, work and energy, impulse and momentum, elasticity and simple harmonic motion, principle of linear superposition and interference phenomena, electromagnetic theory, and magnetism.

Prerequisite: Upper level math course, B+ average in all science courses, and teacher recommendation.

# ENGLISH III: LITERATURE OF THE JAZZ ERA AND THE AGE OF ROMANTICISM

In English III students read three novels, The Great Gatsby by F. Scott Fitzgerald, The Grapes of Wrath by John Steinbeck, Their Eyes Were Watching God by Zora Neale Hurston. The students also read Romantic and Modern Poetry. To enhance their appreciation of poetry, the students closely examine poetics in Sound and Sense, learning how poets craft works of enduring appeal. To polish their writing, the students read Strunk and White's The Elements of Style. In preparation for the SAT, students must take the PSAT in the fall. Students are also required to complete a 15-unit vocabulary workbook. Each student must also spend a day shadowing a professional and write up a career day report.

### ENL III: ENGLISH AS A NEW LANGUAGE

ENL class serves international students for whom English is not a first language. The ENL instructor gives support in navigating the rigor of Main Lessons and other academic classes. International students will learn to express themselves effectively in written and spoken English. Students will receive English Language support instruction tailored to their curriculum, class work and homework. Students will also receive individualized coaching in English based on individual needs.

# FOREIGN LANGUAGE III: FRENCH, GERMAN OR SPANISH

In their third year of foreign language learning, students conduct research using authentic texts, summarize and interpret texts, express opinions, and report and present their findings in written and spoken form. Students consolidate

previously learned skills, and they continue to incorporate newly acquired vocabulary, expressions and grammar into their writing and speaking.

# LEADERSHIP SKILLS: HUMAN RELATIONSHIPS, COLLEGE GUIDANCE

Students will have discussions about safe and consensual relationships. Sexual assault and how to report abuse, especially on college campuses, will be discussed as well. There will be conversations about various methods of contraception.

In the second half of 11th grade, the HS Guidance Counselor & College Advisor begins the college application process. Students will be introduced to the Common Application and Naviance and learn how these two platforms integrate into the timeline, of the application process. Students will gain an overview of standardized testing and begin the personal essay. Throughout the semester, the HS Guidance Counselor & College Advisor will also meet with students and families individually to build relationships and a personalized approach to the process, helping each student construct a college list, make a productive summer plan, secure teacher recommendation letters, and get organized for Senior Year.

### MATH: ACCELERATED PRE-CALCULUS

This is primer course for calculus. The concept of function is reviewed and expanded to include linear, polynomial, rational, exponential, logarithmic, and trigonometric functions. The graphing calculator is introduced and used throughout the course to operate with real-life data and applications. Students are taught to examine a situation from numerical, graphical and analytical perspectives. The last trimester deals with analytic trigonometry: fundamental identities, solving trigonometric equations, sum and difference formulas, Law of Sines and Law of Cosines. The course ends with sequences, series, sigma notation, and multivariable systems of equations and inequalities.

### MATH: ALGEBRA II AND TRIGONOMETRY

Algebra 2 and Trigonometry provides a continuation of the study of algebra. The year ends with a study of trigonometry. Topics covered include functions, systems of equations, polynomials, radicals, complex numbers, quadratic functions, rational functions, exponential and logarithmic functions, sequences and series, trigonometric functions, trigonometric identities and equations. The graphing calculator is used frequently in this course. This course amply treats all the material necessary for achievement on the SAT I.

# MATH: CALCULUS I

This is a one-year in-depth study of differential and integral calculus of functions of one real variable. Students will use calculus, (i.e. limits, various methods of differentiation and integration) to solve problems in physics, economics, business, and the life sciences. *Prerequisite: Accelerated Pre-Calculus and Departmental Approval* 

#### PHYSICAL EDUCATION

The eleventh grade physical education curriculum completes units in soccer, volleyball, team handball, basketball and softball. The students play recreational team games such as kickball and agility drills. During these units, students learn skills, terminology, and rules. They also apply their knowledge and skills to game situations. Fitness and cardiovascular activities are presented throughout the year. Safe playing techniques and sportsmanship are always emphasized.

# ART BLOCKS

During the junior year, each student will choose two of the three major art concentrations (visual art, fiber arts, woodworking). Each course is one semester long.

### FIBER ARTS: BOOKBINDING & PRINTING

Students learn to create their own innovative and skillfully designed books. They learn the art of being precise while not compromising on creativity. Students investigate what it means to make a book and ponder what kind of book would they want to create. They come to understand the materials through exploration, and they create their own unique ideas for their book. Students may choose to make tactile books, pattern books, illustration books or textile books. They learn the art of making a book with a strong message and identity of their own. They also create a portfolio folder.

## **VISUAL ART: PAINTING**

The 11th grade is a time for students to push new boundaries in art and explore color and technique in new ways. Having half the year to spend in the art studio, there is more time for the creative process to unfold and develop. Students continue working with drawing and painting, and dive more deeply into work with color and its expressive qualities.

## WOODWORKING: SCULPTURE

Students create original functional pieces of art using stone and/or metal and/or wood. Each student imagines, designs, and fabricates an object that functions as originally designed. Each student must be able to write or draw the project's concept and verbally describe it completely, including the steps for completion. The student must create a timeline that is agreed upon with the teacher and the project must be fully completed by the last day of class.

### **WORLD DANCE**

This movement class focuses on complimenting the academic program with experiential and body-based activities. In conjunction with their studies in Projective Geometry, students explore spacial dynamics

# **ELECTIVES**

### CHESS

We will cover the history of chess and the colorful personalities that have been associated with the game. Students will sharpen their play through practice. Students will study famous games, and they will learn the principles of basic and advanced strategies, tactical patterns, opening theory and endgame knowledge. The course will promote skills in decision making, discipline, logic, and sportsmanship. Students will also be encouraged to participate with other schools in friendly competitions and tournaments.

### CHORUS

Students in the Chorus sing a wide range of music and experience a variety of genres. Self-expression becomes a window into communal music-making and into other cultures. The process of preparing music is as important as the final result; students perform at a variety of assemblages.

### **ELEMENTARY CHINESE**

An elementary-level, introductory Chinese language course that provides the foundational knowledge for pronunciation, basic everyday conversation, basic grammatical rules, introductions to basic cultural norms and preferences that govern language use. Using a communicative approach, this elective is meant to situate oral and written language in real-life contexts and promotes learner-centered, interactive classroom activities.

### MATH LAB

The math lab provides students from all high school math courses an opportunity to get extra practice mathematical course topics. Students can also use this elective to do math homework and get assistance as needed from a math teacher. Math lab is offered four days per week.

# MODEL UNITED NATIONS

The aim of the Model U.N. is for students to learn about how the United Nations functions and the role it plays in global politics. The students assume the roles of delegates of an actual U.N. member nation. In those roles the students learn about global issues, how to write resolutions using the United Nations format, and how to use consensus decision making. The class culminates with a four-day trip to New York City to attend the National High School Model U.N. conference, where students interact with their peers from around the world.

### **MULTI-GENRE BAND**

The multi-genre band offers an opportunity to collaborate with your peers and expand your musical horizons. The goal of this band would be to take

songs from a range of artists and genres, understand how they were written, arranged, and produced, and then perform them with our own unique spin! This is a great space to work on improvisation, ear training, composition/arranging, and songwriting. All instrumentalists are welcome!

### MUSIC PERFORMANCE

This class is for students who want to try out some new instruments and be a part of a musical group. Units may include drum circles, learning basic chords on guitar or ukulele, singing in harmony, and writing songs. No previous musical experience is required.

#### ORCHESTRA

The orchestra welcomes students who are proficient in playing an instrument (string, wind, horn, or percussion) and who can read music. The repertoire will cover a range of selections including: Western "Classical" music, theater and film scores, world and folk music as well as contemporary music. the High School orchestra will perform at School functions, assemblies, and concerts. Students in orchestra will continue building skills on their instruments and on working as an ensemble.

### STRATEGIC GAMING MECHANICS

During this course, students will learn the basic mechanics of many tabletop games. Different tactics will be explored as the group cycles through many types of games such as classic board games and various card games with unique deck structures. Students will build skills in communication, conflict resolution, resource management, logic, deductive reasoning, and foresight while having the opportunity to experience hobbies that facilitate unplugged entertainment.

### **WEB DESIGN**

In today's world, web pages are the leading medium for sharing ideas and information. Learning to design websites is an incredibly useful skill to have for any career path, even if a chosen occupation is not specifically in the web design field. This class is designed for beginners with no previous background in Web Design or Computer Science. The course will be highly visual, dynamic, and interactive. Students will be able to use their own personal interests and creativity to drive their development process.

### YEARBOOK

The yearbook staff is responsible for the complete design and production of the School's yearbook. Students in grades 9 through 12 design pages, take photographs, edit copy, plan and organize the yearbook and prepare it for printing. Students gain valuable real-world experience as they meet deadlines, work cooperatively and utilize their leadership skills to form a cohesive group to manage and complete this large project.



# Senior Year

# MAIN LESSONS

## AMERICAN TRANSCENDENTALISTS

Transcendentalism, a nineteenth-century spiritual and intellectual movement, gave birth to American literature and allowed thinkers and writers to break free from their European forbears. Through examination of seminal American literary figures such as Emerson, Thoreau, Fuller and Whitman, this course introduces students to key concepts such as self-reliance, the oversoul, and presence of the divine in nature. Taking inspiration from Emerson and Thoreau, students learn the basics of argumentation and draft essays expressing personal core values.

### **ECONOMICS**

This course is meant to introduce students to the study of economics. It serves as an overview of the history of economic thought. Students will read primary documents from important philosophers such as Adam Smith, John Stuart Mill, Karl Marx, John Maynard Keynes, and Milton Friedman to gain an understanding of how economic philosophies effect the world and its people. There is a special emphasis on the causes and consequences of the global economic crisis of 2008 with an eye towards the future of economic thought in the Twenty-first Century. Students are responsible for writing an MLA-formatted research paper on an economic topic of their choice.

# ANTI-RACISM AND THE TRANSFORMATION OF MALCOLM X

Beginning with colonialism and ending with the present, we cover the history of the exploitation of people of color in America and the racist ideas justifying racist policies. Students are required to present an article from The New York Times Magazine's 1619 Project, which examines the effects of historical racism on the present day America. As homework, students are also required to read The Autobiography of Malcolm X as told to Alex Haley and discuss in their journals this controversial leader's transformation from a criminal and inmate, to anti-White separatist, to provocative proponent of anti-racism.

### **EVOLUTION**

In this Biology main lesson students are afforded an introduction to the fundamental ideas of conventional evolutionary theory. Students focus on the increasing complexity exhibited by the organisms of the various phyla beginning with the porifera and ending with the chordates. Classical Darwinism is compared to other ideas including modern evolutionary theory.

#### HISTORY OF AFRICA

This course is a survey of African History that affords the students a broad, general background of African History to ground their knowledge of the role of Africa in the world today. Emphasis is placed on the different cultures that arose on the continent, from ancient times, through the colonial period and up to the present. Students gain a greater appreciation of the contributions and struggles of the African people by completing an artistic project inspired by current events in Africa as their final project for the course. Lectures and a reading packet serve as the basis of student learning.

### OPTICS

In this Physics class topics of study include virtual and reflected spaces, refraction, diffraction, parallax, color, lenses, shadows, mirages, the rainbow, optical sky phenomena, eye physiology, prisms, lenses, Newton's and Goethe's color theories, and phenomenology. Emphasis is placed on an experiential and experimental look at some of the most interesting phenomena in the history of science—those dealing with light in all its manifestations. Each student will build a pinhole camera and will develop photographs in the dark room.

### RUSSIAN LITERATURE

Students read a selection of Russian poetry and prose works by authors such as Pushkin, Gogol, Tolstoy, and Solzhenitsyn. Biographies of these authors and others are studied.

### SENIOR PLAY

The entire senior class spends part of the second semester producing a play to be performed during the week before graduation. Everyone participates in recreating a dramatic role as well as holding a position backstage.

### SYMPTOMATOLOGY

This is a survey course of the political issues that shape and define the current political situation of the world. Some of these topics include radicalization of Islam, treatment of prisoners of war, politics of oil, the Israeli Palestinian conflict, global terrorism, and domestic surveillance. Students begin to perceive the deeper impulses that run through events or even epochs. This is a discussion-driven course that prepares students for active participation and understanding of current events issues, ingredients for success in advanced university courses.

# YEAR-LONG CLASSES

# **ELECTIVE HISTORY: U.S. HISTORY**

This course is an in-depth survey of American History from pre-Columbian times to the present day. Students read primary documents and work on developing research skills using MLA citation. Student presentations about current events using a slide show and participation in formal debates is required. Two sections of this class are offered based on skill level.

### **ELECTIVE SCIENCE: COLLEGE BIOLOGY**

This course is based on a two semester introductory college biology course. All topics are viewed in relation to evolution. The units covered include chemistry, biochemistry, cell structure and function, Mendelian and molecular genetics, ecology, and animal form and function. Labs, both experiential and computer based, are an integral part of the curriculum. Students enrolling in this course have the opportunity to receive three credits from Adelphi University.

To receive credits, students will register with and pay a free to Adelphi University.

## **ELECTIVE SCIENCE: COMPUTER SCIENCE**

Students learn about many of the computer hardware components and issues that they may face should they choose a career as an IT Technician. Students learn how these components work and how to troubleshoot many common problems. We explore a wide variety of computing devices and their construction. We begin with a discussion of the types of computing devices that are most commonly used at home, on campus, or in the workplace. These devices include desktop and all-in-one computers as well as many mobile devices, including laptops, tablets, and smartphones. We look at some of the major computer components: motherboards, CPUs, storage devices, other internal components, peripheral devices, and various cables and types of connectors. Programming and Cybersecurity will be covered in the second half of the course.

### **ELECTIVE SCIENCE: ENVIRONMENTAL SCIENCE**

The environmental science class is open to juniors and seniors. This interdisciplinary course involves geology, biology, chemistry, geography, political science and sociology. Students study the Earth and its resources, ecosystems, biogeochemical cycles, populations, land use, water use, energy resources, energy consumption, pollution, and global warming. Each aspect will be considered in relationship to human populations, human health, geopolitical issues and economics. Laboratory activities, both experiential and computer based simulations, will be an integral part of the course. Not offered 2019/2020

### **ELECTIVE SCIENCE: PHYSICS**

This yearlong course aims to develop conceptual principles in physics through reasoning and problem solving. Topics include kinematics in one and two dimensions, forces, Newton's Law of Motion, dynamics of uniform circular motion, work and energy, impulse and momentum, elasticity and simple harmonic motion, principle of linear superposition and interference phenomena, electromagnetic theory, and magnetism.

Prerequisite: Upper level math course, B+ average in all science courses, and teacher recommendation.

### ENGLISH IV: SEARCH FOR MEANING

In this course students read, discuss, and respond to works of literature from the last century, with a focus on the question: what does it mean to be human in this world? Through the readings we travel to various places and times to get a sense of different peoples and their perceptions of the world they inhabit. Books read are A Thousand Splendid Suns, Like Water for Chocolate, Persepolis, Man's Search for Meaning, and I Know Why the Caged Bird Sings. A lot of writing—both creative and analytical—is created and attention is paid to editing and revising each piece. The senior speech (a requirement for graduation) is developed and honed with help from peers and presented during a Friday high school assembly.

### ENL IV: ENGLISH AS A NEW LANGUAGE

ENL class serves international students for whom English is not a first language. The ENL instructor gives support in navigating the rigor of Main Lessons and other academic classes. International students will learn to express themselves effectively in written and spoken English. Students will receive English Language support instruction tailored to their curriculum, class work and homework. Students will also receive individualized coaching in English based on individual needs.

# FOREIGN LANGUAGE IV: FRENCH, GERMAN OR SPANISH

Students review and survey topics of grammar, literature, and language. Emphasis is placed on modern and contemporaty cultures. The year culminates in the preparation of a play for members of the school community.

# LEADERSHIP SKILLS: COLLEGE ADVISING

The HS Guidance Counselor & College Advisor meets with the senior class weekly to guide them through the college application process. The class serves as a touch point to guide seniors through the Common Application, personal essay, additional writing supplements and application requirements. Other goals include building a resume, compiling supplemental materials, preparing for interviews, and networking with college representatives. In addition to this course, the HS Guidance Counselor & College Advisor will have regular meetings with each student for a more individualized approach.

## MATH: CALCULUS I

This is a one-year in-depth study of differential and integral calculus of functions of one real variable. Students will use calculus, (limits, various methods of differentiation and integration) to solve problems in physics, economics, business, and the life sciences.

Prerequisite: Accelerated Pre-Calculus and departmental approval

# MATH: CALCULUS II

Calculus II is a continuation of Calculus I. The course begins with a review of limits and differentiation. The course continues with the study of integration, integration techniques and applications, differential equations, infinite series, conics, polar coordinates and vectors.

Prerequisite: Calculus I and Departmental Approval.

### MATH: STATISTICS AND BUSINESS MATH

This course gives students the opportunity to explore topics such as statistics, business math, and financial mathematics. Students will learn to apply math skills to interest and loans, business modeling, consumer credit, and budgeting.

### PHYSICAL EDUCATION

The twelfth grade physical education curriculum completes units in soccer, volleyball, team handball, basketball and softball. During these units, students learn skills, terminology, and rules. They also apply their knowledge and skills to game situations. Fitness and cardiovascular activities are presented throughout the year. Safe playing techniques and sportsmanship are always emphasized.

# ART BLOCKS

During the senior year, each senior chooses to concentrate on conceiving, executing and completing a Senior Project in either fiber arts, visual art, or woodworking. The Senior Project culminates in an art exhibition in the High School Lobby and Student Room.

## FIBER ARTS

Students in their senior year create their own identity and portfolio as an emerging artist or designer. They expand their skills and efficiency as a maker while also forming a project that is unique to their identity or life experience. They ideate, play, sketch, sample and create a finished piece or a product that sets them apart and launches them in their creative career.

## VISUAL ART

Seniors who choose to concentrate on fine art, focus on one technique such as painting, drawing, printmaking, clay sculpture or stained glass. After selecting a theme, students also have the option of combining more than one of these media for their work during the year. The work is presented to the community in May at an exhibit at the school.

### WOODWORKING

Students imagine, design, and fabricate an object, or objects, that function(s) as originally designed. Size and scope of the project is quite large and appropriate for a year-long culminating senior art project. All aspects of the work must be completely thought-out with different perspectives considered.

# **ELECTIVES**

#### CHESS

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sion making, discipline, logic, and sportsmanship. Students will also be encouraged to participate with other schools in friendly competitions and tournaments.

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#### MUSIC PERFORMANCE

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