



Frederica Academy

Upper School Course Descriptions

2021-2022

Upper School Motto

“To whom much is given, much is expected.”

Frederica Academy Mission

To maximize each student’s potential and prepare him or her for college and adult life through the development of mind, body, and spirit.

Frederica Academy

AP & HONORS

COURSE REGISTRATION REQUIREMENTS

ENGLISH DEPARTMENT	<p>Honors World Literature II: Instructor of course will share details regarding Honors enrollment within the first 4.5 weeks of school.</p> <p>AP English Language and Composition: minimum average of 90 in World Literature II; minimum average of 87 in Honors World Literature II.</p> <p>AP Literature and Composition: minimum average of 87 in AP English Language and Composition; minimum average of 87 in American Literature.</p>
HISTORY DEPARTMENT	<p>AP World History: minimum average of 90 in World History I.</p> <p>AP US History: minimum average of 90 in World History II; minimum average of 82 in AP World History.</p> <p>AP Comparative Government & AP US Government: as approved by US Administration.</p>
MATH DEPARTMENT	<p>Honors Algebra I & Honors Geometry: Instructor of course will share details regarding Honors enrollment within the first 4.5 weeks of school.</p> <p>Students who wish to take two non-elective Math classes (Geometry and Algebra II) simultaneously, must have a minimum average of 98 and a teacher recommendation.</p> <p>AP Calculus AB: minimum average of 90 in Honors PreCalculus.</p> <p>AP Statistics: minimum average of 90 in either Algebra II or Honors PreCalculus. Seniors cannot take AP Statistics in lieu of PreCalculus, Calculus or AP Calculus.</p>
SCIENCE DEPARTMENT	<p>Honors Biology & Honors Chemistry: Instructor will share details regarding Honors enrollment within the first 4.5 weeks of school.</p> <p>AP Biology & AP Chemistry (Junior Year): minimum average of 95 in Biology & Chemistry; minimum average of 90 in Honors Biology & Honors Chemistry.</p> <p>AP Physics I (Senior Year): minimum average of 85 in AP Biology or AP Chemistry.</p>
WORLD LANGUAGES DEPARTMENT	<p>9th Grade Honors World Language: minimum average of 93 in 8th grade Spanish or Latin.</p> <p>AP Spanish Language: minimum average of 90 in Honors Spanish IV.</p>

TRANSFER STUDENTS

In order to enroll in Honors and AP classes, transfer students must meet Frederica Academy standards in order to register.
Transfer students may be asked to take a placement exam in order to ensure correct placement.

PARENT/STUDENT REQUESTS

If a student or parent requests placement in an AP or Honors course and the student does not meet the requirements, then a meeting with the Upper School Administration must take place prior to enrollment in the class.
Students and parents will be required to sign a form that expresses that placement is against the recommendation of the school.

FREDERICA ACADEMY UPPER SCHOOL COURSE DESCRIPTIONS

ENGLISH

ENGLISH CORE OFFERINGS

English 9 (Full Year) - 9th Grade

In this course, students will examine texts from around the world, often translated into English editions. Students will develop their analytical skills of the major literary genres including, but not limited to prose, poetry, and drama. In addition to expanding their vocabulary through composition, students will conduct research and provide analytical responses about the literature they read as they develop their persuasive writing skills.

English 10 (Full Year) - 10th Grade

In this course, students will examine texts from around the world, often translated into English editions. Students will develop their analytical skills of the major literary genres including, but not limited to prose, poetry, and drama. In addition to expanding their vocabulary through composition, students will conduct research and provide analytical responses about the literature they read as they develop their persuasive writing skills

(Honors Designation Available - See AP and Honors Requirements)

American Literature (Full Year) - 11th Grade

Beginning with the Puritans and working forward to modern literature, American Literature is a course designed to survey some of the most renowned authors of our country, to analyze some of the most compelling issues of our times, and to evaluate how our country's history has influenced and shaped the stories defining the times, places, and peoples of its nation. Our country is a land of many narratives and a multitude of voices. From the very beginning—the folklore, sermons, pamphlets, dairies, poetry, speeches, letters, short stories, novels, newspapers, and nonfiction—America's voice has been one defined by persuasion. Persuasion is built upon knowing your subject, your audience, and the form of discourse. Understanding how language conveys meaning is essential in analyzing literature and in writing about literature. Therefore, in addition to evaluating good writing, we will concentrate on strengthening writing skills and grammar, focusing on analytical essays supported with textual evidence and analysis.

AP English Language and Composition (Full Year) - 11th Grade

Students in the Advanced Placement English Language and Composition course read, analyze, and work with literature, essays, letters, speeches, and images to deepen their awareness of rhetoric and of how language works to construct persuasive arguments. Students should be prepared to read and analyze a wide range of texts and to write prose of sufficient richness and complexity to communicate effectively with mature readers.

(Prerequisite: See AP and Honors Requirements)

Literature and Composition (Full Year) - 12th Grade

This senior level English course blends composition and literature into a cohesive whole. Students will write critical and comparative analyses of selected literature, continuing to develop and strengthen their skills for college level English classes.

AP English Literature and Composition (Full Year) - 12th Grade

AP Literature and Composition engages in careful reading and critical analysis of literature; our literary analysis will consider a writer's style and the structure of the work. Students are expected to justify their interpretations of the readings by references to details and patterns in the text, to compare their interpretations with those proposed by others (teachers, classmates, and literary scholars), and to be prepared to modify their own interpretations as they learn more and think more. Writing is a major emphasis in this course, and most of it will focus on analytic essays about literature and AP test preparation. The aim of the course is to prepare students for both the College Board exam in May and for the rigors of college work.

(Prerequisite: See AP and Honors Requirements)

WORLD LANGUAGES

SPANISH OFFERINGS

Spanish I (Full Year)

The first year course in Spanish language is based on the building blocks of the language. This course encourages students to use the vocabulary, language structures, and grammar they have learned and to apply the concepts through projects, skits, presentations, interviews, and story creation. This course also exposes students to Hispanic culture through readings and video presentations.

Spanish II (Full Year)

Students will learn theme-based vocabulary and will integrate that vocabulary with grammatical concepts in real-life situations through writing stories, creating projects, performing skits, giving formal and informal presentations, and through image descriptions. The class is taught exclusively in Spanish and students are expected to participate orally every class period.

(Honors Designation Available - See AP and Honors Requirements)

Spanish III (Full Year)

In Spanish III, students will continue to develop their communicative, written, and listening skills. Students are formally introduced to the study of Hispanic literature and culture. They use complex structures in Spanish and move from concrete to more abstract concepts. Students develop the ability to discuss topics related to historical, art, and contemporary events through projects, videos, and movies, using only Spanish.

(Honors Designation Available - See AP and Honors Requirements)

Honors Spanish IV (Full Year)

The fourth year in the Spanish sequence is designed to foster mastery of the remaining grammar structures. Spanish is used almost exclusively as the medium of communication in the classroom. Students will work on improving reading comprehension and writing skills at a more advanced level. Hispanic writers, YouTube videos, movies, and a multimedia text will be used to examine cultural topics.

(Prerequisites: Spanish III)

AP Spanish Language and Composition (Full Year)

The AP Spanish Language and Culture course, which is designed around themes, takes a holistic approach to language proficiency. Students are encouraged to learn language structures and to apply them in context through meaningful conversation. Students are required to take the AP exam at the conclusion of this course.

(Prerequisite: Honors Spanish IV)

LATIN OFFERINGS

Latin I (Full Year)

The first year of Latin introduces students to the fundamentals of the Latin language through comprehensible oral and written input. The stories we cover will also introduce some facts about the ancient Roman world. Over the course of the year, students should acquire a basic working vocabulary, grammar, and syntax as they practice reading, writing, speaking, and listening in Latin.

Latin II (Full Year)

This course builds on the previous one in developing a broader working vocabulary and facility with the language through exposure to comprehensible oral and written input. Readings will continue to introduce students to the culture and history of the ancient Roman world, primarily through the medium of Greco-Roman mythology.

(Prerequisite: Latin I, Honors Latin II Available - See AP and Honors Requirements)

Latin III (Full Year)

In this course students continue to be exposed to comprehensible oral and written input, including intermediate-level texts that are more native-like in their vocabulary and syntax. These texts may cover topics in history and mythology, not only of Greco-Roman antiquity, but also of other cultures and eras within the broader Latin tradition.

(Prerequisite: Latin II, Honors Latin III available- See AP and Honors Requirements)

Honors Latin IV (Full Year)

This course continues in the same vein as Latin III, including a greater share of Latin texts from different eras, but with more attention paid to the nuances of style, genre, rhetoric and meter, and to the specific characteristics of individual authors. We will also consider the historical context of these authors and their works, as well as their legacy. By the end of the year, students should have the skills they need to continue their Latin study on their own, using the resources available to them, and be able to discuss the scope of the Latin literary tradition and its importance to the modern world.

(Prerequisite: Latin III)

MATHEMATICS

MATHEMATICS CORE OFFERINGS

Algebra I (Full Year)

This course is a study of the basic algebra concepts, with emphasis on simplifying numeric and algebraic expressions, solving equations, factoring techniques, and solving various types of word problems, including but not limited to percents and proportions. It is also an introduction to functions and graphing both linear and quadratic equations and inequalities. Solving and graphing systems of equations and inequalities are also introduced, as well as operations with radical and rational expressions. The final concepts deal with quadratic functions and formulas readily used to be successful in Geometry. *(Honors Designation Available - See AP and Honors Requirements)*

Geometry (Full Year)

This is a two-semester sequential course that integrates the study of plane and solid geometry. The course reinforces the concepts of intermediate algebra through the solution of geometric problems. Units of study include inductive and deductive reasoning, formal proofs, angle relationships, perpendicular lines, parallel lines and planes, congruent triangles, properties of polygons and special quadrilaterals, similar polygons, similarity and right triangles, right triangle trigonometry, circles, areas of polygons and circles, surface area and volume of solids, and coordinate geometry. *(Prerequisite: Algebra I, Honors Designation Available - See AP and Honors Requirements)*

Algebra II (Full Year)

This is a two-semester sequential course that reviews and extends the concepts and skills obtained during the Algebra I and Geometry series. This course includes simplifying expressions, solving equations and inequalities, sequences and series of real numbers, linear functions and relations, systems of linear equations in two and three variables, polynomials and their factors, rational algebraic expressions and equations, radical expressions and equations, quadratic equations, complex numbers, rational and irrational exponents, logarithms, quadratic relations and systems, conics and basic trigonometric functions, and operations to help prepare the student for the next level of mathematics.

(Prerequisites: Geometry, Honors Designation Available - See AP and Honors Requirements)

PreCalculus (Full Year)

PreCalculus is a two-semester sequential course that is designed to prepare students for college mathematics courses. Topics included are polynomial functions and their graphs, inverse functions, variations, rational functions and their graphs, complex numbers, exponential functions and their graphs, logarithmic functions and their graphs, systems of linear equations in two and three variables, systems of inequalities in two variables, conic sections, trigonometric functions and identities, triangular applications, and vectors.

(Prerequisite: Algebra II)

Honors PreCalculus (Full Year)

Honors PreCalculus is a two-semester sequential course aimed at junior students and which is designed to prepare students for AP Calculus or Calculus. Topics included are polynomial functions and their graphs, rational functions and their graphs, complex numbers, exponential functions and their graphs, logarithmic functions and their graphs, inverse functions, variations, systems of linear equations in two and three variables, systems of inequalities in two variables, conic sections, trigonometric functions and identities, triangular applications, vectors, polar coordinates, sequences and series, permutations, combinations, and probability.

(Prerequisite: Honors Algebra II)

Calculus (Full Year)

This two-semester sequential course is an overview of Differential and Integral Calculus designed to prepare the student for College Calculus. Emphasis is placed on techniques for finding limits, derivatives and integrals of functions.

(Prerequisite: PreCalculus)

AP Calculus AB (Full Year)

AP Calculus AB is a two-semester course that adheres to the course requirements set forth by the Advanced Placement division of the College Board. It is a sequential course of Differential and Integral Calculus. Topics included are a review and extension of basic precalculus concepts, algebraic functions and their graphs, limits, continuity, the derivative of a function, differentiation of algebraic and trigonometric functions, implicit differentiation, related rates, optimization and other applications of derivatives, L'Hôpital's Rule, differential equations, anti-differentiation, definite integrals, integration and techniques of integration, and applications of integrals. This course is equivalent to a Calculus I college course.

(Prerequisite: Honors PreCalculus, See AP and Honors Requirements)

AP Calculus BC (Full Year)

AP Calculus BC is a two-semester course that adheres to the course requirements set forth by the Advanced Placement division of the College Board. It is a sequential course of Differential and Integral Calculus. Topics included are limits and continuity, defining and calculating derivatives, applications of the derivative, the integral, Fundamental Theorem of Calculus, differential equations, applications of the definite integral, sequences, L'Hôpital's Rule, improper integrals, series, and parametric and polar functions. As this course includes all topics from AP Calculus AB, those topics will be covered at a faster pace so that more time may be spent on the additional topics that are covered only in the BC course. This course is the equivalent to a Calculus II college course.

(Prerequisite: AP Calculus AB, See AP and Honors Requirements)

MATHEMATICS ELECTIVES

AP Statistics (Full Year)

AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. Students are introduced to concepts and tools for collecting, analyzing, and drawing conclusions from data. The four themes of the course are: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Specific topics include techniques to explore, visualize, and describe data, modelling distributions of data, describing relationships between variables, designing studies (sampling, surveys, and experiments), probability rules and distributions, random variables, normal distribution, sampling distributions, sample proportions and sample means, confidence intervals, tests of significance, comparing two populations or groups, inference for distributions of categorical data, and linear regression.

(Prerequisite: Algebra II, See AP and Honors Requirements)

SCIENCE

SCIENCE CORE OFFERINGS

Biology (Full Year)

Biology is a full year course in the field of science concerned with the study of living organisms. During the school year the students will investigate life on all levels through study, observation, and experimentation. A significant portion of the course will be devoted to work in the laboratory. Study includes organic chemistry, the cell, DNA, genetics, evolution, viruses, bacteria, protists, fungi, plants, animals, ecology, and environmental biology.

(Honors Designation Available - See AP and Honors Requirements)

Chemistry (Full Year)

Chemistry is a yearlong course that introduces chemistry to students. It presents basic chemistry concepts without rigorous mathematics, although basic math skills are needed. The student will have a solid chemistry background necessary to continue in science. Topics include basic atomic theory, the periodic law, periodic relationships, basic bonding and molecular geometry, mole theory, stoichiometry, basic gas laws, solutions, thermochemistry, equilibrium, and acids and bases.

(Honors Designation Available - See AP and Honors Requirements)

AP Biology (Full Year)

AP Biology is a year long course designed to mimic the introductory college Biology curriculum. The subject matter is similar to the regular Biology class, but in greater depth and detail, with special emphasis on organic chemistry, molecular biology, DNA, genetics, evolution, ecology, and environmental biology. A significant portion of the course will be devoted to work in the laboratory. A test is taken at the end of the year to determine possible exemption of the introductory course in college.

(Prerequisite: Chemistry - See AP and Honors Requirements)

Physics (Full Year)

The Physics course is designed to provide the student with a broad knowledge of the principles of classical physics and the ability to solve problems. The first semester concentrates on Newtonian Mechanics. Newton's laws governing force and motion and the laws of conservation of momentum and energy serve as the foundation for solving problems. Topics involving projectile and circular motion, gravitation, impulse and momentum, energy and work, and machines are covered. The second semester concentrates on electricity and magnetism, wave behavior, sound and light, and quantum theory.

(Prerequisite: Algebra II)

AP Physics 1 (Full Year)

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

(Prerequisite: Algebra II, - See AP and Honors Requirements)

AP Chemistry (Full Year)

AP Chemistry is a course designed to present the equivalent of a one - year freshmen College Chemistry Course. It offers the opportunity to earn college credit (determined by AP score) as well as high school credit. Students will gain an in-depth understanding of the fundamentals of chemical and mathematical problem solving. At least 25% of the course will involve laboratory activities that would be comparable to a college level laboratory experience. The subject matter is similar to the regular Chemistry class, but in greater depth and detail, with special emphasis on stoichiometry, thermodynamics, atomic theory, bonding and molecular shapes, acids and bases, chemical equilibrium, and electrochemistry. Emphasis is placed on depth of understanding of a topic, rather than the breadth of topics.

(See AP and Honors Requirements)

SCIENCE ELECTIVES

Anatomy (Semester)

Anatomy is a one semester class in which each student will learn about the human body and its mechanisms, from cells to tissues to organs to systems to that of the body as a whole. Each body system and its corresponding anatomical terminology are covered. Clinical terms and pathology for each system are reviewed as well. This is an excellent course for students interested in biology and medicine and planning on investigating those fields in college. A significant portion of the course will be devoted to work in the laboratory.

Astronomy (Semester)

Astronomy is a one semester survey class in which students will learn about planets, stars, galaxies, the universe, nebulae, pulsars, quasars, supernovas, telescopes, absorption spectra, gravity, the sun, earth's movements, seasons, star charting, and other astronomical phenomena. Students will follow an online textbook and spend some time in the laboratory, as well as spend several nights each semester using telescopes and binoculars for sky observation. This course is highly recommended for students interested in pursuing college study in the sciences.

Geospatial Technology (Semester)

Fundamentals of Geospatial Technology is a one semester course. This course will teach students the basics of the useful techniques of Global position systems and remote sensing. Students will learn key concepts of Geographic Information Systems (GIS), Remote Sensing, Global Navigation Satellite Systems (GNSS) Global Positioning System (GPS), and Location Based Services (LBS)

Marine Biology (Semester)

Marine Biology is a one semester survey class in which students will learn about ocean life, the ocean floor, seawater, marine plants and animals, marine ecology, shoreline biology, and marsh/estuary biology. Students will spend a significant portion of time in the laboratory, as well as attending several off campus activities that investigate our local environment, ecology, and area science labs and research facilities.

SOCIAL SCIENCES

SOCIAL SCIENCE CORE OFFERINGS

World History I (Full Year)

This course focuses on early and classical civilizations of Asia, Africa, Europe, and the Americas, through approximately 1500 C.E. Key topics include the emergence of civilization and the development of agriculture, economics, political systems, imperialism, literature, philosophy, and religion. The course will also focus on the study habits, critical thinking, and writing skills necessary for success in future history courses.

World History II (Full Year)

This tenth grade history course examines the modern world from 1500 C.E. to the present. Topics will include: early modern economic systems and the age of kings; political revolutions; industrialization; imperialism; nationalism; the world wars; decolonization; the role of international organizations, and the world in the twenty-first century. Special emphasis is given to the development of argumentative essay writing and historical thinking skills like synthesis, contextualization and point-of-view.

AP World History: Modern (Full Year)

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

(See AP and Honors Requirements)

United States History (Full Year)

This eleventh grade history course covers the history of the United States from the beginning of English settlement in North America to the modern era. Political, economic, and social factors that have shaped the pattern of life in, and the institutions of the United States are given careful consideration. Special emphasis is given to the development of argumentative essay writing and historical thinking skills like synthesis, contextualization and point-of-view.

AP U.S. History (Full Year)

AP U.S. History is a challenging course that provides an opportunity for advanced students to engage in college-level study of American history, with emphasis on critical and analytical thinking, persuasive and analytical writing, interpretation and analysis of primary source

documents and historical data, and the philosophy and methodology of history. It is also an opportunity for students to develop their understanding of American history for effective civic participation. Students may earn college credit for the course if they are successful on the AP exam taken in May, depending on the policies of their chosen college. Solid reading and writing skills and the willingness to devote considerable time to homework and study are necessary for success. Students are expected to become independent, active learners, and to accept responsibility for reading and understanding a variety of readings outside of class.

(See AP and Honors Requirements)

SOCIAL SCIENCE ELECTIVES

AP US Government & Politics (Semester)

AP Government and Politics is a semester course designed to provide students with an analytical perspective on government and politics in the United States, culminating in the AP National Exam given in May. In this course, students will examine the key concepts leading to the development of the U.S. government as well as critically examine the political and government structures and policy-making bodies in the United States, with an eye to gaining a fuller understanding of the rights and duties associated with effective American citizenship.

(See AP and Honors Requirements)

AP Comparative Government and Politics (Semester)

AP Comparative Governments is a semester course designed to introduce students to the rich diversity of political life outside the United States, culminating with the AP Exam given in May. Students may earn college credit for the course, depending on the policies of their chosen college. The course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues. Students compare and contrast political institutions and processes across six countries (Great Britain, Mexico, Russia, Iran, China, and Nigeria) and analyze and interpret data to derive generalizations. Topics include: Introduction to Comparative Politics; Sovereignty, Authority, and Power; Political Institutions; Citizens, Society, and the State; Political and Economic Change; Public Policy.

(See AP and Honors Requirements)

Economics & Finance (Semester)

This is a semester long survey class of the principles of personal finance and the economic foundations of our increasingly complex financial world. Four major sections of our economic and financial world are studied: Investment techniques and terms, Credit and Mortgages, the Federal Reserve and Monetary/Fiscal Policy and Federal Tax Code/Insurance. A final project includes the creation of a Mutual Fund and a presentation on the performance of the investments that have been tracked for a 14 week period.

History of Art (Full Year)

Art History is intended as a two semester course introducing Western art and the art of other world cultures. First semester begins with the Paleolithic Era and continues through the Italian Gothic Period; the second semester begins with the Italian Renaissance and continues through the 21st century. Students may choose to take the semesters independently but are encouraged to take the entire year to gain a deeper appreciation of cross-cultural influences.

Psychology (Semester)

Psychology is a one-semester class in which students will study the behavior and mental processes of humans and how they are affected by a person's physical and mental states and environment. Topics include the various personality theories including Freudian theory, the biology of the brain, psychological disorders and treatment, and social and cultural psychology. Psychology is an introductory survey course providing a basic overview of all aspects of psychology rather than going into depth in any particular topic.

COMPUTER SCIENCE

JavaScript I/II

Introduction to Computer Science in JavaScript teaches the foundations of computer science and basic programming in JavaScript. Beginning with how a computer and the binary number system works, students get a foundation to move on to learn basic programming. This course introduces students to HTML before moving into the main focus of programming in JavaScript which is the programming language commonly used to create interactive effects within web browsers. The primary emphasis will be on helping students develop logical thinking and problem solving skills as they learn the JavaScript language.

Cybersecurity I/II

As our world becomes increasingly dependent on technology, cybersecurity is a topic of growing importance. It is crucial that companies and individuals take precautions to protect themselves from the growing threat of cyber attacks. This course prepares students with crucial skills to be responsible citizens in a digital future.

Engineering I/II

Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. This course presents an overview of the fundamentals of electronic circuit analysis, starting with an overview of electrical theory and moving to simple circuit components like power supplies, resistors, capacitors, LED lights, and inductors. Students will learn basic CAD design and 3D printing to add to their learning about circuits and then design and create functional projects.

Python I/II

Python curriculum teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Python is a general purpose programming language used for a wide range of tasks including testing microchips at intel, powering Instagram and building video games.

(Prerequisites: JavaScript I and II)

AP Computer Science A

The AP Java course is a year-long course designed to help students master the basics of Java and equip them to successfully pass the College Board AP Computer Science A Exam at the end of the school year.

(Prerequisites: JavaScript I and II, and Python I and II)

AP Computer Science Principles

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. This course can be taken using either the JavaScript or Python programming language.

(Prerequisites: JavaScript I, JavaScript II, and Python I)

FINE ARTS

CREATIVE MEDIA ELECTIVES

Audio Production I/II (Semester)

The Audio Production course will take students through production processes using digital DAW, including Adobe Audition. Students will learn studio recording processes such as signal flow, signal processing, microphone positioning, sound design, sound manipulation, mixing, editing, and mastering. In addition to composing and producing original digital music, students will also learn the live sound production skills necessary to produce live concerts in both classical and popular genres.

(Prerequisites: Audio Production II: teacher recommendation)

Digital Media I/II (Semester)

The Digital Media course teaches the fundamental elements of Adobe Creative Suite. Students create digital photography, videos, and music. Skills covered include transitional effects and understanding how to use visual space in artistic presentation of moving images and sound. Additionally, the course covers the fundamentals of media literacy: market censorship, target audiences, copyright issues, advertising, etc. The course guides students in the production of high-quality digital media projects.

(Prerequisites: Digital Media II: teacher recommendation)

Yearbook (Full Year)

As a course, Yearbook offers opportunities to develop skills in photography and journalism as well as digital publishing. Students produce a professional publication through graphic design, page layout, and advertisement sales. Students should be prepared to edit texts, work as a team, and meet very strict production deadlines.

PERFORMING ARTS ELECTIVES

Modern Band (Full Year)

This is an instrumental performance class. The primary instruments are guitars, bass, keyboards, drums, woodwinds, brass, and vocals. Modern Band integrates culturally relevant music into a learner-centered music curriculum. Audio-Video technology tools are used as a significant component of instruction.

At Level I, students must be able to read simple notated music and demonstrate a desire to perform. Applied music theory and sight-reading skills are taught throughout the levels. There are required rehearsals and performances outside of the regularly scheduled class meeting times.

(Prerequisite: Vocal and Instrumental proficiency interview)

Public Speaking (Semester)

This is an introductory class to develop public speaking skills. Students write and perform demonstrative, informative, persuasive, argumentative and public debate speeches. Additionally, students learn about the role of communication in our lives, the communication model, spatial relationships, delivery styles, and the effectiveness of language, gestures, and organizational techniques. Further opportunities are offered in the Debate and Speech Club, as well as speech contests.

Theater Arts I -Drama Focus- (Fall Semester)

This is a theater performance class. Students study the techniques of stage and screen theater arts, movement, voice, and diction. Content includes the works of selected major playwrights as well as students writing their own monologues and scripts. Level II advanced students perform more challenging roles. Optional out-of-class performance opportunities are offered.

Theater Arts II - Music Theater and Vocal Focus - (Spring Semester)

This is a singing class. The focus is on Choral Music and Musical Theater. Students develop skills in singing, acting, and stage performance as well as technical theater production. Students prepare and present solo pieces in concert. Out of class performances are required. The class will participate in a culminating showcase at the end of the year. Level II students are considered for major roles.

VISUAL ARTS ELECTIVES**Art I (Semester)**

Art I is a foundation course focusing on the elements and principles of art. Students explore a variety of media through six-week intervals of color theory (painting), sculpture (ceramics), and drawing. Technical skills are developed using a wide range of tools and processes. Art History is integrated into projects for historical and cultural significance.

Art II/III (Semester)

Art II and Art III build on the knowledge of Art I as students advance to more difficult assignments and media. Continuing in six-week intervals students are challenged to use the creative process in problem solving. Technical skills are refined as students continue to work in a variety of media.
(Prerequisite: Art I or teacher recommendation)

ADDITIONAL COURSE OFFERINGS

Advanced Fitness (Semester)

Advanced Fitness is a sports-specific strength and conditioning program. Foundational weight-lifting movements including the squat, press, clean, and deadlift will be taught. Technique will come before intensity. Agility, balance, coordination, and endurance will comprise the conditioning aspect of the program.

Health (Semester)

Our Health course combines scientifically accurate information and the application of skills necessary to achieve optimal health and wellness. It contains up-to-date information on developing and assessing every aspect of fitness and includes detailed instruction for peak performance and maintaining a healthy body weight.

Included in our Health Curriculum, a variety of speakers will cover topics on college counseling, study skills, interpersonal skills and strategies on how to navigate an Upper School experience.

(Required of all freshmen)

Intro to Sports Marketing (Semester)

This course is designed to study marketing principles and concepts in the sports and entertainment industry. Instructional areas will include: An orientation to the sports and entertainment industry, economics, event execution, career opportunities, decision making, event marketing, advertising and promotion, and legal aspects/contracts. Classroom instruction will be reinforced through the use of outside lectures, case studies, possible field trip experiences, current periodicals, computer simulations, projects, and lecture/discussions.