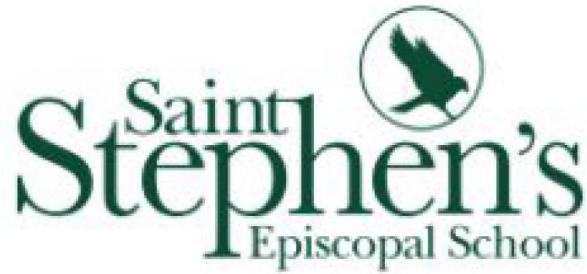


2022-2023



Upper School

Saint Stephen's Episcopal School
Upper School Course of Study
For Ninth Through Twelfth Grades

Saint Stephen's Episcopal School

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For more information contact Upper School Academic Dean Anna Conn

The Upper School Course of Study

Welcome to the Upper School at Saint Stephen's! Whether you are a Saint Stephen's student for all four years or for only a portion of your high school experience, we are glad to have you with us. You are a member of a vibrant, involved, connected community that is proud of its members and their accomplishments, be they academic, athletic, or extracurricular.

The Upper School Course of Study is designed to give you important information about classes offered in the next school year at Saint Stephen's, along with some basic information about planning your years in high school. The Course of Study should be used in conjunction with the Upper School Handbook in the Family Guide on SSESonline, which provides additional information regarding Saint Stephen's requirements, programs, policy, and procedures. If you have questions about anything, please first consult the Handbook, and then ask your advisor or another faculty member at Saint Stephen's for help. Topics of particular interest contained in the Handbook might include: how to add and drop classes, and how to apply for AP classes.

Please see the following pages for academic, co-curricular, and extracurricular planning information and short course descriptions of classes. For each department, a sequence of classes offered is provided to help with planning your progress. The Course of Study is updated annually during the second semester. This Course of Study is for the 2022-2023 school year.

Graduation Requirements

This is a list of the classes to qualify for graduation at Saint Stephen's:

English – four credits

Students will take an English class every year in the Upper School. Year-long classes, co-taught by the English Department, are required in the ninth and tenth grades with choices for semester-long seminars available in the eleventh and twelfth grades.

Mathematics – four credits

Students must take a math course each year at Saint Stephen's, beginning with the appropriate placement in the ninth grade. There are many different alternatives, for example: Algebra 1, Geometry, Algebra 2, and Analysis of Functions or Geometry, Advanced Algebra 2, Pre-Calculus Honors, and AP Calculus AB. Please see the mathematics department flowchart.

Modern and Classical Languages – three credits in high school, including work through Level 3 at a minimum.

Students are required to complete a minimum of 3 consecutive years of a language to meet graduation requirements. Ideally, this will consist of three consecutive years of one language (Latin, Mandarin or Spanish). Most students at Saint Stephen's complete four years of language study in order to be more competitive during the college application process. Students who wish to enroll in more than one language may do so as their schedule allows.

Science – three credits

Every student is required to take Biology, Chemistry, and Physics. These classes may be fulfilled by taking courses either at the college preparatory level or at the honors level.

Social Studies – three credits

Three social studies credits are required for graduation. Freshmen take Ancient World History. Sophomores take Modern World History or AP World History: Modern. For students who have transferred to Saint Stephen's after the ninth or tenth grade, the remaining social studies credits may be fulfilled by taking other classes in the department. Juniors take US History or AP US History, which is required for graduation for all students.

Fine Arts – one credit

This requirement is fulfilled by taking one year of a performing or visual art, usually one of the following: Art 1, Theatre, or Instrumental Music..

Physical Education – one credit

This credit may be earned by representing Saint Stephen's as a participant in a team sport over two seasons (0.5 credit per season) or by managing teams at Saint Stephen's (0.5 credit each season). The credit may also be earned by participating in an approved outside sports training program that occurs after 2:55 p.m. (0.5 credit per year) *and* demonstrating proficiency by participating on a Saint Stephen's team of the same sport (0.5 credit per season). Rarely, this credit is granted to those students who pursue a rigorous sports program in their own time. A maximum of two Physical Education credits may count towards the graduation requirement.

Electives – three credits

These are the classes taken to further explore a student's interests by taking extra classes: an elective science course, another social studies class, more math, additional fine arts, etc. An internship credit may satisfy one of the elective credits.

Co-curricular Requirements – Students must:

- Complete 100 hours of Community Service (we recommend 25 hours per year).
- Do Summer Reading, consisting of the Grade Level Book and one Choice Book each year.
- Attend and fully participate in the Interim Quest program each year.
- Give a Senior Speech to a committee to determine if the speech will be presented in chapel.

The **TWENTY TWO** credits listed above plus co-curricular items are required for graduation.

The standard course load for an Upper School student at Saint Stephen's is a seven period day – six classes plus one study hall. Five classes are considered standard for students concurrently enrolled at an approved independent sports training program, an approved performing arts program, or a capstone project (by special application and administrative approval in the senior year).

At most ONE Advanced Placement class may be taken in the sophomore year, at most TWO Advanced Placement classes may be taken in the junior year, and at most THREE Advanced Placement classes in the senior year. Enrollment limits in Advanced Placement and honors courses are in line with college and university entrance requirements, ensuring all students pursue a course of study which is well-rounded, challenging and balanced. Special permission to extend beyond this limit may be granted by the Academic Dean, in consultation with the Department Chairs, the Director of College Counseling, and the Upper School Director for students who have consistently shown exemplary work in all courses taken. Please note that applying for these classes does not guarantee entry into them; each department has specific requirements, such as an interview with the Department Chair, a written sample of work, recommendations from teachers, and/or other requirements before an applicant will be considered for approval. Decisions will be communicated by the Department Chair.

Planning for Upper School

Students and their families should use the four-year planning page to chart ideas about a student's course of study at Saint Stephen's. During the spring semester, each student's advisor will go over modifications to four-year plans with her or him, as a student's interests and preparation may change over time. Along with fulfilling their graduation requirements, we encourage our students to follow their intellectual passions during the course selection process.

Rising Ninth Graders

Rising ninth grades students should plan on the following course of study:

English: English 9

Mathematics: Algebra 1, Geometry, or (by appropriate placement) Geometry Honors. The Middle School math teachers will help with placing current Saint Stephen's eighth grade students; the mathematics recommendation and additional testing will be used to place incoming students.

Modern and Classical Languages: Latin 1 or 2 (if Latin 1 was successfully completed in Middle School), Mandarin 1 or Mandarin 2 (if Mandarin 1 was successfully completed in Middle School), or Spanish 1 or Spanish 2 (if Spanish 1 was successfully completed in Middle School) or a higher level if the Spanish Placement test indicates greater proficiency. The Modern and Classical Languages Department will review ninth grade language placement.

Science: Biology or (by appropriate placement) Biology Honors

Social Studies: Ancient World History

Performing and Visual Arts: Courses available to ninth grade students include: Art 1, Instrumental Music, Chorus, Theatre, and for a limited number of ninth grade students, Yearbook Publications or Journalism.

Study Hall: Ninth grade students will be registered for a study hall. Students who attend an approved sports or performing arts training do not sign up for an elective class nor a study hall.

Rising Tenth Graders

Rising tenth grade students should plan on the following course of study:

English: English 10, or (by appropriate placement) English 10 Honors

Mathematics: Geometry, or (by appropriate placement) Geometry Honors, Algebra 2, (or by appropriate placement) Advanced Algebra 2, Algebra 2 and Trigonometry Honors.

Modern and Classical Languages: Current Saint Stephen's students should continue in their course of study. Students new to Saint Stephen's will be placed into their chosen sequence with the help of the department.

Science: Chemistry or (by appropriate placement) Chemistry Honors, Marine Science elective

Social Studies: Modern World History or (by application) Advanced Placement World History: Modern

Elective: Tenth grade students have a wider variety of electives available to them than ninth grade students, including higher-level or repeated art classes, the option of starting or continuing a second language as a sophomore, Introduction to Computer Science, Newspaper Journalism, and Marine Science. Please see individual course descriptions and departmental flowcharts to determine courses open to tenth grade students. Students who attend an approved sports or an approved performing arts training program do not register for an elective class in tenth grade.

Study Hall: Tenth grade students are expected to take a study hall. Students who are on a short-day schedule for an approved sports or an approved performing arts training program do not sign up for a study hall.

Rising Eleventh Graders

Rising juniors should plan carefully. Refer to the graduation requirements as you fill out your four-year plan and think ahead through your senior year. You may also wish to meet with the Academic Dean and/or College Counselor, particularly if you may be interested in attending a highly selective college or university.

It is strongly recommended that you fulfill your full credit requirements for PE prior to the start of your senior year.

English: English seminars or an Advanced Placement course, either Language and Composition or Literature and Composition. Most students in the Language class will be juniors; most students in the Literature class will be seniors.

Mathematics: Students who have taken Algebra 1 and Geometry should sign up for Algebra 2 or Advanced Algebra 2 as juniors. Students who have completed Advanced Algebra 2 as sophomores may consider Analysis of Functions or Pre-Calculus Honors. Selected students who participated in the Algebra 2 and Trigonometry Honors class may be invited to continue with Introduction to Calculus Honors. See the mathematics department flowchart in the course description section of this guide. Students new to Saint Stephen's will be placed using their mathematics recommendation and placement testing; consultation with their prior school may be necessary.

Modern and Classical Languages: Current Saint Stephen's students should continue their course of study to complete the three-year requirement in language. Students new to Saint Stephen's will be placed into the sequence with the help of the department.

Science: Physics or Physics Honors (in concurrence with Pre-Calculus Honors) is required for graduation and is usually taken during the junior year. Juniors are also eligible for science electives including Advanced Placement science classes and may choose to take more than one science class.

Social Studies: United States History is required for graduation and is taken during the junior year, either at the college preparatory or Advanced Placement level. However, students may choose to delay U.S. history until their senior year if they wish to pursue another social studies class or, rarely, additional courses in another department. Juniors are eligible for a wide variety of elective courses in the social studies department; see the course descriptions provided. Some juniors take more than one social studies class.

Arts: Students who have not yet satisfied their fine art graduation requirement should plan carefully how to do so. A student who attends a sports program should consider fulfilling the art requirement as a junior.

Elective: Eleventh grade students may take an array of electives, including those mentioned for the tenth grade year. Please see individual course descriptions and departmental flowcharts to determine courses open to eleventh grade students. Students who attend an approved sports or an approved performing arts training program may or may not register for an elective class in eleventh grade, depending on the graduation requirements completed. If there are questions, please consult with the Academic Dean and College Counseling.

Study Hall: Juniors are strongly urged to take a study hall, particularly if taking an Advanced Placement course or two. The College Counseling office uses study hall time during the junior year for sessions preparing students for the college admissions process. Students who do not have a study hall are at a distinct disadvantage. If you are interested in obtaining permission to take seven courses, you must have exemplary performances in all of your current classes and gain approval from the Academic Dean and the Director of College Counseling in consultation. Students with a short-day schedule for an approved sports or an approved performing arts training schedule will need to plan carefully to attend the college counseling co-curricular program.

Rising Twelfth Graders

Rising seniors should carefully consult the graduation requirements when planning their twelfth grade year. Fill out the four-year plan with past and current classes and check the graduation requirements; any requirements left unfulfilled must be completed senior year. Seniors may take courses beyond the minimum graduation requirements in any department, particularly if they are planning to apply to selective or highly selective colleges and universities. Rising seniors may specialize if they have an area of study that is of particular interest and if they have satisfied their requirements in other departments. This may include participation in a Capstone project, which must be approved by the Upper School administration during the spring of junior year. Seniors are reminded that the college preparatory mantra is "all five cores, all four years." At special college planning meetings with parents in the spring of junior year, College Counselors will get to know students and families and will help organize personalized college plans, including suggestions about the senior course of study. Students new to Saint Stephen's as rising seniors should contact the College Counseling office over the summer.

Saint Stephen's Upper School – Four Year Plan

Physical Education Requirements: 1 credit needed. Sports Season Playing/Managing = ½ credit

Community Service Requirement: 100 hours (20 on campus/80 off campus)

Subject: (credits required for graduation)	Grade 9	Grade 10	Grade 11	Grade 12
English (4)				
Mathematics (4)				
Science (3, including biology, chemistry, physics)				
Social Studies (3, including U.S. History)				
Modern & Classical Language (3)				
Fine Arts (1)				
Other Classes (including 1 elective)				
PE (1 credit = 2 full seasons)				

Interscholastic Sports at Saint Stephen's: *Boys:* Baseball, Basketball, Cheerleading, Cross Country, Football, Golf, Lacrosse, Soccer, Swimming/Diving, Tennis, Track/Field. *Girls:* Basketball, Cheerleading, Cross Country, Golf, Lacrosse, Soccer, Softball, Swimming/Diving, Tennis, Track/Field, Volleyball.

Examples of Clubs, Organizations, and Activities: Academic Team, Chapel Leaders, Forensic Science Club, Global Awareness Club, Green Club, Honor Council, Howard Cup Committee, Interact, Jefferson and Hamilton Society, Latin Club, Math Team, Mock Trial, Model Congress, Model United Nations, Prom Committee, Student Ambassadors, Student Council, etc.

Mathematics (4 credits)

Algebra 1

Algebra 1 is designed to provide students with a strong foundation for future success in mathematics. The primary goal is to help students establish a solid mathematical knowledge that includes critical thinking and problem solving skills. Students will explore operations on algebraic expressions, solve and graph linear and quadratic functions, and apply mathematical properties. Other topics include factoring quadratic expressions, data analysis, systems of equations, and simplifying radicals and rational expressions. Technology and a graphing calculator will be used to expand upon the areas listed above.

Geometry

The purpose of this course is to provide students with a solid foundation in geometric thinking. This course emphasizes logical structure, algebraic applications, as well as problem-solving and concept acquisition.

Prerequisite: successful completion of Algebra 1.

Geometry Honors

This honors course provides an in-depth study of geometric concepts and emphasizes analyzing, interpreting, and solving complex geometric application problems.

By appropriate placement and mathematics department recommendation only. Prerequisite: successful completion of Algebra 1.

Algebra 2

This course provides students with an opportunity to strengthen their algebraic knowledge before enrolling in higher level mathematics courses.

By appropriate placement and mathematics department recommendation only. Prerequisite: successful completion of Algebra 1.

Advanced Algebra 2

This course provides students preparing for advanced mathematics the necessary skills in algebra so that they can effectively interpret and solve problems that arise in mathematics, the sciences or other disciplines.

By appropriate placement and mathematics department recommendation only. Prerequisite: successful completion of Algebra 1.

Algebra 2 & Trigonometry Honors

This honors course consolidates Advanced Algebra 2 and the first semester of Pre-Calculus Honors into a single year-long course. It is designed to meet the needs of those students who have demonstrated exceptional skill development and motivation in mathematics.

By appropriate placement and mathematics department recommendation only. Prerequisite: successful completion of Algebra 1 and Geometry or Geometry Honors.

Analysis of Functions

This course provides students with an opportunity to further strengthen their algebra skills. Students will use algebra to model and solve real world application problems, continue to develop their problem-solving skills and foster critical thinking.

By appropriate placement and departmental recommendation only. Prerequisite: successful completion of Algebra 2 or Advanced Algebra 2.

Pre-Calculus Honors

This honors course is designed to complete the study of algebra, geometry, trigonometry, and elementary functions. It provides students the necessary prerequisites to succeed in Calculus.

By application and departmental approval only. Prerequisites: successful completion of Advanced Algebra 2 or Analysis of Functions with a final grade of B or better; a semester 2 exam grade of at least a C or better; obtain mathematics and science teacher recommendations.

Introduction to Calculus Honors

This honors course is a continuation of Algebra 2 and Trigonometry Honors and will cover more advanced analytical techniques of trigonometry as well as particular topics relevant to Advanced Placement Calculus BC. Second semester begins the study of Calculus.

By appropriate placement and departmental recommendation only. Prerequisite: successful completion of Algebra 2 and Trigonometry Honors.

Statistics as Applied to Data Science

This course will introduce students to the main ideas in Statistics as it applies to data science. Students will develop their understanding of data analysis, sampling, correlation/causation, bias, uncertainty, probability, and modeling with data using technology in project-based units. At the end of the course the students will showcase their newly developed skills through a digital portfolio.

Prerequisite: successful completion of Algebra 2, Advanced Algebra 2, or Analysis of Functions in the junior year.

Advanced Placement Statistics

This senior level course focuses on four themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. It is equivalent to a one-semester introductory college level statistics course.

By appropriate placement and departmental recommendation only. Prerequisite: successful completion of Pre-Calculus Honors with a final grade of at least B- and receive mathematics department approval.

Advanced Placement Calculus AB

This course is equivalent to the first semester of college-level calculus.

By application and departmental approval only. Prerequisites: successful completion of Pre-Calculus Honors with a final grade of B or better; a semester 2 exam grade of at least a C or better; obtain mathematics and science teacher recommendations. Recommended: Completion or concurrent enrollment in Physics Honors.

Advanced Placement Calculus BC

This course is the equivalent to a full year of college-level calculus.

By application and departmental approval only. Prerequisites: B average in both semesters of Introduction to Calculus Honors or an equivalent level course and successful completion of Physics Honors.

9	10	11	12
Algebra 1	Geometry	Algebra 2	Analysis of Functions Statistics as Applied to Data Science
		Advanced Algebra 2	Analysis of Functions Pre-Calculus Honors Statistics as Applied to Data Science
	Geometry Honors	Algebra 2 and Trigonometry Honors	Pre-Calculus Honors Introduction to Calculus Honors Statistics as Applied to Data Science

Geometry	Algebra 2	Analysis of Functions	Pre-Calculus Honors Statistics as Applied to Data Science
	Advanced Algebra 2		
	Algebra 2 and Trigonometry Honors	Pre-Calculus Honors	Statistics as Applied to Data Science AP Calculus AB AP Statistics
		Intro to Calculus Honors	Statistics as Applied to Data Science AP Calculus AB AP Calculus BC AP Statistics

Geometry Honors	Advanced Algebra 2	Analysis of Functions	Pre-Calculus Honors Statistics as Applied to Data Science
		Pre-Calculus Honors	Statistics as Applied to Data Science AP Calculus AB AP Statistics
	Algebra 2 and Trigonometry Honors	Intro to Calculus Honors	Statistics as Applied to Data Science AP Calculus AB AP Calculus BC AP Statistics

English (4 credits)

English 9

This introductory course emphasizes the search for self. Through engaging a variety of literary forms, students will think about issues such as heroism, loss of innocence, the nature of identity, and the fine line between civilization and savagery. The principal focus of this course is the development of the student's voice through analytical, reflective, and creative writing and participation in class discussion.

English 10

The principal focus of this course is continuing the development of the student's command of different forms of writing. While engaging both fiction and nonfiction texts, students will practice various essay forms such as descriptive, narrative, argumentative and analytical, focusing upon the process of writing to improve critical thinking and the ability to communicate ideas effectively.

English 10 Honors

This honors-level literature course emphasizes the continued development of a student's critical thinking and the refinement of their analytical writing ability while engaging advanced texts, focusing on themes of justice, revolution, and the philosophical search for meaning. Students who apply for this course should be strong analytical writers, engaged participants in class discussion, and curious about ethical and philosophical issues.

By application and departmental approval only.

English Seminars

Seminars are semester courses for juniors and seniors that focus a student's study to a particular form, genre or period of literature. For example, past courses have included titles such as: Short Story, Creative Non-Fiction, Tragedy, and Creative Writing. Each course emphasizes the development of critical thinking and analytical writing skills. Additionally, each semester course will include a final project or paper.

AP Language & Composition

Students in this class learn to write effectively and confidently; they are expected to read critically, think analytically, and communicate clearly both in writing and speech. The focus of the class is on rhetoric; students study non-fiction literature.

By application and departmental approval only.

AP Literature & Composition

This course examines the four genres of literature – the short story, poetry, the novel, and drama – from a formalist perspective. Students focus on examining a text's tone and themes in constructing analytical essays.

By application and departmental approval only.

Newspaper Journalism

Students gain skills in journalistic writing, interviewing, editing, proofreading and page design as they are tasked with producing the school online newspaper. This course emphasizes newsgathering and news writing skills, including ethics in journalism.

This course is an elective that does not satisfy the English graduation requirement. By application only.

9	10	11	12
English 9	English 10	English Seminars (semester) AP English Language	English Seminars (semester) AP English Language AP English Literature
	English 10 Honors		
Newspaper Journalism	Newspaper Journalism	Newspaper Journalism	Newspaper Journalism

Science (3 credits, including Biology, Chemistry, and Physics)

Biology

Characteristics and interactions of living things are investigated in Biology. Cellular structures and processes are studied in relation to the complexity of organisms and their relationship to their environment. Lab and data analysis skills are developed and practiced throughout the course in both collaborative and independent investigations.

Biology Honors

Biology Honors examines organizational levels of life from the biochemical to the cellular. Organisms are studied from an evolutionary perspective as individuals and as collections of organisms through biomes. Lab work and discussions provide opportunities for inquiry-based exploration. Students are expected to be focused, independent learners with strong critical thinking and analytical skills.

By appropriate placement and departmental recommendation only.

AP Biology

Equivalent to two semesters of introductory college biology, AP Biology emphasizes the theory of evolution as the unifying source of diversity of life based in scientific evidence. Students will study essential life processes and complex interactions, utilizing data interpretation, modeling, and mathematical analysis. Significant reading, independent work, and advanced inquiry are required.

By application and departmental approval only. Prerequisite and corequisite for sophomores: successful completion of Biology Honors and concurrent enrollment in Chemistry Honors. Prerequisite for juniors and seniors: successful completion of both biology and chemistry courses.

Chemistry

Chemistry provides an introduction to the behaviors and interactions of matter and the mental models that have been developed to explain them. This course will lay the foundations necessary to become a more well-informed citizen in today's increasingly scientific world.

Chemistry Honors

Chemistry Honors is a mathematics-intensive course that provides an introduction to the behaviors and interactions of matter. Time, effort and personal initiative are required to successfully master the material taught in this fast-paced course. By appropriate placement and departmental recommendation only. *Pre-requisite: successful completion of Geometry with a minimum end-of-year grade of A-.*

By appropriate placement and departmental recommendation only.

AP Chemistry

AP Chemistry is designed to be the equivalent of a first year college course. This academically and mathematically challenging class has a specific curriculum provided by the College Board that includes a special emphasis on independent work, novel problem-solving and guided inquiry. Topics include analytical techniques, thermodynamics, equilibria, kinetics, acid-base chemistry and electrochemistry.

By application and departmental approval only. Prerequisite: completion of Advanced Algebra 2 or concurrent enrollment in a higher level mathematics course or recommendation of the Mathematics Department Chair.

Physics

Conceptual Physics provides an introduction to the way physics explains the world around us and includes concepts in mechanics, electricity, magnetism, waves, and modern physics. It includes mathematical underpinnings for physical phenomena but focuses more on conceptual understanding.

Physics Honors

Honors-level physics emphasizes a mathematical understanding and application of Newtonian mechanics. It includes laws of motion and energy, electricity and waves with laboratory work to complement course topics.

By appropriate placement and departmental approval only. Co-requisite: Pre-Calculus Honors

AP Physics C

AP Physics covers a first year college curriculum including the topics of motion, forces, energy, rotation, electricity, and magnetism using basic calculus, advanced algebra, and trigonometry.

By application and departmental approval only. Co-requisite: AP Calculus AB or AP Calculus BC

AP Environmental Science

This college-level course includes exploration of the challenges our planet faces by evaluating interactions between the Earth and its inhabitants. This interdisciplinary course prepares students to identify and analyze environmental problems, evaluate their risk and propose potential solutions. Great emphasis is placed on the interconnectedness of concepts.

Collaborative lab work and significant independent reading and written work is required.

By application and departmental approval only.

Marine Science

As an introduction to the world's oceans, the marine science class examines the ocean through an exploration of marine ecosystems. Oceanography and biology concepts are studied to better understand the inner workings and connections between the abiotic and biotic components of the sea. Collaborative lab work will develop analytical skills throughout the course. Regular boat and kayak trips offer observational and experiential learning opportunities.

Prerequisite: Biology and Chemistry (may be concurrently enrolled in Chemistry)

Marine Science 2

Marine Science 2 is a focused survey of marine organisms from the simple sponge, jellyfish and coral up to more complex organisms like sharks, fish and dolphins. Students participate in dissections to learn how the structure and function of an organism can influence its success as a species. Students continue their experiential learning opportunities aboard regular boat and kayak trips that fully immerse them in the marine world.

Prerequisite: Marine Science

Marine Science 3 Honors

Marine Science 3 is an inquiry-based class investigating the current ideology and methodology involved in the management, conservation and protection of the ocean and its resources. Kayaking, boating and student driven field studies will provide an experiential exploration of the marine world. Marine stewardship will be investigated through local conservation and restoration efforts. Students will delve into the world of marine research completing a focused research project of their own choice.

Prerequisite: Marine Science and Marine Science 2

9	10	11	12
Biology	Chemistry Chemistry Honors	Physics Physics Honors	AP Physics
			AP Environmental Science AP Biology AP Chemistry
		AP Environmental Science AP Chemistry AP Biology	Physics Physics Honors AP Environmental Science AP Biology AP Chemistry
Biology Honors	Chemistry Chemistry Honors	Physics Physics Honors	AP Physics
			AP Environmental Science AP Biology AP Chemistry
		AP Environmental Science AP Chemistry AP Biology	Physics Physics Honors AP Environmental Science AP Biology AP Chemistry
	Marine Science 1	Marine Science 1 Marine Science 2	Marine Science 1 Marine Science 2 Marine Science 3 Honors

Social Studies (3 credits, including United States History)

Ancient World History

This course for ninth graders examines the broad story of the past from pre-human history through circa 600 B.C.E.

Modern World History

This course for tenth graders continues with the themes presented in Ancient World History and extends them to history after 600 B.C.E.

Advanced Placement World History: Modern

This AP course for tenth graders is global in its focus and examines the connections between regions of the world. College-level thinking skills provide the foundation for class lessons.

By application and departmental approval.

United States History

This survey of United States history focuses on the development of American society from the colonial period through the modern day.

Advanced Placement United States History

This advanced placement course provides a survey of the social, cultural, and political development of the United States from pre-Columbian societies to the present.

By application and departmental approval.

Advanced Placement European History

This advanced placement course corresponds to a year of college-level study in modern European history from 1450 to the present.

By application and departmental approval.

Advanced Placement Art History

AP Art history serves as a college-level introduction to art history. Students cultivate their understanding of art history through analyzing works of art and placing them in historical context as they explore concepts like culture and cultural interactions, theories and interpretations of art, the impact of materials, processes, and techniques on art and art making, and understanding purpose and audience in art historical analysis.

By application and departmental approval.

Humanities Honors (one semester to be taken with Global Economics and Politics Honors)

The humanities are the study of our shared attempt to wrestle with and record what it means to be human. Combining the disciplines of art history, literature, theater, music, philosophy, religion, and history, we will study the foundations of Western culture.

By application and departmental approval.

Global Economics and Politics Honors (one semester to be taken with Humanities Honors)

This course presents an overview of economic theory, political philosophy, and both international and American economic policy. The course also includes practical, real-world projects, including various strategies related to saving, investing, and finding your own path towards the Socratic ideal of living a “good life.”

By application and departmental approval.

9	10	11	12
Ancient World History	Modern World History or AP World History	United States History or AP United States History	Global Economics & Politics Honors (semester) Humanities Honors (semester) AP European History AP Art History

Modern and Classical Languages (3 consecutive credits of the same language)

Latin 1

This course is an introduction to the Latin language and culture. Students learn basic translation skills and study vocabulary, derivatives, mythology, history, and culture.

Latin 2

This course is designed to finish the study of basic Latin grammar. Students will also continue their study of Latin vocabulary, derivatives, mythology, history, culture, and improve their translation skills.

Latin 3

This course is designed to introduce primary Latin sources to students. Students will review all Latin grammar learned in the first two years of study, improve their translation skills, and learn about the use of rhetoric in literature.

Advanced Latin 4 or 5 – Literature Honors

This course emphasizes the study of Latin as literature. Translation (both from Latin to English and English to Latin) will be emphasized in this course. Students will also give special attention to how the authors convey their ideas.

Advanced Placement Latin – Vergil and Caesar

This AP course covers the syllabus set by the College Board for the study of Vergil and Caesar. Students read Latin selections from Vergil's *Aeneid* and Caesar's *De Bello Gallico*.

By application and departmental approval only.

Classical Greek Honors

This course is designed to teach the basic elements of Ancient Greek grammar. Students will study Greek vocabulary, derivatives, mythology, history, culture, and translation skills. Students will read from selected texts in translation (Sophocles, Euripides, Aeschylus and Homer).

Prerequisite: Completion through level 3 of another language and departmental approval only.

Mandarin 1

Students learn basic grammar points and basic conversational skills in Mandarin that are within the HSK 1 level. Cultural topics will further their understanding of Chinese language and culture, both modern and historical. Students will learn to read, write, and type simplified characters with moderate usage of pinyin.

Mandarin 2

Students learn intermediate grammar points and conversational skills in Mandarin that are within the HSK 2 level. Cultural topics and current events will further their understanding of Chinese language and culture. Students will further develop their ability to read, write, and type simplified characters with little use of pinyin.

Mandarin 3

Students learn upper intermediate grammar points and conversational skills in Mandarin that are within the HSK 3 level. Students will also add to what they have learned about Chinese culture and current events. Spoken skills will be further used in debate-style activities to encourage naturalness in speech. Students will further develop their ability to read, write, and type simplified characters.

Mandarin 4H

Students learn advanced grammar points and conversational skills in Mandarin that are within the HSK 4+ level(s). Students will use complex conversational skills in Mandarin to develop personal opinions and critical thinking while using the target language. Spoken skills will be used in debates and speech activities to encourage naturalness in speech. Students will also become more fluent in their ability to read, write, and type simplified characters.

Mandarin 5H/ Conversational Mandarin

Students will continue to learn advanced grammar points. Grammar and conversational skills will be applied in a fast-paced Chinese-only environment. Spoken Mandarin will be within the HSK 5+ level(s) and ACTFL IM+ level(s). Students will use Mandarin to further develop personal opinions, ideas, and critical thinking while using the target language. Spoken skills will be used in debates and speech activities to encourage naturalness in speech. Students will be focused on increasing their spoken fluency in Mandarin. Mandarin reading material provided will maintain fluency in their ability to read simplified characters.

Spanish 1

Introduces the Spanish language and brings students to a Novice-High level of proficiency; emphasizes all skills: listening, speaking, reading, and writing skills in an integrated way within a range of carefully selected topics and introduces an understanding of Spanish-speaking cultures.

Spanish 2

Enhances Novice-High to Intermediate-Low level of proficiency skills in Spanish and provides opportunities to develop listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in previous topics and introduces new topics; offers further opportunities to increase understanding of Spanish-speaking cultures.

Spanish 3

Enhances Intermediate-Low and Intermediate-Mid level of proficiency skills in Spanish and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in previous topics and introduces new topics; offers further opportunities to increase understanding of Spanish-speaking cultures.

Spanish 4

Enhances Intermediate-Mid level of proficiency skills in Spanish and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in previous topics and introduces new topics; offers further opportunities to increase understanding of Spanish-speaking cultures.

Advanced Spanish (SP3H and SP4H)

This course sequence accelerates and enhances skills in Spanish at an Intermediate-Mid and Intermediate-High level of proficiency while providing further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. The sequence provides continued language development through the exploration of familiar and unfamiliar topics, and provides opportunities for a broader and more extensive understanding of Spanish-speaking cultures. This is an honors level course sequence in preparation for AP Spanish Language and Culture. Teacher recommendation required.

Spanish Conversation and Culture (SP5H Level 1 and SP6H Level 2)

This course sequence provides Intermediate-High and Advanced-Low proficiency students with ongoing and varied opportunities to further develop their Spanish proficiency across the full range of language skills and encourages them to reflect on the many voices and cultures included in the Spanish-speaking world. This is an honors level course sequence. Teacher recommendation required.

Advanced Placement (AP) Spanish Language and Culture

The AP Spanish Language and Culture course emphasizes the College Board topics and tasks required for the Advanced Placement Spanish Language and Culture Examination. It is offered to students at an Intermediate-High to Advanced-Mid level of proficiency. College credit is awarded upon the successful completion of the AP Exam in May. Departmental approval is required.

Advanced Placement (AP) Spanish Literature (NOT offered for the 2022-2023 School Year)

The AP Spanish Literature and Culture course is designed to provide students with a learning experience equivalent to that of an introductory college course in literature written in Spanish. AP Spanish Language and Culture is a prerequisite for the course. Departmental approval is required.

9	10	11	12
Latin 1	Latin 2	Latin 3	Latin 4 Honors Greek Honors
Latin 2	Latin 3	Latin 4 Honors Greek Honors	Latin 5 Honors AP Latin Greek Honors

Mandarin 1	Mandarin 2	Mandarin 3	Mandarin 4 Honors
Mandarin 2	Mandarin 3	Mandarin 4 Honors	Mandarin 5 Honors

Spanish 1	Spanish 2	Spanish 3	Spanish 4 Spanish 4 Honors
		Spanish 3 Honors	
Spanish 2	Spanish 3 Spanish 3 Honors	Spanish 4	Spanish 5 Honors
		Spanish 4 Honors	Spanish 5 Honors AP Spanish Language
Spanish 3 Spanish 3 Honors	Spanish 4	Spanish 5 Honors AP Spanish Language	Spanish 6 Honors AP Spanish Language
	Spanish 4 Honors		Spanish 6 Honors AP Spanish Literature

Performing and Visual Arts

Musical Arts

This course explores music theory and performance through a sampling of keyboarding/piano, ukulele, chorus, and percussion. No prerequisite classes are required, and students of all experience levels are encouraged to develop their interest in musicianship.

Band: Instrumental Music

Students in Band develop musicianship, proficiency of an instrument, and self-expression through the performance of instrumental music, ranging from classical music through jazz and pop. This is achieved through ensemble work, improvisation, and basic music theory.

Prerequisite: Familiarity with a musical instrument is necessary to register for this class.

Theatre

This foundational class is designed to introduce students to the art of acting. Students explore physical and vocal choices to develop a performance that is believable, authentic, and relevant to a drama. Acting experience includes concepts of self, body and voice work, pantomime, and improvisation. Students perform scenes, write a ten-minute play, and perform in two showcases. Students must attend the fall play and the Upper School spring musical. No prerequisite classes are required, and students of all experience will learn to become better communicators and performers in this class.

Musical Theatre 2/3

Musical Theatre 2: This class is an exploration of American Musical Theatre. It will introduce students to the techniques used by actors, singers, and dancers to play musical theatre scenes believably, honestly, and dynamically. Students will learn acting skills, vocal technique, basic dance, and text analysis. Additionally, they will learn the historical, creative, artistic, and aesthetic aspects of musical theatre in relationship to American History. The class will perform in two showcases, and students are strongly encouraged to perform in the Middle and Upper School Musical Production.

Prerequisite: Theatre or with Department Chair approval

Musical Theatre 3: This class is a continuation of the study of Musical Theatre 2. The class will further the student's technique in building character, developing vocal style and projection, and learning dances from various periods and styles of American Musical Theatre. Students will gain knowledge and understanding of the social and cultural impact of the musical theatre art form on society and culture. The class will perform in two showcases, and students are strongly encouraged to perform in the Middle and Upper School Musical Production.

Prerequisite: Musical Theatre 2, Theatre Production 2, or with Department Chair approval

Theatre Production 2/3

Theatre Production 2: This class provides an opportunity to perform in either a one-act or full-length play without after-school rehearsals. Students learn the elements of producing a play and apply them to the class's production piece. Building on the acting skills taught in Theatre, participants will have stage readings of award-winning playwrights and learn various acting techniques. Additionally, there is an introduction to technical theatre which includes, stage design, lighting, sound, costuming, and makeup. Students in this class will perform in one play, one showcase, and will be encouraged to participate on stage or backstage in the Middle and Upper School Musical.

Prerequisite: Theatre, Musical Theatre 2, or with Department Chair approval

Theatre Production 3: This class is a continuation of Theatre Production 2. Participants will perform in either a one-act or full-length play without after-school rehearsals. Students will apply the elements of producing a play to the class's production piece. They will use stage readings of award-winning playwrights to learn directing techniques and will have the opportunity to direct scenes and ten-minute plays. Technical Theatre knowledge is expanded in the areas of lighting, sound, set design, costumes, and makeup. Students in this class will either perform in or direct one play, one showcase, and will be encouraged to participate on stage or backstage in the Middle and Upper School Musical.

Prerequisite: Theatre Production 2, Musical Theatre 2, or with Department Chair approval

Art 1

This is the introductory course for visual arts. Concepts (composition, shape, form, line, color, perspective) are investigated through a variety of media (graphite, color pencil, watercolor, acrylic, cut paper, and three-dimensional materials).

Art 2

This course explores the two-dimensional media of drawing and painting. Fundamental visual arts concepts and techniques are practiced for greater mastery. Extensive observation drawing is expected in this course.

Prerequisite: Art 1

Art 3 Honors

The goals of this course include combining advanced technique with personal development of visual expression. Drawing and painting are used to explore individual ideas. Specific assignments require mastery of visual concepts.

Prerequisite: Art 2

Art 4 Portfolio Honors

Students in this course continue to work with two-dimensional media. Emphasis is placed on development of a personal viewpoint or statement while working through a variety of specified and self-designed assignments. A portfolio of works will be created that is suitable to submit to colleges for placement purposes. Because this is not an advanced placement portfolio, the student may have more options in determining the specific works that will be created.

Prerequisite: Art 3 Honors

Ceramics

Basic techniques of handbuilding, throwing (potter's wheel), and glazing are covered in this course. The curriculum includes three-dimensional design concepts, the structure of clay and glazes, and individual expression in design.

Prerequisite: Art 1

Advanced Ceramics Honors

This course introduces techniques that add size and complexity to the hand building and thrown work introduced in the first-year course. Altered forms, fluting, and piercing are covered. Surface texture and glaze work are explored.

Prerequisite: Ceramics

Ceramics 3 Honors

This course emphasizes personal expression. Complex sets, works in multiple parts, and various methods of surface detail and decoration are assigned. Students develop series of works that have related themes or techniques.

Prerequisite: Advanced Ceramics Honors

Photography

This course is an introduction to film, darkroom, digital photography and photo manipulation in Photoshop. Students learn how to correctly operate a camera, how to compose photographs, and how to digitally manipulate images using Adobe Photoshop

Prerequisite: Art 1

Advanced Photography Honors

This course is a continuation of Photography. Students will learn the difference between film and digital formats. The goal in this course is to develop students' skill in communicating messages via image.

Prerequisite: Photography

AP 2-D Art and Design

This is a studio-based art course. Students are expected to work in photography or other 2-D media to complete the AP portfolio requirements that enable motivated students to perform at the college level.

By application and departmental approval only.

Prerequisite: Advanced Photography Honors or Art 3 Honors

AP 3-D Art and Design (Ceramics)

Students show their mastery of technique and personal expression in ceramics. Students are expected to work in ceramics to complete the AP portfolio requirements that enable motivated students to perform at the college level.

By application and departmental approval only.

Prerequisite: Advanced Ceramics Honors

Yearbook Publications

Students gain skills in photography, graphic design, layout, editing and advertising as they are tasked with helping to produce the school yearbook.

Prerequisite: Art 1 and by application only

9	10	11	12
Art 1	Art 2	Art 3 Honors	Art 4 Portfolio Honors AP Studio Art 2-D
	Photography	Advanced Photography Honors	AP Studio Art 2-D
	Ceramics	Advanced Ceramics Honors	AP Studio Art 3-D

Theatre	Musical Theatre 2 Theatre Production 2	Musical Theatre 2/3 Theatre Production 2/3	Musical Theatre 2/3 Theatre Production 2/3
Band	Band	Band	Band
Musical Arts	Musical Arts	Musical Arts	Musical Arts

Department of Engineering and Applied Technology

Engineering

This course will expose students to the interesting possibilities provided by the field of engineering and is not focused exclusively on students who wish to become engineers. Introduction to Engineering will develop analytical thinking, introduce students to a range of engineering fields, and build problem-solving skills through inquiry labs and project based learning. Students will discuss existing designs, create their own projects, and test those projects based on predetermined goals.

Prerequisite: completion of or co-enrollment in a physics course

Introduction to Computer Science

This is both a survey course and an introduction to programming. Students are introduced to the Python programming language and are taught the basics through graphics and text manipulation. The emphasis is on breaking complex tasks into manageable subtasks and proceeding in a systematic way. Survey topics include Hardware, Binary Numbers, Graphics, Sorting, Interface Design, Spreadsheets, SQL, Regular Expressions, and many more.

Prerequisite: Algebra 1

AP Computer Science A

This is a fast-paced, college-level course for students with at least one year of Java experience. The emphasis will be on quickly creating safe, robust, and readable object-oriented programs. Topics include Data Types, Decisions, Loops, Functions Definition, Data Structures (Lists, Sets, Dictionaries, ArrayLists), File Manipulation, Exception Handling, Objects/Classes, Polymorphism, Events, Inheritance, Recursion, Sorting, Searching, and more as time permits.

By application and departmental approval only.

AP Computer Science Principles

This is a high energy, college-level course for students with at least one year of Computer Science experience and a proven track record with advanced computer concepts. The emphasis will be on creative problem solving using all aspects of Computer Science and Engineering technologies. The goal of this course is to develop industry leaders within the Computer Science community, and not necessarily creating programmers. Subjects to be covered may include 3D Graphics, robotics, political analysis, app design, music, and medicine. There will be a heavy emphasis on lab activities and long term projects.

By application and departmental approval only.

Technology Internship

The Technology Internship Course is meant for sophomores through seniors who have an interest and commensurate aptitude in computer hardware, network systems, and technology in general. The course stresses hands-on activities and challenges which teach students about current computer hardware and applications, as well as network connectivity and wireless devices. The internship also involves the daily interface with the members of the Technology Department, learning how the department operates and benefits the school.

By application and approval by the Director of Technology only.

9	10	11	12
	Introduction to Computer Science	AP Computer Science A Engineering	AP Computer Science Principles Engineering
		AP Computer Science Principles Engineering Technology Internship	AP Computer Science A Engineering Technology Internship