



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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The Upper School Course of Study

Welcome to the Upper School at Saint Stephen's! Whether you are a Saint Stephen's student for 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 that are 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 also 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 second semester. This Course of Study is for the 2018-2019 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 Language – three credits in high school, including work through level 3

Ideally this will consist of three years in a row of one language (Spanish, Mandarin or Latin). For example: Spanish 1, 2, and 3; or Latin 2, 3, and 4. Alternatively, a student may study through the third level in one language, and then decide to study a different language; for example: Latin 3, Mandarin 1, and Mandarin 2. This, however, is not common. Most students at Saint Stephen's complete four years of language study. If you have questions about the language requirements for admissions to particular colleges, please make an appointment with the College Counseling office.

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 World History I. Sophomores take World History II or AP World History. 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. Either US History or AP US History 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, Chorus, or Band.

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 credits per season) or by managing teams at Saint Stephen's (0.5 credits 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 Community Book and one Sponsored 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 2 (if Mandarin 1 was successfully completed in Middle School), or Spanish 1 or 2 (if Spanish 1 was successfully completed in Middle School). The Modern and Classical Languages Department will review ninth grade language placement.

Science: Biology or (by appropriate placement) Biology Honors

Social Studies: World History I

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

Study Hall: Ninth grade students will be registered for a study hall unless special arrangements are made through the Academic Dean's office in consultation with the student, his or her parents, and the Upper School Director. (For example, students may choose to take a second Modern and Classical Languages course as an elective in place of study hall, with approval.) 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

Mathematics: Geometry, Algebra 2, Advanced Algebra 2, or (by appropriate placement) 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: World History II or (by application) Advanced Placement World History

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.

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. However, students may elect to delay physics until the senior year if they wish to pursue another science class or, rarely, additional courses in another department. 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 usually taken during the junior year, either at the college preparatory or Advanced Placement level. However, students may choose to delay U.S. history until the 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

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)				
Physical Education (1 – sport season is ½ credit, managing is ½)				

Extra-Curricular Activities:	Grade 9	Grade 10	Grade 11	Grade 12
Sports				
Clubs and Activities				
Service (100 hours are required)				
Leadership (include honor societies)				
Summer Plans				

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

Examples of Clubs, Organizations, and Activities: Academic Team, Chapel Leaders, Feeding America Club, 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, Runners' Club, Student Ambassadors, Student Council, etc.

Performing and Visual Arts

Band

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 band instrument is necessary to register for this class.

Chorus (Falcon Voices)

Students in this course sing in a mixed vocal ensemble, developing skills in the performance of vocal literature from a variety of musical styles and periods. Vocal technique and basic music theory are incorporated into the course of study.

Theatre

This foundational class is designed for students with little or no experience. It is an introduction to public speaking and the art of live theatre. Students explore physical, vocal, and physiological 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, improvisation. Students read plays, create scenes, and perform in two showcases. Students must attend the fall play and the Upper School spring musical.

Theatre 2

This intermediate level course is designed for students with at least one year of theatre experience. Students use personal experiences and knowledge to develop a character that is believable and authentic in a drama. Students use research and script analysis to revise physical vocal and physiological choices impacting the believability and relevance of a drama. Improvisation, creative dramatics, and scene work help students challenge and strengthen their acting skills. Students must perform in two showcases and attend or participate in the fall play and the Upper School spring musical.

Prerequisite: Theatre

Theatre 3

This experienced level course is designed for students with at least two years of theatre experience. It introduces on the various methods of acting, and their utilization in character development for improvisation, monologues, and scenes. Students learn to block scenes and read a play from a director's point of view, analyzing drama and writing an original ten-minute play. An introduction to stagecraft and technical theatre is provided. Students must perform in two showcases and attend the fall play and the Upper School spring musical. Participation in one school or community theatre production is required.

Prerequisite: Theatre 2

Theatre 4

This advanced level course is designed for students with at least three years of theatre experience. It concentrates on applying a variety of researched acting techniques as an approach to character choices in improvisation and drama. Students self direct dramas that employ research and analysis grounded in the creative perspectives of the playwright. They collaborate as a creative team to discover artistic solutions and make interpretive choices of scripted drama. Students must perform in two showcases and must attend the fall play and the Upper School spring musical. Participation in one school or community theatre production is required.

Prerequisite: Theatre 3

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 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 properly expose film.

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 Studio Art: 2-D Design

This is a studio-based art course. Students are accepted 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.

AP Studio Art: 3-D Design (Ceramics)

Students show their mastery of technique and personal expression in ceramics.

By application and departmental approval only.

Creative Solutions

The Creative Solutions lab is a unique opportunity for Saint Stephen's Students to put their skills to work in a professional setting by collaborating with peers to provide top quality creative solutions to a variety of client guided projects. The team will work together to address real world work space challenges using mediums such as photography, graphic design, and filmmaking to deliver completed projects to our Saint Stephen's community. Each student will be required to lead at least one project through all phases from the initial meeting with the client to final presentation and implementation.

By application and departmental approval only.

Prerequisite: Art 1 or Theatre

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 or nomination from MS Director and departmental approval only.

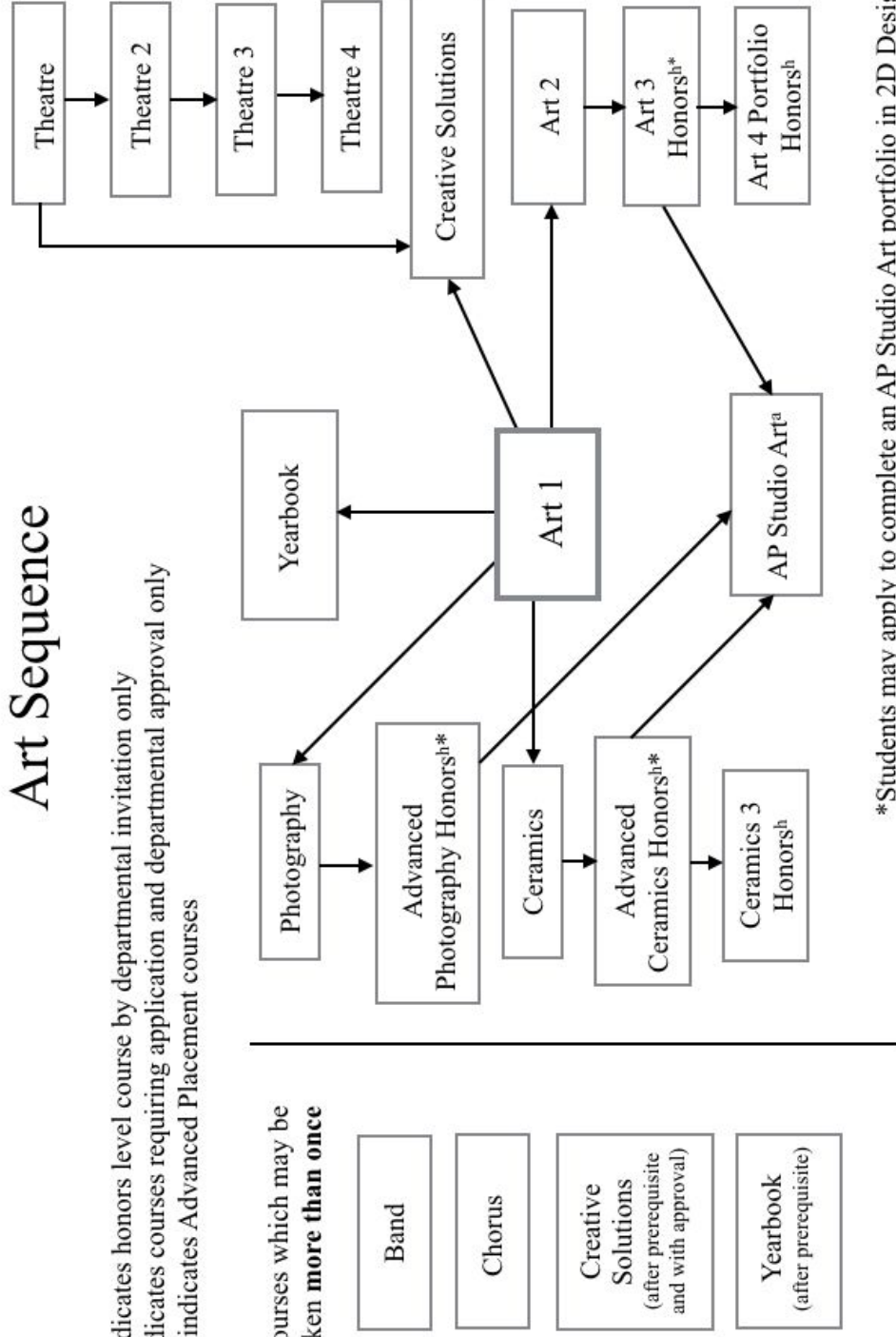
Art Sequence

^h indicates honors level course by departmental invitation only

^a indicates courses requiring application and departmental approval only

AP indicates Advanced Placement courses

Courses which may be taken **more than once**



*Students may apply to complete an AP Studio Art portfolio in 2D Design (after Advanced Photography or Art 3) or in 3D Design (after Advanced Ceramics) with departmental approval.

English

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 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.

Bridge English

Primarily focusing on reading comprehension, grammar, mechanics, and writing structure, this course is intended to transition international students (or students transferring from a non-traditional English program) into the Saint Stephen's English program.

English Sequence

9	English 9		
10	English 10		Newspaper Journalism (elective; does not fulfill English graduation requirement)
11	English Seminars*	AP English Language and Composition ^a or AP English Literature and Composition ^a	Newspaper Journalism (elective; does not fulfill English graduation requirement)
12	English Seminars*	AP English Language and Composition ^a or AP English Literature and Composition ^a	Newspaper Journalism (elective; does not fulfill English graduation requirement)

^a indicates courses requiring application and departmental approval only
 AP indicates Advanced Placement courses

*English Seminars (2 semesters required for one full credit toward English graduation requirement)

Mathematics

Please refer to the math flow chart for prerequisite requirements.

Algebra 1

This course is designed to introduce students to the study of algebra. The course covers the traditional algebra 1 topics.

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

This senior-level course emphasizes statistical concepts including but not limited to utilizing methods of summarizing and displaying data, probability, and statistical inference.

Prerequisite: successful completion of 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: successful completion of Introduction to Calculus Honors or AP Calculus AB; completion or concurrent enrollment in Physics Honors or AP Physics.

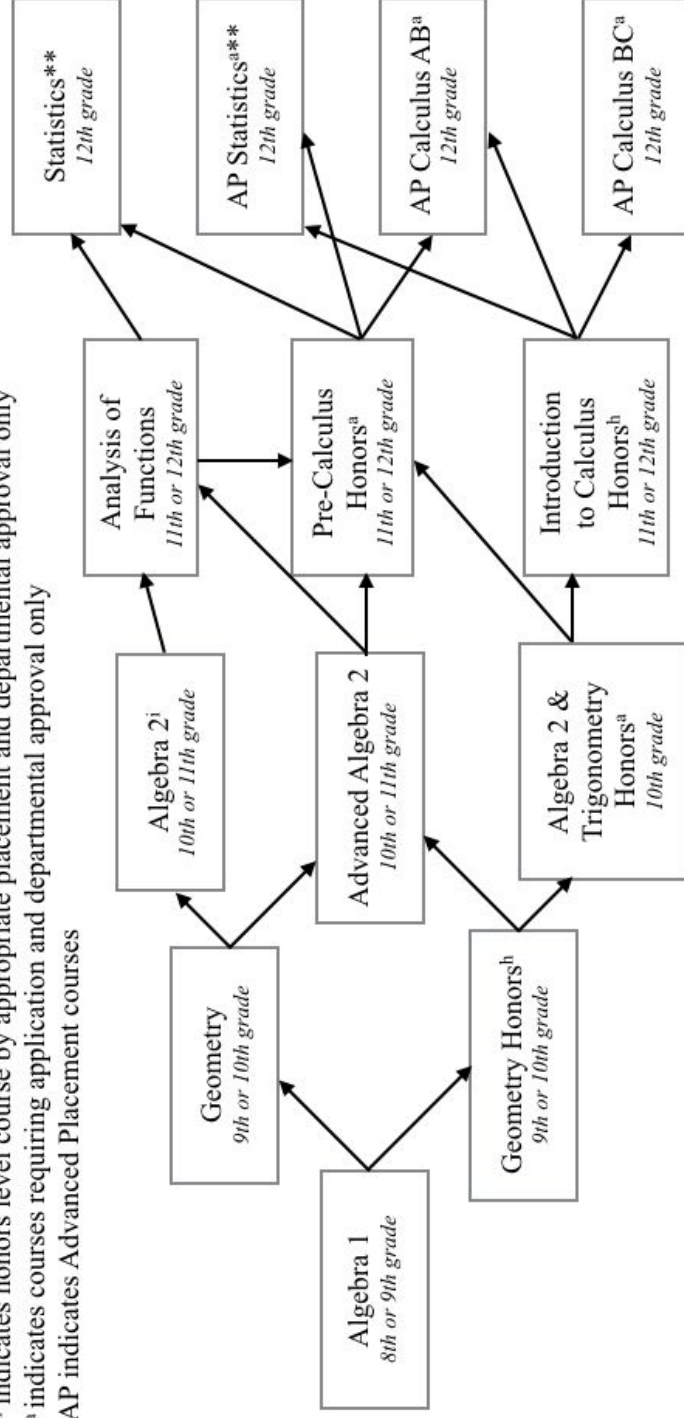
Mathematics Sequence

ⁱ indicates by appropriate placement and departmental approval only

^h indicates honors level course by appropriate placement and departmental approval only

^a indicates courses requiring application and departmental approval only

AP indicates Advanced Placement courses



******Statistics and AP Statistics satisfy the fourth year of the mathematics requirement but may also be taken in the senior year as an elective course in addition to another math course.

Modern and Classical Languages

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 simple conversational skills in Mandarin, Chinese cultural patterns and develop an ability to read and write simplified characters, as well as pin yin.

Mandarin 2

Students learn more complex conversational skills in Mandarin, and add to what they have learned about Chinese cultural patterns. Students will also further develop their ability to read and write simplified characters, as well as pin yin.

Mandarin 3

Students continue to develop complex conversational skills in Mandarin, and add to what they have learned about Chinese cultural patterns. Students will also become more fluent in their ability to read and write simplified characters, as well as pin yin.

Spanish 1

This course is an introduction to the Spanish language and culture. Students learn basic conversational skills and vocabulary. Students develop a understanding of the grammatical structures of the language.

Spanish 2

Students continue their study of Spanish grammar and vocabulary, while continuing to explore the culture. Students develop more complex conversational skills and will also further develop their ability to read and write in the language.

Spanish 3

Students practice debate and persuasive writing about the environment, technology, well-being, and daily life to deepen their conversational vocabulary and to describe hypothetical situations.

Spanish 4 or 5

Students study multimedia sources to express themselves clearly in conversation about popular culture and social relationships and to weave all tenses and moods into fully developed presentations. Spanish 5 is an extension of Spanish 4 to continue building writing and speaking skills for higher level work.

AP Spanish Language

As in a second-year college Spanish conversation and composition course, students explore the six AP Language themes, ranging from “Global Challenges” to “Beauty and Aesthetics”, and practice creative and analytical structures through conversation, composition and beginning literature.

By application and departmental approval only.

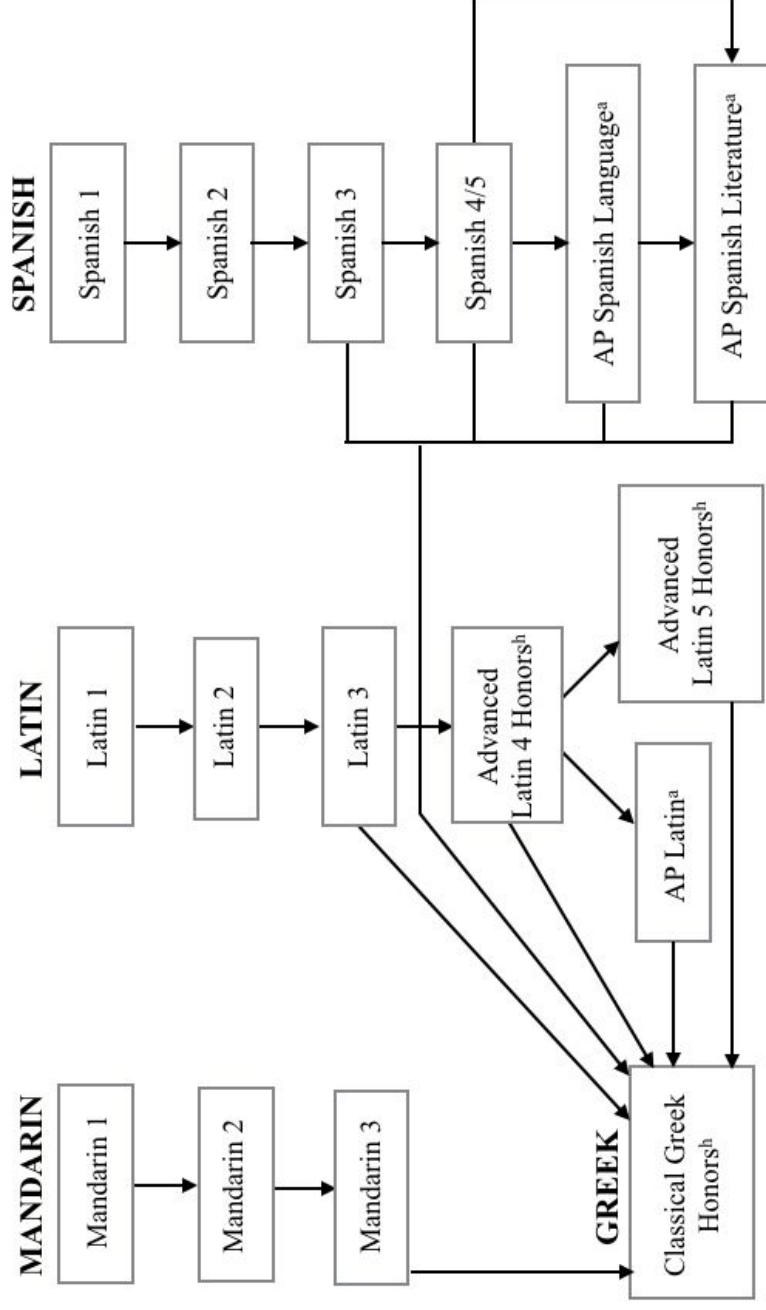
AP Spanish Literature

As in a third-year college Introduction to Hispanic Literature course, students interpret and analyze works representing various historic periods, literary movements, genres and Spanish-speaking cultures.

By application and departmental approval only.

Modern & Classical Languages Sequence

Three years of foreign language in high school are required for graduation — students must study at least three years of one language. Students who have completed three years of one language are welcome to study another language.



Seniors who have completed their language requirement are welcome to enroll in Classical Greek Honors.

^h indicates honors level course by departmental invitation only

^a indicates courses requiring application and departmental approval only

AP indicates Advanced Placement courses

Social Studies

World History I

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

World History II

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

Advanced Placement World History

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 only.

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 only.

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 only.

Humanities: Greco-Roman World

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, this semester-long course will examine the foundations of Western culture in the Greco-Roman world.

Humanities: Judeo-Christian Heritage

This semester-long course will focus on the three major monotheistic faiths--Judaism, Christianity, and Islam--and the Medieval period in Europe through an interdisciplinary study of art history, literature, theater, music, philosophy, religion, and history.

Global Economics and Politics

This year-long course presents an overview of economic theory, political philosophy, and both international and American economic policy. The course includes practical, real-world projects.

American Politics and International Relations

This year-long course focuses on American politics in semester 1 and international relations in semester 2. This progression emphasizes the special aspects of the U.S. system of government as revealed by its political process and introduces students to the field of international relations by surveying the key issues involved in world politics.

Social Studies Sequence

9	World History I	
10	World History II	AP World History ^a
11	United States History (Either US or AP US History are required for graduation.)	AP United States History ^a
12	Electives: Humanities, Global Economics & Politics, American Politics & International Relations (All electives are open to juniors.)	AP European History ^a

^a indicates courses requiring application and departmental approval only

AP indicates Advanced Placement courses

Science

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 and mathematics-intensive course.

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. Participation in Honors Physics requires Science Department advisement.

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

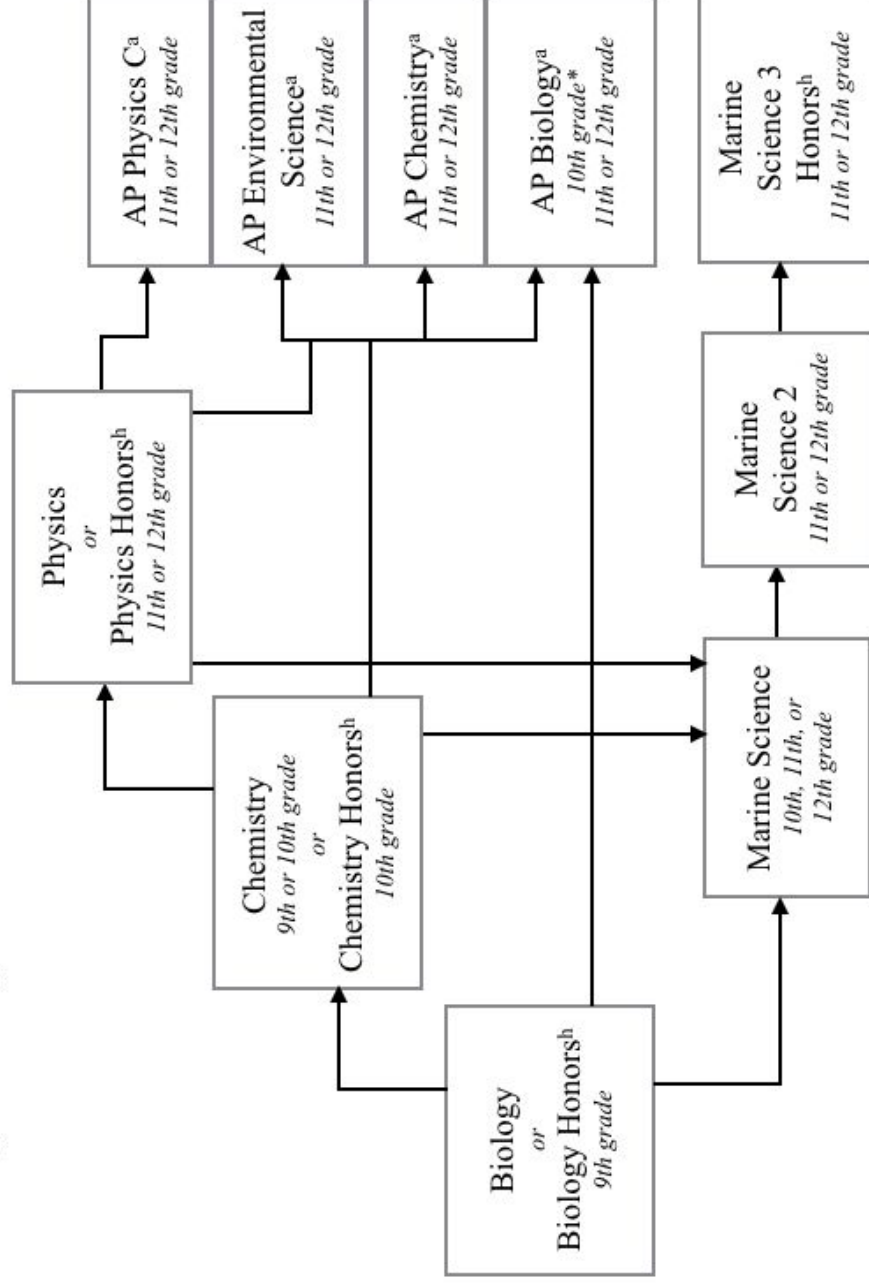
Marine Science 3 is an inquiry-based class investigating the current ideology and methodology involved in the management, conservation and protection of the ocean and its resources. Kayaking, boating and student driven field studies will provide an experiential exploration of the marine world. Marine 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

Science Sequence

^h indicates honors level course by departmental invitation only
^a indicates courses requiring application and departmental approval only
 AP indicates Advanced Placement courses

Biology, Chemistry, and Physics are required for graduation.



*Sophomores, who have successfully completed Biology Honors and will be concurrently enrolled in Chemistry Honors may take AP Biology by application and departmental approval only.

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

Computer Science Honors

This course is designed to prepare students for college-level work in Computer Science. It starts with a fast-paced introduction to Python programming language and ends with an object-oriented programming project. Topics include Data Types, Decisions, Loops, Functions Definition, Data Structures (Lists, Sets, Dictionaries), File Manipulation, Exception Handling, Objects/Classes, Inheritance, Recursion, Sorting, and Searching.

Prerequisite: Algebra 1 and Introduction to Computer Science (with strong recommendations from teachers of each course) or evaluation and approval from the department chair.

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. The lab component will be approximately thirty hours.

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.

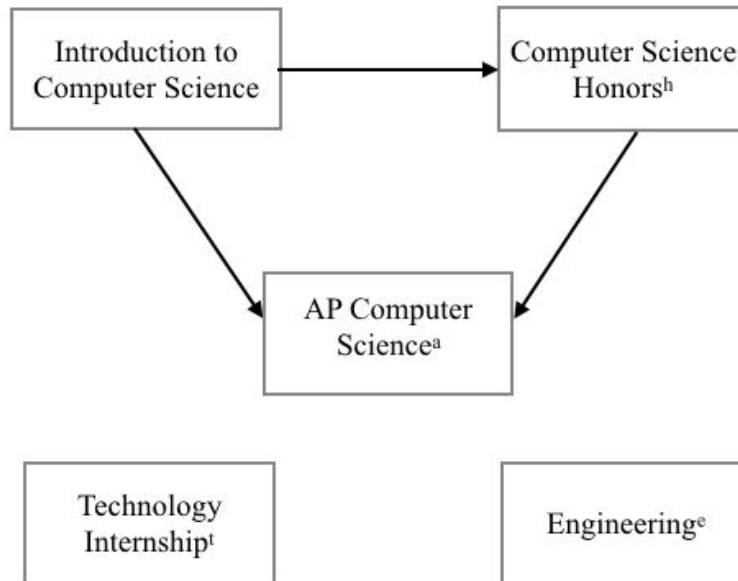
By application and departmental approval only.

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.

Engineering and Applied Technology Sequence



^h indicates honors level course by departmental invitation only

^a & ^t indicates courses requiring departmental approval only

^e indicates course requiring completion or co-enrollment in physics

AP indicates Advanced Placement courses