



ARMY AND NAVY

ACADEMY

CURRICULUM GUIDE

2009-2010

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MISSION, VISION, PHILOSOPHY & VALUES

MISSION: Our mission is to educate and develop young men of good character.

VISION: The Army and Navy Academy will be a premier, internationally recognized boarding school for young men and will be known for its academic excellence. The Academy's military foundation will enable its cadets to develop leadership skills and character traits necessary to succeed in life.

PHILOSOPHY: Our philosophy advances the fulfillment of our mission and provides a pathway for cadets to:

- Gain respect for country, God, and all for which they stand;
- Appreciate education and the realization of individual potential;
- Maintain personal honor and a sense of pride in themselves;
- Develop discipline, leadership qualities, and respect for others.

CORE VALUES: In order to fulfill its mission, vision, and philosophy, the Army and Navy Academy will apply the following core values in all that it teaches cadets: *leadership, excellence, honor, responsibility, loyalty, and compassion.*

CADET LEARNING EXPECTATIONS:

The Army and Navy Academy cadet will . . .

- Develop intellectual curiosity, creativity, and independent thought through a rigorous academic core that prepares him for the challenges of a post-secondary education;
- Become an information-literate cadet who can gather, evaluate, and analyze facts in order to draw meaningful and valid conclusions in an ethical manner;
- Demonstrate an understanding of civic responsibilities and a commitment to service;
- Relate successfully to others, accept responsibility, demonstrate empathy, and adapt to change as he faces the problems that confront him now and in the future;
- Develop mature habits and skills that promote life-long good emotional health;
- Develop an appreciation for cultural diversity in our modern world.

ACCREDITATION

Educational accreditation is a type of quality assurance process under which a facilities or institution's services and operations are examined by a third-party accrediting agency to determine if applicable standards are met. Should the facility meet the accrediting agency's standards, the facility receives accredited status from the accrediting agency.

In most countries in the world, the function of accreditation for educational institutions is conducted by a government ministry of education. In the United States, however, educational accreditation is performed by private nonprofit membership associations. The Army and Navy Academy is accredited by WASC (Western Association of Schools and Colleges), CAIS (California Association of Independent Schools), and NAIS (National Association of Independent Schools).

WASC is one of six official academic bodies responsible for the accreditation of public and private universities, colleges, secondary and elementary schools in the United States and foreign institutions of American origin. The Western Association of Schools and Colleges has jurisdiction over the states of California and Hawaii, territories of Guam, American Samoa, Micronesia, Palau, Northern Marianas Islands, Pacific Rim, East Asia and areas of the Pacific and East Asia where American schools or colleges may apply to it for service.

CAIS is a non-profit organization of more than 190 elementary, middle and secondary schools in California. The Association serves and strengthens its schools by setting standards of academic quality and ethical conduct, by providing for the professional growth of faculty, administrators, and trustees, and by promoting ethnic and socio-economic diversity. Independent schools are pre-collegiate, non-profit institutions governed by boards of trustees and supported by tuition revenue, charitable contributions, and endowment income. Through the accreditation process, schools hold themselves publicly accountable to all who seek assurance that they meet high standards of educational quality, operation and staff competence.

NAIS, governed by a board of trustees and staffed by approximately 45 individuals, is a U.S.-based membership organization and the national voice of independent education. Founded in 1963, NAIS represents independent schools and associations in the United States, including day, boarding, and day/boarding schools; elementary and secondary schools; boys', girls', and coeducational schools. NAIS has affiliate members internationally as well. NAIS's mission is to be the national voice of independent schools and the center for collective action on their behalf.

GRADUATION REQUIREMENTS

Below are the *minimum* graduation requirements for cadets entering in the 9th grade. Cadets entering in 10th or 11th grade must take six courses per semester and must meet all requirements, except for grade-specific courses taken prior to their entrance to the Academy. Because Army and Navy Academy aligns itself with the requirements for entry into the University of California system (noted by the “a-g” letter designations), we require that both D’s and F’s in core academic subjects be remediated to passing grades (C or above) through attending an accredited summer school program, retaking the class at the Academy, or taking approved independent study classes. A minimum of 21 units is required to obtain a diploma from the Academy as follows:

Subject	Units	Minimum Credits Required per Subject Area for Graduation
“a” History / Social Science	2 ½	1 unit World History or ½ unit Geography & ½ unit World History 1 unit U.S. History ½ unit U.S. Government
“b” English	4	1 unit English 9 1 unit English 10 1 unit English 11 1 unit English 12 <i>No more than one year of ESL can be used to meet this requirement.</i>
“c” Mathematics	3	1 unit Algebra 1 1 unit Geometry 1 unit Algebra 2 <i>A fourth year of math is offered as a requirement for admission into the more competitive universities.</i>
“d” Laboratory Science	2	1 unit Biology 1 unit Physics or Chemistry <i>Competitive universities generally require all three courses. Each of the units elected must comprise a full year of the science elected.</i>
“e” LOTE	2	2 units in one LOTE <i>Cadets who demonstrate fluency in a LOTE (language other than English). Fluency is demonstrated with a passing score on standardized testing (SAT 2 Subject Test w/ Listening).</i>
“f” VPA	1	1 unit in one VPA <i>This requirement may be met by one year of a UC approved VPA (visual and performing arts) course.</i>
“g” Elective	1	1 unit
Leadership Education and Training (JROTC)	4	1 unit LET 1 1 unit LET 2 1 unit LET 3 1 unit LET 4 <i>L.E.T. / JROTC course attendance is mandatory for all cadets. Cadets enrolled in a Band course may be exempt.</i>
Economics	½	½ unit Economics <i>Required course for all cadets</i>
Physical Education	2	2 units

GRADING SYSTEM

All teachers issue progress report grades for each of the six grading periods (three per semester). Semester grades, which are calculated using the grading period grades and a final examination grade, are issued by the teachers and become a permanent part of the student's transcript. The grading periods, final exams, and semester grades are calculated as follows:

First Semester Grade	Grading Period 1	25% of Grade
	Grading Period 2	30% of Grade
	Grading Period 3	30% of Grade
	Final Exam	15% of Grade

Second Semester Grade	Grading Period 4	25% of Grade
	Grading Period 5	30% of Grade
	Grading Period 6	30% of Grade
	Final Exam	15% of Grade

All letter grades, except for AP classes, are based on the following percentages:

Letter Grade	Percentage Range	Description
A+	98.5 - 100%	Excellent work; well above basic expectations
A	92.1 - 98.4%	
A-	89.5 - 92.0%	
B+	88.0 - 89.4%	Above average work; above basic expectations
B	82.1 - 87.9%	
B-	79.5 - 82.0%	
C+	78.0 - 79.4%	Average work; meeting basic minimal requirements
C	72.1 - 77.9%	
C-	68.5 - 72.0%	
D+	67.0 - 68.4%	Below average work
D	62.1 - 66.9%	
D-	58.5 - 62.0%	
F	0 - 58.4%	Failure to meet requirements
P	58.5 - 100%	Pass; meeting or exceeding the minimum requirements
I	n/a	Incomplete work that still must be completed
W	n/a	Withdrawn from the class

AP (Advanced Placement) & Honors classes use the following percentages to compute all grades:

Letter Grade	Percentage Range	Description
A	93 - 100%	Excellent work; well above basic expectations
B	85 - 92%	Above average work; above basic expectations
C	75 - 84%	Average work; meeting minimal requirements
D	70 - 74%	Below average work, but still making basic attempts
F ¹	10 - 69%	Failure; lack of basic academic efforts
I	n/a	Incomplete work that still must be completed

Letter Grade	Percentage Range	Description
W	n/a	Withdrawn from the class

¹Grounds for reassignment from the AP & Honors class to regular class

The student's **GPA (Grade Point Average)** is then determined by assigning the following numbers to the letter grade and averaging all classes together:

Letter Grade	Points for Regular-Level Class	Points for Honors- or AP-Level Class
A	4	5
B	3	4
C	2	3
D	1	1
F	0	0

2009-2010 COURSES

The following chart lists the typical courses offered from year-to-year by grade level and is subject to change. High School cadets must enroll in six class periods per semester. Please refer to the Middle School and High School Course Descriptions for a brief course description as well as applicable pre-requisite information.

	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Social Science	Geography 7	U.S. History 8	World Geo.	World History	U.S. History AP U.S. History	U.S. Gov. (1 sem.)
English	English 7	English 8	English 9	English 10 English 10A	English 11 AP English Language	English 12 AP English Literature
Mathematics	Basic Math Pre Algebra	Pre Algebra Algebra 1	Pre Algebra Algebra 1 Geometry	Algebra 1 Geometry Algebra 2	Geometry Algebra 2 Finite Math Pre Calculus	Algebra 2 Finite Math Pre Calculus AP Calculus BC Calculus
Lab Science	Life Science 7	Earth Science 8	Biology	Biology Physics Chemistry	Physics Chemistry AP Biology AP Physics AP Chemistry	Physics Chemistry AP Biology AP Physics AP Chemistry
LOTE	n/a	Spanish 1 French 1	Spanish 1 Spanish 2 French 1 French 2	Spanish 1 Spanish 2 Spanish 3 Spanish 3 Honors French 1 French 2 French 3	Spanish 2 Spanish 3 Spanish 3 Honors AP Spanish French 2 French 3 AP French	Spanish 3 Spanish 3 Honors AP Spanish French 3 AP French
VPA (* = currently under review for UC approval)	M.S. Band	M.S. Band	Adv. Marching Band Drama Guitar Music Technology H.S. Band Art* Photography* Digital Photography*	Adv. Marching Band AP Art Drama Guitar H.S. Band Art* Intermediate Art Music Technology Photography* Digital Photography* Photography 2	Adv. Marching Band AP Art Drama Guitar H.S. Band Art* Intermediate Art Music Appreciation Music Technology Photography* Digital Photography* Photography 2	Adv. Marching Band AP Art Drama Guitar H.S. Band Art* Intermediate Art Music Appreciation Music Technology Photography* Digital Photography* Photography 2
Elective	M.S. Media Studies M.S. Study Skills M.S. Art	M.S. Media Studies M.S. Study Skills M.S. Art	ESL Yearbook	ESL Physical Science Yearbook	ESL Physical Science Yearbook	AP Psychology ESL Economics (1 sem.) Physical Science Yearbook
JROTC	n/a	n/a	LET 1	LET 2	LET 3	LET 4

Note: Cadets enrolled in H.S. Band or Advanced Band may be exempt from LET due to scheduling conflicts

ACADEMIC SUPPORT SERVICES

The Academic Department- provides a variety of academic support services and programs for cadets. Below is a brief description of each. More information on each service and program can be obtained by contacting your Academic Counselor.

Academic Counseling Program

The Academic Counseling Program provides academic and college counseling as well as standardized testing (i.e. PSAT, SAT, and AP) services for all cadets in grades 9 thru 12. The grade-specific Academic Counselors closely monitor the academic progress of cadets in their respective companies, guide cadets in establishing their academic schedules for the school year; manage cadets on academic probation status; ensure that graduation requirements are met, and work closely with the Learning Strategies Coordinator. The Academic Counselors are responsible for implementing the Mandatory Tutorial and Study Hall academic intervention programs.

Learning Strategies Program

The Learning Strategies Program is an intervention program designed to support cadets with severe, histrionic, or diagnosed learning challenges. Cadets who have qualifying disabilities (i.e. IEP, 504) or who display a need for academic intervention are placed in the Learning Strategies Program. The Learning Strategies Coordinator works closely with the faculty regarding the content-based academic needs of cadets and regularly conducts SST (Student Study Team) meetings to further support cadets.

Tutorial & Mandatory Tutorial

Tutorial occurs at the end of the class day and is considered part of the academic day; thus, all cadets are required to use this time for academic matters. This is a valuable opportunity for cadets to receive additional academic support from their teachers. Faculty members will be stationed in their classrooms or offices so that cadets may come to them for extra assistance. Cadets who earn a grade of "D" or "F" in any course or who display a need for academic support will be assigned Mandatory Tutorial. Mandatory Tutorial is an academic intervention program designed to assist cadets with content-based academic issues. The Mandatory Tutorial Roster will be published and updated regularly by the Academic Department.

Study Hall

Cadets who earn a grade of "D" or "F" in any course or who display a need for academic support will be assigned to Study Hall. Study Hall takes place during CQ Monday – Thursday at the north end of the Mess Hall (Grades 10-12) and at the Recreation Hall (Grades 7-9). Study Hall is an academic intervention program designed to assist cadets with content-based academic issues. The Study Hall roster will be published and updated regularly by the Academic Department.

Thursday Study Hall

Teachers provide the Academic Counselors with a missing homework list every Thursday. This list raises awareness to the counselors of cadets in grades 7-12 who have not completed homework for the week and a description of the homework and handouts. The Academic Counselor's compile the list between upper and lower school and require cadets with missing work to attend Thursday Study Hall. If the Upper School cadets do not complete all missing work then they are required to attend Friday Study Hall at the north end of the Mess Hall. If the Lower School cadets do not complete all missing work then they are required to attend an additional study hall that evening in the Recreation Hall.

CQ (Call to Quarters)

CQ formation is held according to the daily schedule, Sunday thru Thursday. CQ is the official evening study time established for cadets. It normally allows each cadet ample time to complete homework assignments. CQ is scheduled as a two-hour quiet period set aside from 2115-2200 on Sunday and from 1845-2045 Monday – Thursday where cadets are authorized to study in their rooms or other designated area approved jointly by the Academic and Residential Life Departments.

Evening Office Hours

Faculty members hold evening office hours Monday thru Thursday during CQ in the Mess Hall. During these office hours, cadets should seek extra assistance. This is another valuable opportunity for cadets to receive individualized academic support from their teachers. Cadets are encouraged to seek the help of any faculty member on campus, even if the cadet is not enrolled in the teacher's class. An Evening Office Hours schedule is published by the Academic Department.

REQUIREMENTS FOR ESL STUDENTS

In order to gain initial admission to Army and Navy Academy, all international applicants are **required** to take the SLEP (Secondary Level English Proficiency) **or** TOEFL (Test of English as a Foreign Language). All upper school international cadets (10th-12th) must take the TOEFL and all lower school cadets (7th-9th grades) must take the SLEP. On either a computerized test or a paper test, candidates must achieve certain grade-level scores as deemed acceptable by the respective Head of School to be considered for admission. Moreover, the same scores will be used for a returning international cadet to be promoted to the next grade level if the Head of School deems this action appropriate. The cadet would then need to take the test by a specified date so that the administration could decide upon re-admission.

Any international cadet who is admitted to the Academy but who does not achieve the minimum prescribed TOEFL score is required to attend the on-campus ESL (English as a Second Language) primer class for the two weeks immediately preceding the beginning of the regular school year. During those two weeks, these cadets will meet three hours daily, Monday through Saturday, in a classroom setting with an ESL instructor for the purpose of English-language immersion. These cadets, at the end of that initial two weeks, will then be mandated to take the Academy's Advanced ESL course in place of their regular English 9 or English 10 course. To further support these cadets, they may be required to take the Academy's ESL course as an elective. During this first semester, regular cadet reviews will take place, and the and Head of Upper School of Academics will decide if extra three-hour Saturday sessions will be advisable for some or all of these cadets. At the end of the first semester, the teacher will assess each individual cadet to determine if a second semester of ESL will be required for him. The summer program, although mandatory for certain cadets, will cost the parents an extra fee. Please see below for descriptions of the TOEFL and SLEP tests.

TOEFL (Test of English as a Foreign Language)

All upper school (10th-12th grade) international students must take the TOEFL (Test of English as a Foreign Language) every year they are on campus until they have reached a minimum level of 550 out of 800 on the written version or score 82.5 out of 120 on the on-line web based version. In the Academy's commitment to align itself with a college prep curriculum, the TOEFL is mandatory for all international students to take because more than 6,000 colleges and universities worldwide require the TOEFL test as part of a student's application.

SLEP (Secondary Level English Proficiency) Test

All lower school (7th-9th grade) international students take the SLEP (Secondary Level English Proficiency) test which measures their listening and reading comprehension abilities. The SLEP test results help academic counselors' measure student's abilities and help place students in either an ESL or English course.

MIDDLE SCHOOL COURSE DESCRIPTIONS

The following course descriptions describe the typical middle school courses offered from year-to-year by grade level and are subject to change.

SOCIAL SCIENCE

Geography 7 - 7th grade - Full Year

Geography 7 will provide a balanced introductory presentation of the physical and cultural aspects of the eight major cultural regions of the world: the United States and Canada, Latin America, Western Europe, Russia and Eastern Europe, the Middle East and North Africa, Sub-Saharan Africa, Southern and Eastern Asia, and the Pacific.

History 8 - 8th grade - Full Year

History 8 will review critical events in U.S. history from the framing of the Constitution to World War I. Cadets will become acquainted with the principles of democracy, will trace the westward expansion of the nation, will study the divergent development of different regions of the country, and will analyze the causes of the Civil War. Cadets will examine the disappointments of the Reconstruction in developing an America committed to racial equality and will study the changing face of American foreign policy from Reconstruction through World War I. Connections between past and present are emphasized.

ENGLISH

English 7 - 7th grade - Full Year

English 7 will introduce the cadets to the fundamentals of grammar, usage, mechanics, and the writing process. In addition, cadets will participate in a systematic program that provides comprehensive instruction and practice with vocabulary words commonly found on the SAT exam. Cadets will study the techniques of informative, persuasive, and creative writing and demonstrate proficiency through journals, reports, and letters.

English 8 - 8th grade - Full Year

English 8 will encourage cadets to see themselves as writers. They are shown the finer points of English grammar through the use of classroom explanations/discussions, textbook assignments, and supplemental related homework tasks. In the English 8 class, cadets develop and strengthen their skills in many kinds of writing. As cadets gain confidence in writing essays centered on narrative, persuasive, descriptive, and other writing formats, they learn how to develop and focus their writing. They are also introduced to the rhetorical patterns and grammatical tools necessary to write clearly. Cadets learn the elements of effective organization and the need for careful revision. Weekly vocabulary lessons, poetry, public speaking, and other supplemental units will be covered during the school year.

ESL (English as a Second Language) - 7th or 8th grade- Full Year

ESL (English as a Second Language) will provide intensive language acquisition training as well as both oral and auditory training in English and serves as a transitional link for limited English proficiency cadets. The study of vocabulary and essential English conventions will be emphasized. Cadets will practice writing skills in their newly acquired language. In addition, through the use of newspapers and periodicals, cadets will be exposed to their new culture and the real dilemmas faced by human beings.

MATHEMATICS

Math 7 - 7th grade - Full Year

Math 7 will develop in the cadet a basic mathematical understanding of numbers and arithmetic operations and will provide experience in measurement, integers, data analysis, and interpretation.

Pre-Algebra - 8th grade - Full Year

Pre-Algebra will develop in the cadet an introductory understanding of Algebra and Geometry. It will also provide a smooth transition in mathematics from concrete experiences to more abstract experiences, using multiple modes of learning.

Algebra I - 8th grade - Full Year (*Pre-requisite*: successful completion of Pre-Algebra)

Algebra I is designed to reinforce skills developed in Pre-Algebra: relating addition, subtraction, multiplication, and division facts with positive and negative numbers; manipulating complex algebraic expressions; solving and graphing problems using linear, quadratic, and equation systems; and introducing the use of functional notation.

SCIENCE

Life Science 7 - 7th grade - Full Year

Life Science 7 will present a scientific study of the structure and function of living organisms and their ecological relationships. More specifically there will be an introduction to general scientific skills and their importance. In addition, the second semester will place an emphasis on heredity, evolution, ecosystems, and the environment. Finally, the key elements of health will be introduced and discussed.

Earth Science 8 - 8th grade - Full Year

Earth Science 8 will introduce the cadet to the interrelationship between physical and earth sciences. The topics include key elements of physical science: force and motion, magnetism, electricity, and energy include a general introduction to geology and the earth's natural resources with an emphasis placed on oceanography, meteorology, and astronomy. The final weeks of the course focus on the introduction of chemistry and the periodic table of elements.

LOTE (Language Other Than English)

Spanish 1 - 8th grade - Full Year

Spanish 1 will emphasize structural awareness, cultural acquaintance, and communication skills. Cadets will gain information about the civilization, cultures, and customs of the Spanish-speaking people, and they will appreciate the importance of Spanish in the world; they will learn the basics of Spanish grammar and usage; they will develop the four basic language skills of listening, speaking, reading, and writing. This is the first year course in a four-year sequence designed for the non-Spanish speaking cadet.

French 1 - 8th grade - Full Year

French 1 will develop basic skills in listening, speaking, reading, and writing the French language through a variety of communicative activities and written exercises. Core conversations introduce the vocabulary and grammar in each chapter. French culture is an integral part of the course.

ELECTIVE

M.S. Band – 7th or 8th grade - Full Year

The objective of the Middle School Band class is to provide a foundation for musical literacy and instrumental proficiency. Cadets will be given a thorough grounding in pitch, scales, melody, harmony, meter and rhythm, texture, dynamics, articulation, and form, as they learn to play a band instrument. Students with previous band experience will have the opportunity to work on additional musical projects in the early part of the course and will be excellent role models and mentors for the students with no previous experience.

M.S. Art - 7th or 8th grade - One Semester

Middle School Art will provide an introductory studio art course for the middle school cadet. Basic techniques in drawing, painting, and sculpture will be introduced. This course assumes no prior experience in studio art. The cadet will be prepared for Art at the high school level should he choose to continue his exploration of studio art.

M.S. Study Skills - 7th or 8th grade - One Semester

The objective of the Study Skills course is to supplement instruction and provide services that support Middle School cadets in the development of skills necessary for their effective performance in the Army and Navy Academy academic environment. Cadets will study the techniques of organization, time management, test preparation, note-taking, reading comprehension, and memorization. Cadets will also engage in practice exercises common to middle and high school cognition.

M.S. Media Studies-7th or 8th grade- One Semester

This course is designed to explore the many forms of media that students encounter and investigate the techniques used in their production. Students will explore television, the print media, and the internet using a critical eye. Students will work on producing articles for a newspaper and a video media project.

HIGH SCHOOL COURSE DESCRIPTIONS

The following course descriptions describe the typical high school courses offered from year-to-year by grade level and are subject to change.

SOCIAL SCIENCE

World Geography- 9th grade- UC-Approved Course- Full Year

The primary objective of this course is to introduce and familiarize the cadet with the range and diversity of people and places in the world. A study of the world's regions will enable the cadet's understanding of the relationship among physical, economic, political and cultural elements that characterize the world today. We will explore how human and physical elements define the world's regions and investigate basic concepts related to: the contrast between developed and underdeveloped areas of the world, the growth and change of human population, and regional variations in economic systems.

World History- 10th grade- UC-Approved Course- Full Year

In this course, cadets examine the patterns of relationships and processes of both historical and cultural change across the world from pre-history to the present. Emphasis will be aimed at the different styles of civilization and to the effects of cultural contrast and diffusion. Ultimately, the cadet will not only know WHEN events happened but WHY those events happen and HOW those events affected the peoples lives.

United States History- 11th grade- UC-Approved Course- Full Year

United States History is a survey course that covers the colonial beginnings to the present time. Emphasis is placed on political, economic, and cultural facets of the twentieth century. Topics covered include the European imprint in the New World, the American Revolution, the Confederation-Constitution-Federalist period, the rise of popular democracy, Sectionalism/Nationalism, Civil War & Reconstruction, Industrial Revolution, Imperialism, Progressivism, World War I & 2, the Jazz Age, the Great Depression, The New Deal, post-war America, and contemporary presidential administrations from Truman through Obama.

AP United States History- 11th grade- UC-Approved Honors Course- Full Year

Pre-requisite: an "A" in both Geography and World History or a "B" in those courses with instructor approval

The U.S. History AP course is designed to provide cadets with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in US History. The program prepares cadets for intermediate and advanced level college courses by making demands upon them equivalent to those made by a full year introductory college courses. Cadets will learn to assess historical materials.

United States Government- 12th grade- UC-Approved Course- One Semester

This course is a study of the American Constitution with emphasis on congressional structure and function, powers of the President, and landmark decisions of the Supreme Court. The evolution of the American federal system through Constitutional amendment will also be examined, along with modern American politics and contemporary issues in the world today.

ENGLISH

English 9- 9th grade- UC-Approved Course- Full Year

The objective of English 9 is to develop greater writing skills and reading comprehension. Essays assigned include many different styles such as analytical writing, timed writing, personal writing, and creative writing. However, the focus is on the five-paragraph essay. Essay assignments emphasize the drafting process, the peer-critiquing process, and the editing process. In developing reading comprehension, we work together to discover main points and to remember what has been read. Beyond the vocabulary and grammar inherent in the reading and writing portions of the class, cadets study grammar and SAT preparation vocabulary on a weekly basis.

English 10- 10th grade- UC-Approved Course- Full Year

The objective of English 10 is to develop skills in reading comprehension, composition, and oral communication. The course exposes cadets to forms of literature including short stories, nonfiction, poetry, drama, and novels. Cadets learn how to read actively in order to improve comprehension and retention of their readings. Weekly lessons of vocabulary and grammar enable cadets to become better communicators both in speech and in writing. Monthly composition workshops refine writing styles of cadets and monitor their progress through individual portfolios. Throughout the course, SAT verbal preparation will be emphasized.

English 10 Advanced- 10th grade- UC-Approved Course- Full Year

Pre-requisite: an “A” or “B” in English 9 Advanced or an “A” in English 9 with instructor approval

The objective of English 10 Advanced is to provide an accelerated curriculum for those cadets aspiring to undertake honors-level courses in the 11th and 12th grade. Cadets learn advanced skills in reading comprehension, formal composition, and oral communication. A rigorous reading schedule exposes the cadets to many works of literature in order to prepare them for future course expectations in the advanced sections. Cadets will evaluate literature using the modes of discourse as specified in the AP Language and Composition course. Cadets will receive instruction and demonstrate competence in the various forms of interpretive writing including expository, argumentative, narrative, and descriptive. As in English 10, the Advanced section will emphasize practice and strategy for the SAT verbal section.

English 11- 11th grade- UC-Approved Course- Full Year

The objective of English 11 is to further the skills developed through English 10 and to give cadets a survey of American literature from the Colonial period to the present. For reading skills, cadets will survey the breadth of the American literary canon by reading essays, short stories, poems, plays, and novels from all of the American literary schools of thought. For writing skills, cadets will focus on (a) organization, which will be modeled by, but not dictated by, the five-paragraph essay format; (b) the standard usage rules of both grammar and punctuation; and (c) the necessity of specific examples embedded within the content of any well-developed essay. For thinking skills, cadets will be encouraged to form educated, individual opinions on the assigned subject matter while taking an active part in class discussions.

AP English Language & Composition - 11th grade- UC-Approved Honors Course- Full Year

Pre-requisite: an “A” or “B” in English 10 Advanced or an “A” in English 10 with instructor approval.

The objective of AP English 11 is to guide the highest-achieving cadets to become better writers and more critical readers. Through extensive reading and discussion of primarily non-fiction, and a wide variety of writing exercises and formal written assignments, students will gain rhetorical skills necessary for success in any college discipline. Several types of expository writing will be covered, while moving at a college level pace. This course is meant to replace a college writing and rhetoric course, and in preparation for this, students will take several longer papers through a series of drafts to learn to evaluate their own and others’ writing and rhetorical strategies. During the second semester, the class will include extensive preparation for the AP Language and Composition exam in May. Extensive outside reading, discussion, and written assignments will develop thinking and language skills in preparation for AP English 12. Review and mastery of the various modes of discourse required for AP English 12 is a primary course goal. This course differs from English 11 in both breadth and depth, requiring more reading, more writing and more higher-order thinking skills in all work.

English 12- 12th grade- UC-Approved Course- Full Year

The objective of English 12 is to further the skills developed in English 11 and to prepare the cadet fully for an entry-level college English class without the necessity for remediation. For reading skills, cadets will survey the breadth of British literature by reading essays, short stories, poems, plays, and novels from the Anglo-Saxon period of epic poetry up through the Modern Age of literature. For writing skills, cadets will move beyond the imposed boundaries of the five-paragraph essay and will learn the difference between opinion and fact; they will write essays covering the skills of description, comparison and contrast, analysis, argument, and detailed research. For thinking skills, cadets will be further encouraged to form educated, individual opinions on the assigned subject matter while taking an active part in class discussions.

AP English Literature and Composition - 12th grade- UC Approved Honors Course- Full Year

Pre-requisite: an “A” or “B” in English 10 Advanced or an “A” in English 10 with instructor approval.

The Advanced Placement course for Literature and Composition will guide the highest-achieving cadets to become better writers and more critical readers. Through extensive reading and response to a wide range of literary genres, and a wide variety of writing exercises and formal written assignments, students will gain analytical skills necessary for success in any college discipline. Several representative authors are studied in the genres of poetry, drama, fiction (novel and short story,) and expository prose while moving at a college level pace. This course is meant to replace a college introductory literature course, and in preparation for this, students will take several longer papers through a series of drafts to learn to evaluate their own and others’ literary analysis strategies. During the second semester, the class will include extensive preparation for the AP Literature and Composition exam in May.

MATHEMATICS

Pre-Algebra- 9th grade- Full Year

Pre Algebra is designed to develop an introductory understanding of algebra and geometry. It will also provide a smooth transition in mathematics from concrete experiences to more abstract experiences using multiple modes of learning.

Algebra 1 – 9th through 10th grade- UC-Approved Course- Full Year

Pre-requisite: successful completion of Pre-Algebra

The objective of Algebra 1 is to reinforce the skills developed in pre-algebra: relating addition, subtraction, multiplication, and division of facts with positive and negative numbers; manipulating, complex algebraic expressions; solving and graphing problems using linear, quadratic, and equation systems; and introducing the use of functional notations.

Geometry - 9th through 11th grade- UC-Approved Course- Full Year

Pre-requisite: successful completion of Algebra I

The objective of Geometry is to improve on the skills developed in algebra: manipulating, complex algebraic expressions; solving and graphing problems using linear, quadratic, and equation systems; and introducing geometric terms and ideas; points, lines, angles, reasoning, congruent and similar triangles, polygons, transformations, circles, planar and space measurements.

Algebra 2 - 10th through 12th grade- UC-Approved Course- Full Year

Pre-requisite: successful completion of both Algebra I and Geometry.

Algebra 2 will expand upon the mathematical concepts of Algebra I and Geometry. Emphasis will be placed on abstract thinking skills, the function concept, and the algebraic solutions of problems in various content areas. Content areas include, but are not limited to, linear relationships, matrices, quadratic equations, exponents and logarithms, trigonometry functions, the binomial theorem and series, combinations, and statistics. Calculators and/or computers will be used to aid in the solution of problems.

Finite Math-11th or 12th grade-Currently under review for UC approval-Full Year

Pre-requisite: successful completion of Algebra II

Finite Math is a collection of topics that guide students in organizing and analyzing information by using analytical thinking skills. The course focuses on higher level math topics, such as matrices, linear programming, logic, set theory, probability and statistics, as well as reinforcing college entrance skills. Many of these topics are shown through the perspective of the working world.

Pre-Calculus- 11th or 12th grade- UC-Approved Course- Full Year

Pre-requisite: an "A" or "B" in Algebra 2 or Statistics.

Pre-Calculus will have cadets review algebra, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations, matrices and determinants, sequences and probability, the unit circle, trigonometry and analytic trigonometry, analytic geometry, vectors, and limits; furthermore, it will provide an introduction to Calculus. A non-calculator approach will be emphasized.

AP Calculus- 12th grade- UC-Approved Honors Course- Full Year

Pre-requisite: an "A" or "B" in Pre-Calculus.

AP Calculus will explore the concepts of limits, differential calculus, and integral calculus. Basic derivatives and derivatives of products, quotients, logarithmic and trigonometric functions will be covered. Indefinite and definite integrals will be introduced as tools for finding the area under a curve, the area between curves, and the volumes of solids of revolution. This course is designed for the most advanced mathematical cadets only. Cadets are expected to take the Calculus AB exam in May.

LAB SCIENCE

Biology- 9th through 10th grades- UC-Approved Course- **Full Year**

Pre-requisite: concurrent enrollment in or successful completion of Algebra I and strong English skills

Biology will provide a meaningful laboratory-based science course that develops the cadet's ability to analyze and synthesize scientific information. The major focus centers on cellular functions, plant classification and structure, human physiology, continuation of life, and evolution. Cadets develop an appreciation of living organisms and the environment that supports their existence. Finally, the cadets will be encouraged to assess their attitudes and behavior patterns and to understand the impact their lifestyle choices have on their communities and on their own well-being.

Physics- 10th through 12th grades- UC-Approved Course- **Full Year**

Pre-requisite: concurrent enrollment in Geometry and successful completion of Algebra I.

Physics will provide cadets with the lifelong science skills necessary to excel in the modern science world. These skills will be accomplished through laboratory work including computer integrated laboratory processes, experimental design, error and analysis, teamwork, formal written and verbal communication, problem solving, algebraic and trigonometric functions. Students will learn about forces, motion, energy, electricity and a wide variety of physical science topics.

Chemistry- 10th through 12th grades- UC-Approved Course- **Full Year**

Pre-requisites: successful completion of Biology and concurrent enrollment in or successful completion of Algebra 2.

Chemistry will provide a study of properties and transformation of matter under normal conditions where molecules dominate. Cadets taking this course will learn methods used by scientists, compositions of matter, chemical symbols, chemical reactions, physical and chemical properties of matter, stoichiometry, atomic and electronic structures, chemical bonding, the states of matter, acids and bases, and reactions in solutions. Cadets will learn to do calculations associated with chemical reactions. Cadets will also be given a brief introduction to equilibrium and oxidation-reduction reactions.

AP Biology- 10th through 12th grades- UC-Approved Honors Course- **Full Year**

Pre-requisite: an "A" in Biology or a "B" with instructor approval; concurrent enrollment in or successful completion of Chemistry.

The AP Biology course is the equivalent of a college-level introductory biology course usually taken by biology majors during their first year. This course differs from regular and honors Biology with respect to the kind of textbook used; the pace, range, and depth of topics covered; the kind of laboratory work done by cadets; and the time and effort required of the cadets. All cadets are expected to take the AP exam in May.

AP Physics- 11th or 12th grade- UC-Approved Honors Course- **Full Year**

Pre-requisite: successful completion of or concurrent enrollment in Pre-Calculus with instructor approval.

AP Physics is the equivalent of a general physics course taken in college. AP Physics is a problem-solving intensive course covering Newtonian mechanics, thermal physics, electricity and magnetism, wave and optics, and atomic and nuclear physics. This course will be taught with emphasis on the AP Exam administered at the end of the year.

AP Chemistry- 11th or 12th grade- UC-Approved Honors Course- **Full Year**

Pre-requisites: an "A" in Chemistry or a "B" with instructor approval; successful completion of Algebra 2.

AP Chemistry is the equivalent of a general chemistry course usually taken in the first year of college. This course differs from Chemistry with respect to the textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the laboratory work done. All cadets in this course will be expected to take the AP Exam administered at the end of the year.

LOTE (Language Other Than English)

Spanish 1- 9th through 11th grade- UC-Approved Course- Full Year

Spanish 1 will emphasize structural awareness, cultural acquaintance, and communication skills. Cadets will gain information about the civilization, cultures, and customs of the Spanish-speaking people, and they will appreciate the importance of Spanish in the world; they will learn the basics of Spanish grammar and usage; they will develop the four basic language skills of listening, speaking, reading, and writing. This is the first year course in a four-year sequence designed for the non-Spanish speaking cadet.

Spanish 2- 9th through 12th grade- UC-Approved Course- Full Year

Pre-requisite: successful completion of Spanish 1.

Spanish 2 will continue to build on the cultural awareness, communication skills, and an understanding of the structure of the Spanish language. Cadets will develop Spanish vocabulary; will understand and use various verb tenses; will learn elements of Spanish grammar; will speak, read, write, and understand basic conversational Spanish; and will expand knowledge of specific Hispanic cultures. This is the second course in a four-year sequence.

Spanish 3- 9th through 12th grade- UC-Approved Course- Full Year

Pre-requisite: successful completion of Spanish 2.

Spanish 3 will provide a more in-depth development of cultural awareness and communication skills. Cadets in the course will expand and deepen their knowledge of Spanish civilization, culture, and customs. They will increase their understanding of grammar and usage with increased emphasis on pronunciation, vocabulary building, conversational fluency, and composition. They will be exposed to samples of genuine Spanish literature and journalistic prose. This class is the third in a four-year sequence.

Spanish 3 Honors-9th through 12th grade-UC Approved Course- Full Year

Pre-requisite: an "A" in Spanish 2 with instructor approval.

Spanish 3 Honors will instill communicative proficiency and literacy through the continuing acquisition of skills in listening comprehension, speaking, reading, and writing; all of these will focus on the acquisition of a firm linguistic base. Continued development of a global perspective with increased knowledge and appreciation of Hispanic history, geography, and culture will be fostered. Cadets will be introduced to authentic Hispanic literature.

AP Spanish Language- 10th through 12th grade- UC-Approved Honors Course- Full Year

Pre-requisite: an "A" or "B" in Spanish 3 Honors or an "A" in Spanish 3 with instructor approval.

AP Spanish will provide the cadets the ability to comprehend formal and informal spoken Spanish. Cadets will acquire a stronger vocabulary and a greater grasp of structure for accurate reading of newspaper articles, magazine articles, and modern Spanish literature. Cadets will also acquire the ability to compose expository passages and the ability to express ideas orally with accuracy and fluency. The AP Spanish course covers the equivalent of a third-year college course in advanced Spanish writing and conversation. Cadets are expected to take the AP Spanish Language exam in May.

French 1- 9th through 11th grade- UC-Approved Course- Full Year

French 1 will develop basic skills in listening, speaking, reading, and writing the French language through a variety of communicative activities and written exercises. Core conversations introduce the vocabulary and grammar in each chapter. French culture is an integral part of the course.

French 2- 9th through 12th grade- UC-Approved Course- Full Year

Pre-requisite: successful completion of French 1.

French 2 will review and reinforce the basic grammar and vocabulary covered in French 1. New vocabulary and structures are presented in dialogue form and expanded upon by a variety of communicative activities, explanations, and exercises. Reading selections are based on the cultural topic of the lesson. Cadets will improve proficiency in all four-language skill areas and will broaden their appreciation for French civilization and culture.

French 3- 9th through 12th grade- UC-Approved Course- Full Year

Pre-requisite: successful completion of French 2.

French 3 will reinforce and build upon previous French courses. Core conversations encourage conversational fluency and the writing of short compositions. Structure, vocabulary, and culture are interrelated. Classes at this level are small, and the approach is tailored to fit the needs and abilities of the cadets. Literature is introduced to analyze French themes and culture. Use of the video series exposes cadets to an immersion of the language that covers all modalities of learning. Cadets at the French 4 level will work on more advanced material than the French 3 cadets, but both levels will attend the class together.

VPA (Visual and Performing Art)

Advanced Marching Band- 9th through 12th grades- UC-Approved Visual and Performing Art Course- Full Year

Pre-requisite: Instructor approval

The Advanced Band class will provide a foundation in musical literacy and instrumental proficiency. Course topics include pitch, melody, harmony, meter and rhythm, texture, dynamics, articulation, form, music vocabulary, and performance. The principles with each topic can be applied to the variety of musical pieces that the cadets learn to play. The difference between the two high school levels of Band is the cadet's level of instrumental proficiency. Moreover, all cadets in this class will be required to participate in the Academy's parades as part of the marching band, in the two concerts performed each year, and in other performances on and off the Academy campus.

Art*- 9th through 12th grade-*Currently under review for UC approval as a Visual and Performing Art Course-Full Year

Art will have the cadet develop creative artistic work through a variety of materials and techniques. Cadets will be introduced to the artistic concepts of line, color, space, form, shape, and texture. There will be a range of 2-D and 3-D work taught including painting, drawing, collage, and sculpture. The cadet will have written and oral critiques of artwork.

AP Art- 10th through 12th grade- UC-Approved Honors Course- Full Year

Pre-requisite: successful completion of Intermediate Art and instructor approval

AP Art is oriented toward cadets who excel in art and want to develop a body of work in a single area of concentration. Cadets are expected to develop that concentration to a depth and breadth sufficient to submit an AP Art portfolio in May.

Band*-9th through 12th grades--*Currently under review for UC approval as a Visual and Performing Art Course-Full Year

The Band class will provide a foundation for musical literacy and instrumental proficiency. Students will be given a thorough grounding in pitch, scales, melody, harmony, meter and rhythm, texture, dynamics, articulation, and form, as they learn to play a band instrument. Music theory will also be introduced to further enhance student musicianship. Moreover, all cadets in this class will be required to participate in the Academy's parades as part of the marching band, in the two concerts performed each year, and in other performances on and off the Academy campus

Digital Photo*-9th through 12th grades-*Currently under review for UC approval as a Visual and Performing Art Course-Full Year

The Digital Photography class places an emphasis on approaching the world of photography as a means of artistic expression. Digital Photography is a digital art class where students learn about the composition of a photograph and the technical aspects of the camera. They will also learn art theory and become skilled in Adobe Photoshop, a popular software tool used by professionals in the digital art field. General computer experience is recommended, but photography experience and prior knowledge of Photoshop is not required. This course is project-based so all cadets will be able to learn at their own pace and create meaningful pieces to add to their portfolio.

Drama - 9th through 12th grades- UC-Approved Visual and Performing Art Course - Full Year

Drama will introduce the basics of Drama and develop an appreciation of dramatic literature and the dramatic profession through reading scripts and through reading and writing projects. Through dramatic activities, cadets are provided an arena to improve and polish personal dramatic skills.

Guitar- 9th through 12th grades- UC-Approved Visual and Performing Art Course- Full Year

Pre-requisite: Instructor approval.

The objective of Guitar is for the cadet to acquire basic performance skills on the guitar. In the process he will learn the fundamentals of music theory and musical literacy; he will become familiar with different musical styles and techniques. His success in the course will give him a firm grounding for further musical study.

Intermediate Art- 10th through 12th grade- UC-Approved Visual and Performing Art Course- Full Year

Pre-requisite: successful completion of Beginning Art or instructor approval.

Intermediate Art will explore further the skills developed in Beginning Art. In particular, line and gesture drawing, shading, shape, value, space, texture, the color spectrum, and perspective are among the topics explored. The course is divided into one unit that examines art analysis and three units that combine the study of the above topics with the study of notable artists. Cadets are prepared for continued art study in either AP Art or Art History and in their post-secondary studies, if they desire.

Music Technology- 9th through 12th grades- UC-Approved Visual and Performing Art Course- Full Year

Music Technology will provide the cadet with an understanding of music fundamentals and computer software that facilitates music making. Cadets will learn basic piano skills and apply computer technology to the creation of musical arrangements.

Photography*- 9th through 12th grades- *Currently under review for UC approval as a Visual and Performing Art Course-Full Year

Photography will use black-and-white photography for the purpose of providing fundamental instruction in camera types and usage, film processing and printing, design elements and principles, and the sociological and historical significance of the art.

Photography 2- 10th through 12th grades- UC-Approved Visual and Performing Art Course- Full Year

Pre-requisite: successful completion of Photography 1

Photography 2 will provide instruction for cadets who want to expand upon their knowledge and skills attained in Photography I. Emphasis will be placed on creative expression and visual impact of cadets' photographs.

ELECTIVE

AP Psychology- 11th or 12th grade- UC-Approved Honors Course- Full Year

Pre-requisite: at least a "B" average in the previous year's English course

This course, which is correlated to an introductory college-level course, is designed to have cadets examine systematically and scientifically the behavior and mental processes of human beings and other animals. Cadets are exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within psychology. They will also learn about the ethics and methods psychologists use in their science and practice. This course follows the AP Psychology curriculum and prepares cadets for that examination.

Economics-12th grade- 12th grade-UC Approved Course-One Semester (REQUIRED)

During the course of this one semester class, students will demonstrate the capacity to identify and verbalize their understanding of fundamental economic concepts, microeconomics, and macroeconomics. Specifically, students will explore and make reasoned decisions regarding economic systems and decisions making, business organizations, demand, supply, prices and decision making, market structures, and employment.

ESL (English as a Second Language) - 9th through 12th grades- Full Year

ESL (English as a Second Language) will provide intensive language acquisition training as well as both oral and auditory training in English. The study of vocabulary and essential English conventions will be emphasized. Cadets will practice writing skills in their newly acquired language. In addition, through the use of newspapers and periodicals, cadets will be exposed to their new culture and the real dilemmas faced by human beings. The primary function of ESL is to serve as a transitional link for limited English proficiency cadets and the regular course offerings of the English department. This course, although labeled an *elective*, will be required of cadets who need some extra help in their regular English classes.

Physical Science-9th through 12th grades-Full Year

Pre-requisite: successful completion of Biology

Physical Science will provide students with the lifelong science skills necessary to excel in the modern science world. The course work will include studying concepts that are based in chemistry, physics and earth and space science. These skills will be accomplished through laboratory processes, experimental design, error and analysis, team work, formal written and verbal communication, problem solving, algebraic and trigonometric function manipulation, and creative thinking.

Yearbook- 9th through 12th grades- Full Year

Yearbook will have cadets produce a high quality yearbook for the cadets, the patrons, and the staff of ANA to read and enjoy for years to come. During the course of the school year, cadets will learn the importance of personal interviewing, journalistic writing, taking photographs, creating layout and design, and meeting predetermined deadlines. They will also learn to combine journalistic integrity with the financial end of producing a well-crafted and timely publication.

JROTC/LEADERSHIP EDUCATION AND TRAINING

The JROTC program prepares high school students for leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. It is a stimulus for promoting graduation from high school and it provides instruction and rewarding opportunities which will benefit the student, community, and nation.

LET 1-9th grade- Full Year (REQUIRED)

The mission of Leadership Education and Training (LET) is to motivate first year JROTC cadets to be better citizens. To accomplish this purpose, the text discusses citizenship, leadership, and a number of other courses designed to help the cadets succeed in high school and after graduation. Cadets wear uniforms every day. Extracurricular activities include: Color Guard, Drill team, and Rifle team competition, Service Learning Projects, and participation in local community events.

LET 2-10th grade- Full Year (REQUIRED)

The second year of Leadership Education and Training is split into units including: Techniques of Communication, Leadership, Cadet Challenge, Leadership Lab, First Aid, Map Reading, History, Your American Citizenship, Career Opportunities, and Role of the U.S. Army. The wearing of the uniform and extracurricular activities are the same as for LET I.

LET 3-11th grade- Full Year (REQUIRED)

The third year of Leadership Education and Training provides additional leadership situations. In this year students will not only be more involved as teachers and leaders within the cadet battalion, but they will also do more independent studies in the areas of communication, leader, first aid, history, map reading, career opportunities, and technology awareness. The wearing of the uniform and the extracurricular activities are the same as for LET I.

LET 4-12th grade- Full Year (REQUIRED)

The fourth-year cadets are responsible for the daily cadet administration and perform as commanders and staff officers. They act as assistant instructors in some subject areas for other JROTC classes. They continue to develop their leadership skills and plan special unit events such as the military ball and the annual awards banquet as well as several Leadership camps.

ADVANCED, HONORS, & AP PREREQUISITES

In the following lists, a distinction has been made between the pre-requisites for returning and incoming cadets. We have developed separate policies to ensure proper course placement for new cadets. In disciplines where mid-year advancement is possible, a separate policy has also been established. In cases where there are mixed semester grades, a 3.5 average must be maintained in the previous year's course to qualify for Advanced/Honors/ AP placement.

SOCIAL SCIENCE

AP United States History

Returning: (1) an "A" in both Geography and World History or a "B" in those courses with instructor approval
Incoming: an "A" in both Geography and World History at the previous school and/or review of standardized tests with the Department Chair's approval

AP Psychology

Returning: an "A" or "B" in the previous year's English course
Incoming: an "A" in the previous year's English course with the Department Chair's approval

ENGLISH

These pre-requisites apply to each English Advanced/AP course, regardless of grade level.

Returning: an "A" or "B" in the previous year's Advanced/Honors course or an "A" in the regular-level course with instructor approval
Incoming: an "A" in the previous school's Advanced/Honors course and/or review of standardized tests with the Department Chair's approval
Mid-Year: an "A" in the regular-level course with instructor approval

MATHEMATICS

AP Calculus

Returning: an "A" or "B" in Pre-Calculus or an "A" in Algebra 2 Advanced with a passing grade on a departmental proficiency exam
Incoming: (1) an "A" in Pre-Calculus or a "B" with instructor approval or (2) an "A" in Algebra 2 Advanced with a "B" or better in summer college-level Pre-Calculus course or (3) an "A" in Algebra 2 Advanced with an 80% or better on Math Department Calculus Placement Exam.

LAB SCIENCE

AP Biology

Returning: (1) an "A" in Biology or a "B" with instructor approval and (2) concurrent enrollment in or successful completion of Chemistry
Incoming: (1) an "A" or "B" in Biology Honors or an "A" in Biology with the current A.P. Biology Teacher's approval and (2) concurrent enrollment in or successful completion of Chemistry

AP Chemistry

Returning: (1) an "A" in Chemistry or a "B" with instructor approval and (2) concurrent enrollment in or successful completion of Algebra 2
Incoming: (1) an "A" or "B" in Chemistry Honors or an "A" in Chemistry with the current A.P. Chemistry teacher's approval and (2) concurrent enrollment in or successful completion of Algebra 2

AP Physics

Returning: concurrent enrollment in or successful completion of Pre-Calculus
Incoming: concurrent enrollment in or completion of Pre-Calculus with a “B” or better at previous school with the current A. P. Physics teacher’s approval.

LOTE

Non-Native Speakers

Returning: an “A” or “B” in the previous level’s Advanced/Honors course or an “A” in the previous year’s regular-level course with instructor approval
Incoming: an “A” in the previous year’s Advanced/Honors course or a “B” with the Department Chair’s approval
Mid-Year: an “A” in the regular-level course with instructor approval

Native Speakers

Returning: an “A” or “B” in the previous level’s Advanced/Honors course or an “A” in the previous year’s regular-level course with instructor approval
Incoming: placement will be determined by performance on oral and written examination given by the Foreign Language Department Chair
Mid-Year: an “A” in the regular-level course with instructor approval

VPA

AP Art

Returning: successful completion of Intermediate Art and instructor approval
Incoming: completion of intermediate-level art course with the Department Chair’s approval

COURSE STREAMS

SOCIAL SCIENCE

This chart is designed to indicate the possible paths that cadets may take in our Social Science program. From the 7th grade on, there exists some flexibility in this program, particularly for those cadets with advanced abilities. We do not allow summer acceleration in the Social Science program; however, a summer course taken for *enrichment only* can sometimes provide a beneficial primer for the upcoming year of study. The cadet’s current Social Science instructor will submit recommendations for AP placement to the Social Science Department Chair according to the prescribed pre-requisites. The Department Chair and the Head of Upper School will review the recommendations before final approval is given. Our intent is to place cadets in the course that will most benefit their study of the social sciences by considering the cadet’s current aptitude and ability in those subjects.

	Basic Stream	Advanced Stream	AP Stream
Grade 7	Geography 7		
Grade 8	U.S. History 8		
Grade 9	World Geography		
Grade 10	World History		
Grade 11	U.S. History		AP U.S. History
Grade 12	U.S. Gov. (1 sem.)		

ENGLISH

This chart is designed to indicate the possible paths that cadets may take in our English program. From the 7th grade on, there exists some flexibility in this program, particularly for those cadets with advanced abilities and those with limited proficiency. We do not allow acceleration in the English program; however, a summer course taken for *enrichment only* can sometimes provide a beneficial primer for the upcoming year of study. The cadet's current English instructor will submit recommendations for Advanced/Honors/AP placement to the English Department Chair according to the prescribed pre-requisites. The Department Chair and the Head of Upper School will review the recommendations before final approval is given. Our intent is to place cadets in the course that will most benefit their study of English language and literature by considering the cadet's current aptitude and ability in English.

	Basic Stream	Advanced Stream	AP Stream
Grade 7	English 7		
Grade 8	English 8		
Grade 9	English 9		
Grade 10	English 10	English 10A	
Grade 11	English 11		AP English Language
Grade 12	English 12		AP English Literature

Advanced ESL is a course that can be taken in place of English 9 or English 10 (for a maximum of one year) by cadets in need of additional English language exposure. Such cadets may also take the ESL course as an elective for additional support.

MATHEMATICS

This chart is designed to indicate the possible paths that cadets can take in our Mathematics program. From the 7th grade on, there exists some flexibility in this program, particularly for those cadets with advanced abilities and those with limited proficiency. Generally, we do not allow acceleration in the Mathematics program (special approval for the Head of Upper School is required well in advance). However, a summer course taken for *enrichment only* can sometimes provide a beneficial primer for the upcoming year of study. The cadet's current Math instructor will submit recommendations for Advanced/Honors/AP placement to the Math Department Chair according to the prescribed pre-requisites. The Department Chair and the Head of Upper School will review recommendations before final approval is given. Our intent is to place cadets in the course that will most benefit their study of mathematics by considering current aptitude and ability in the subject.

	Basic Stream	Advanced Stream	AP Stream
Grade 7	Math 7	Pre Algebra	
Grade 8	Pre Algebra	Algebra 1	
Grade 9	Algebra 1	Geometry	
Grade 10	Geometry	Algebra 2	
Grade 11	Algebra 2	Pre-Calculus	
Grade 12	Finite Math or Pre-Calculus		AP Calculus

Note: All Algebra 1 courses and higher have a course pre-requisite.

Summer acceleration will be allowed only for very advanced cadets wanting to move from Algebra 2 Honors directly to AP Calculus. Such cadets must pass a college-level Pre-Calculus course or pass a Math Department acceleration exam to make such a move.

LAB SCIENCE

This chart is designed to indicate the possible paths that cadets can take in our Science program. From the 9th grade on, there exists some flexibility in this program, particularly for those cadets with advanced abilities and those with limited proficiency. We do not allow summer acceleration in the Science program; however, a summer course taken for *enrichment only* can sometimes provide a beneficial primer for the upcoming year of study. The cadet's current Science instructor will submit recommendations for AP placement to the Science Department Chair according to the prescribed pre-requisites. These recommendations will be reviewed by the Department Chair and the Head of Upper School before final approval is given. Our intent is to place cadets in the course that will most benefit their study of science by considering current aptitude and ability in the subject.

	Basic Stream	Advanced Stream	AP Stream
Grade 7	Life Science 7		
Grade 8	Earth Science 8		
Grade 9	Biology		
Grade 10	Biology or Physical Science	Physics or Chemistry	
Grade 11	Physics	Chemistry	AP Biology
Grade 12	Chemistry		AP Physics/AP Chemistry

Note: All upper school lab science courses and higher have a course pre-requisite.

LOTE (Language Other Than English)

This chart is designed to indicate the possible paths that cadets can take in our Language program. From the 9th grade on, there exists some flexibility in this program, particularly for those cadets with advanced abilities and those with limited proficiency. We do not allow summer acceleration in the Language Program; however, a summer course taken for *enrichment only* can sometimes provide a beneficial primer for the upcoming year of study. The cadet's current language instructor will submit recommendations for Advanced/Honors/AP placement to the Language Department Chair according to the prescribed pre-requisites. These recommendations will be reviewed by the Department Chair and the Head of Upper School before final approval is given. Our intent is to place cadets in the course that will most benefit their study of language and literature by considering current aptitude and ability in the chosen language.

	Basic Stream	Advanced Stream	AP Stream
Grade 7			
Grade 8		Spanish 1 or French 1	
Grade 9	Spanish 1 or French 1	Spanish 2 or French 2	
Grade 10	Spanish 2 or French 2	Spanish 3 or French 3	
Grade 11	Spanish 3 or French 3		
Grade 12			AP Spanish or AP French

Note: Level 2 courses and higher have a course pre-requisite.