



AMERICAN NICARAGUAN SCHOOL
CONNECTING THE GLOBAL COMMUNITY

Course Handbook 2014-2015



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ANS Diploma

These are the requirements for an ANS High School Diploma.

English 4 credits	Foreign Language 4 credits	Science 3 credits	Social Studies 4 credits
Mathematics 4 credits	Physical Education 2 credits	Fine Arts (Art, Drama, or Music) .5 credit	Electives* 6.5 credits

*Electives are classes that are not needed for an ANS diploma purposes including; Global Studies, Bachillerato, AP core classes above the required classes, additional Fine Arts, etc.

1 credit will be issued for a yearlong course.

.5 credit will be issued for a semester course.

.25 credit will be issued for a semester course that meets every other day.

Physical Education will receive .5 credit per semester regardless of meeting daily or every other day.

Students must receive a passing grade (D-, 60%) in order to receive credit. If a student fails a course they may retake the course or they may take a For-Credit exam for up to two courses, and if passed, bring their grade to 60%.

Note that electives courses that are listed in this course handbook may not be available every semester.

Nicaraguan Bachillerato

A student has to have taken these classes from 7-12th grade to receive the Nicaraguan Bachillerato.

A student cannot obtain the Bachillerato with a failed class on their transcript - a student will either retake the course or take the For-Credit Exam.

English 5 years	Spanish 5 years	Science 5 years	Social Studies 6 years
Mathematics 5 years	Physical Education 4 years	Economics	Fine Arts (Art, Drama, or Music)
History of Nicaragua	Geography of Nicaragua	Civics *	Sociology*
Philosophy*			

* Offered as a summer option at ANS

Global Studies

These are the requirements for completion of the Global Studies Academy Certificate.

Global Studies	Exploration of Global Religions	Environmental Science	French or Chinese (HS)	Sociology
Art & Society	AP Comparative Politics & Government	AP Human Geography	Philosophy	World Film & Music History

- Students must declare their interest in pursuing the Global Studies Academy Certificate by the beginning of their junior year in high school.
- Students must meet all of the regular requirements for graduation from ANS.
- Students must have a GPA of 3.0 or higher in order to receive the certificate upon graduation from ANS.
- Students must complete *A Community Capstone Project* prior to graduation.
- Students must participate in at least one international travel experience organized by ANS.
 - Participation in HACIA Democracy, Model United Nations, International Negotiations Project (INP), Global Issues Network (GIN), or a summer global travel experience organized by ANS satisfies this component of the certificate.
- Students are required to take five courses from the following list.
 - Introduction to Global Studies*
 - World Religions
 - Environmental Science
 - Philosophy or Sociology
 - French I or Chinese I
 - Art in Society
 - World Film & Music History
 - AP Comparative Politics & Government**
 - AP Human Geography**

* All students in the program are required to take Global Studies.

** All students in the program are required to take either AP Comparative Politics & Government OR AP Human Geography.

Fine Arts

A student needs one semester of Fine Arts (music, art, or drama)

Arts	Guitar	Music	Drama
Art I	Guitar I	Band	Drama I
Art II	Guitar II	Chamber Music	World Film
AP Studio Art	Guitar Ensemble	AP Music Theory	Entertainment Perspectives
Intro to Clay		Choir	Drama II

ART

Art I (0002)

.25 credit

9-12th grade

Prerequisite: None

We begin Art I focusing on drawing skills. Because students enter the class with a broad range of abilities, each student is encouraged to build on what he or she already knows. We also explore color theory, composition, abstraction, collage and other contemporary art practices. Throughout the semester time is dedicated to making art intuitively and building creativity.

Art II (0003)

.5 credit

9-12th grade

Prerequisite: Art I

Art II is a continuation of Art 1 with greater emphasis on fundamental skills while moving toward an exploration of developing an individual concept.

AP Studio Art (0005) 1 credit 11-12th grade

Prerequisite: Art II & teacher recommendation

“The AP Studio Art portfolios are designed for student who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios—2-D Design, 3-D Design and Drawing—corresponding to common college foundation courses.” (AP Studio Art Course Description) “Be an informed and critical decision-maker as you develop a portfolio that is personal to your individual talents and interests, while demonstrating mastery of design principles. Explore your creativity and become an independent thinker.” (College Board Course Overview)

Intro to Clay (0006) .5 credit 9-12th grade

Students will explore different ways of sculpting and building with locally harvested clay. Students study ancient and contemporary traditions and explore a variety of surface decoration techniques.

DRAMA

Drama I (0035) .25 credit 9-12th grade

Prerequisite: None

This course contains units designed to give students an overall introduction to theatre and acting. Improvisations, Acting Methods and Techniques, Staging, Theatre Terminology, the Business aspects, Monologue Performance, Scene Performance, Film Study, awareness and familiarity of current and past industry greats, Movement/Dance, Stage Combat and Character Analysis are all topics that will be covered in this semester long course. * **THIS IS A PERFORMANCE BASED CLASS** *

World Film (0039) .25 credit 9-12th grade

Prerequisites: None

This course explores some of the past and current influences of motion pictures on cultures and societies all over the world. The focus for the quarter will be on specific works from countries such as South Africa, Denmark, India, Japan and more. Students will study comedies, dramas and musicals, analyzing acting, directing and editing styles as they vary from country to country, as well as exploring the effects of movies on those societies and whether they have had an impact on other societies. The class will consist largely of Foreign Film Analyses, plus lectures, discussions, classwork, quizzes and homework assignments.

Entertainment Industry Perspectives (0037) .5 credit 9-12th grade

Prerequisites: None

This is a semester long course designed for students interested in the non-performance aspects of the entertainment industry. Students will learn about everything that goes on “behind the scenes”. This course covers topics such as, Stage Costume Design, Movie Costume Design, Make-up, Directing, Producing, Lighting, Sound, Set Design, Film Study and Analysis, Industry Jobs, Industry Unions, Music in Movies, Money making and the Industries, History of Television, History of Broadway and History of Films and Hollywood.

MUSIC (BAND & GUITAR)

High School Band (0025) .25 credit 9-12th grade

Prerequisites: Able to play a musical instrument

Weekly practices strengthen student’s techniques and ability to play different styles of music from all over the world. The School Band plays in most major school events and participates in AASCA’s Annual Music Festival. The School Band also strives to prepare students for professional participation in bands and/or orchestras at a university level.

Chamber Music (0026) .25 Credit 9-12th grade

Prerequisites: Able to play a musical instrument

A new music class is being added to study music all the way from classical to modern popular music. In this class the focus will be on individual students, duos, trios, and small groups. All levels are encouraged to participate.

A Capella Choir (0027) .25 credit 9-12th grade

Prerequisites: None

In A Capella Choir students experience singing in a group setting. Skills covered include breathing, vowel and consonant sounds, solfege singing, rhythm reading, part singing and blending voices. This is not a performance ensemble and students taking this class will not be required to sing in front of others besides those in the class. Experienced and inexperienced singers are welcome.

Beginner Guitar (Guitar 1) (0020) .25 credit 9-12th grade

Prerequisites: None

This is an introductory course aimed at developing skills necessary to play different kinds of music on the instrument. Students also learn different notation systems, a little music theory and get a taste of composition. By the end of this course, students will have the skills and knowledge necessary to play a variety of songs, and to use the many resources available to them to learn songs they choose on their own.

Advanced Guitar (Guitar 2) (0021) .5 credit 9-12th grade

Prerequisite: Completion of Guitar 1 or teacher recommendation.

The focus of the course is playing different styles of music, and students get a taste of rock, blues, flamenco, bossa nova, classical and folk music. Many assignments have a group performance element. In addition, they learn more advanced chords, scales and techniques and experiment with composition and recording.

Guitar Ensemble (0022) .5 credit 10-12th grade

Prerequisites: Completion of Guitar 2 or teacher recommendation

Students who have completed Guitar 2 can take a third semester of guitar with the permission of the instructor and their counselor. This is for students serious about the instrument, and requires more independent work. Guitar 3 assignments are longer and more challenging. Students are involved in choosing the content of the course and are expected to work and play at a higher standard.

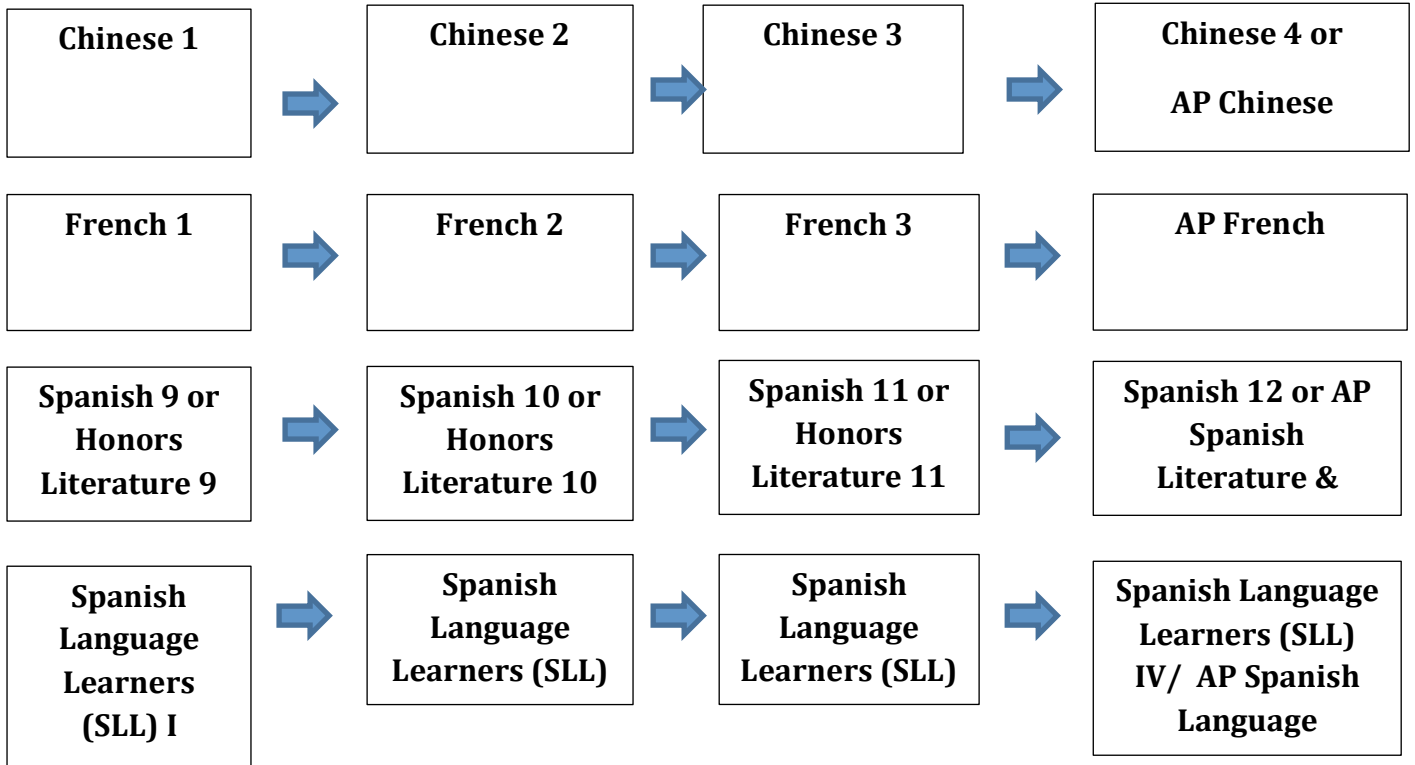
AP Music Theory (0024) 1 credit 11-12th grade

Prerequisite: Teacher recommendation

This class is a first year college level introduction to the elements of music. Students completing this course will have the skills necessary to analyze and compose Western (Classical) music and a greater understanding of many other styles of music as well. Aural and composition skills are integrated into each unit to increase understanding and give opportunities to experience and experiment with new concepts.

Foreign Language

A student has to have 4 years of a Foreign Language for graduation.



CHINESE

Chinese I (0051)

1 credit

8-11th grade

Prerequisite: None

This class begins learning the pinyin system, as students master 350 words for listening and speaking and over 170 characters for reading and 100 characters for writing. Students will be able to use simple sentences and ask questions.

Chinese II (0052)

1 credit

9-12th grade

Prerequisites: Chinese I

This class learns more than 360 basic words for listening and speaking, and about two-thirds of the oral language vocabulary for reading and half of it for writing, adjustable depending upon the students' learning pace. They continue learning more basic sentences and questions.

Chinese III (0053) 1 credit 9-12th grade

Prerequisites: Chinese II

Students will continue expanding their Chinese by 600 words and 137 grammatical sentences. The course content focuses on campus activities and daily life and situational dialogue practice. Students will do essay writing practice.

Chinese IV (0054) 1 credit 9-12th grade

Prerequisites: Chinese III

Students will continue expanding their Chinese by 600 words for listening and speaking. They will also have a simple understanding of Chinese culture, including social, historical, and geographical. They will use situational dialogue practice and essay writing practice.

AP Chinese (0055) 1 credit 9-12th grade

Prerequisites: Chinese III

In AP Chinese, students will add 625 words and 119 grammatical sentence to their repertoire. They will also have a thorough understanding of Chinese culture, including social, historical, geographical, ways of the world. They will use situational dialogue practice and essay writing practice.

FRENCH

French I (0060) 1 credit 9-12th grade

Prerequisite: None

This is the Beginner level students learn how say things about themselves, what they like and dislike, family, friends and school. They also learn how to order food in a restaurant. FRENCH 1 is the level for survival. Students work on four competences: verbal and written expression and comprehension. The materials we use are the Bien Dit! Level 1 and authentic documents like poems, songs and video. Students also participate in Francophonie Celebrations in March.

French II (0061) 1 credit 9-12th grade

Prerequisite: Completion of French I

In this level students are able to better apply and deepen what they have learned in level 1. They are encouraged to have conversations about what they do, what they have done and what they will do; in different verb tenses. In level 2 we continue to work in the 4 competences, with a larger focus on verbal expression. Students participate in Francophonie Celebrations in March. The materials we use are the Bien Dit! Level 2 and authentic documents like poems, songs, video and short novels.

French III (0062) 1 credit 9-12th grade

Prerequisite: Completion of French II

Students learn to talk about abstract concepts like love and friendship and to tell anecdotes about everyday life. They read and write short stories. They read and write original short stories. They also have debates about current events and the news. Students participate in Francophonie Celebrations in March.

AP French Language (0063) 1 credit 9-12th grade

Prerequisite: Completion of French III

The minimum requirement for this level is 80% in FRENCH 3 or a B-1 level in DELF-DALF standards. In this level students consolidate their knowledge of French. They are able to argue and debate, write essays and understand authentic documents like radio shows and French movies, newspaper articles and novels.

SPANISH

Spanish 9 (0070), Honors Spanish 9 (0075) 1 credit 9th grade

Prerequisite: Fluency in Spanish or Placement Test

In this class we explore, analyze and learn about Spanish medieval literature. We develop and work on writing, reading and speaking skills while we look at literature in a historical context.

Spanish 10 (0071), Honors Spanish 10 (0076) 1 credit 10th grade

Prerequisite: Spanish 9 or Placement Test

The 10th Grade Spanish course is designed in a way that students may develop and put into practice the four fundamental areas of the language: **Read, write, speak, listen**. This course combines theory with practice with exercises covering different aspects will be practiced in the classroom. Readings covering the different literary periods/movements in Spain will be analyzed, as well as other works of current interest.

Spanish 11 (0072) Honors Spanish 11 (0077) 1 credit 11th grade

Prerequisite: Spanish 10 or Placement Test

To learn and deeply analyze some of the most significant literary expressions of pre-Columbus America, the Conquest (XVI and XVII centuries), and the literary movements that occurred up to the XIX Century. Students will identify the contributions and characteristics of these literary movements in relation to the cultural identity and role of America in them.

Spanish 12 (0073) 1 credit 12th grade

Prerequisite: Spanish 11 or Placement Test

Spanish 12 is a two-semester program taught in Spanish – Literature of XX Century Hispanic America, and Nicaraguan Literature.

AP Spanish Literature & Culture (0074) 1 credit **12th grade**

Prerequisite: B or higher in SPANISH 11 and teacher recommendation.

This is a two-semester introductory course that will study the different literary movements, authors, and literary works written in Spanish of Spain, Latin America and the United States. Encourages interest in interdisciplinary study and cultural and historical relations of the different global contexts.

SPANISH LANGUAGE LEARNERS (SLL)

Spanish Language Learners I (0080) 1 credit **9-12th grade**

Prerequisite No prior Spanish

This course will help students to initiate in the Spanish language by learning vocabulary lessons and acquiring functional language. This gives the SLL beginners the tools they need in order to survive in a speaking Spanish country.

Spanish Language Learners II (0081) 1 credit **9-12th grade**

Prerequisite: SLL I or teacher recommendation.

The purpose of this course is to work in developing the four basic skills of the language as well as enhance the students' performance through a communicative approach and a solid foundation in grammar and vocabulary.

Spanish Language Learners III (0082) 1 credit **9-12th grade**

Prerequisite: SLL II or teacher recommendation.

The purpose of this course is to continue to work in developing the four basic skills of the Spanish language as well as enhance the students' language performance in and outside the classroom. This level emphasizes the use of proper grammar structures and writing styles.

Spanish Language Learners IV (0083) 1 credit **9-12th grade**

Prerequisite: SLL III or teacher recommendation.

This course aims to reinforce skills and basic skills. Continue to develop understanding and critical thinking through reading Latin American authors. Creates an interest in culture and literary studies.

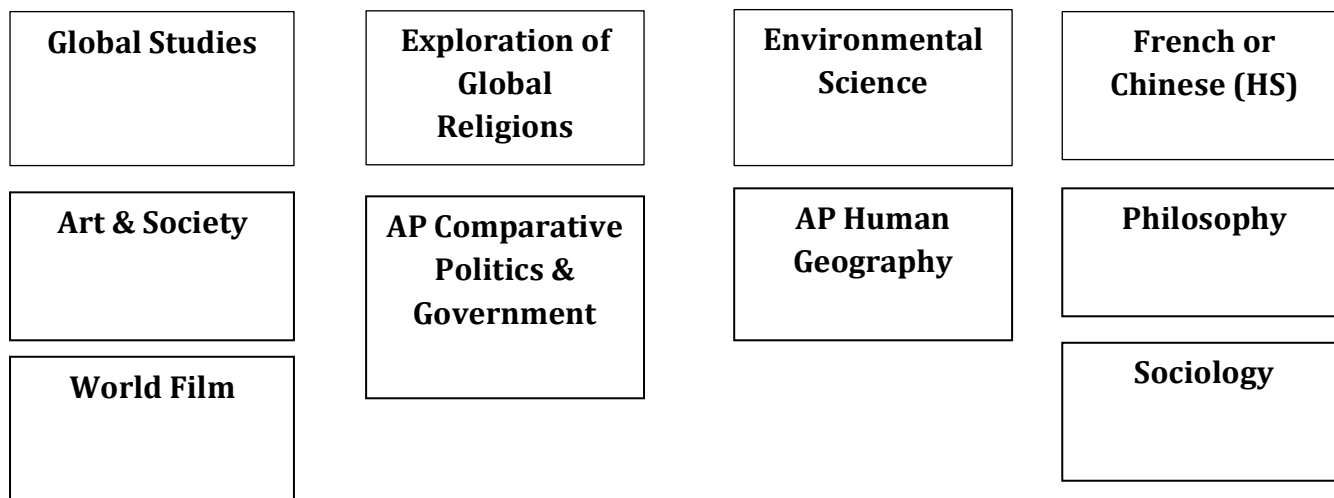
AP Spanish Language (0084) 1 credit **9-12th grade**

Prerequisite: SLL III or IV or teacher recommendation.

This course intends to help students pursue a college-level of reading comprehension, writing, and listening and speaking skills in Spanish. Upon the completion of this course, students have to take the corresponding AP examination that is administered in May.

Global Studies Courses

A student has to have Global Studies and AP US Comparative or AP Human Geography, and three other classes of their choice in order to receive the Global Studies Certificate.



AP Comparative Government (APCG) (0308) 1 credit 11-12th grade
Prerequisite: Teacher recommendation, test scores, and a B or higher in previous history class.

APCG is offered to all high school juniors & seniors, who have successfully completed both a standard Civics and preferably US History class. APCG is a course that covers with in-depth analysis the “AP 6” core countries UK, Russia, China, Iran, Mexico, and Nigeria. To this backdrop is added an emphasis on world societal issues, particularly the change-developments over time, as well as the “thematic focus” on Sovereignty, Authority, and Power; Political Institutions; Citizens, Society, and the State; Political and Economic Change; Public Policy. APCG is a challenging college-level introductory course in preparation for the AP exam.

AP Human Geography (0307) 1 credit 11-12th grade
Prerequisite: Teacher recommendation and B or higher in previous history class.

In this course we will study a systematic approach of human geography to understand the use of spatial concepts and landscape analysis to examine human organization of space and the spatial relationships at different scales ranging from the local to the global. We will develop the ability to interpret maps, data sets, and geographic models using atlases, graphs, and charts.

Environmental Science (0255) .5 credit 9-12th grade

Prerequisites: None

Environmental Science is a one-semester course designed to introduce students to the integrated sciences that explore and explain our world, and to prepare them for any environment-related courses they might take at the university level. A significant part of the scoring for this course will depend on the student's ability to conduct independent research on environmental topics, to analyze published information critically, and to present their findings.

Exploration of Global Religions (0310) .5 credit 10-12th grade

Preference given to seniority.

Global Religions seeks to study the main religious traditions across the world. Each religion has its own history, narratives, creeds, rituals, symbols, and pivotal characters that create a unique belief system. We will explore how these belief systems are a vital aspect of cultural identity for many across the globe.

Global Studies (0309) .5 credit 9-12th grade

Prerequisites: None

Required for the Global Studies Certificate, this class introduces students to globalization, the interconnections among people and places as a result of this phenomenon and various challenges within each thematic area. Topics include: processes of globalization, indicators of economic and social development, sustainable development issues, global and geo-politics, cultural integration/coherence and diversity.

Philosophy (0314) .5 credit 10-12th grade

Preference given to seniority.

This class examines, what has largely been considered, the most fundamental questions of human existence. Relying on our rational and logical skills, we will study what many philosophers believe to be the answers to these deeply puzzling issues.

Sociology (0313) .5 credit 9-12th grade

Prerequisites: None

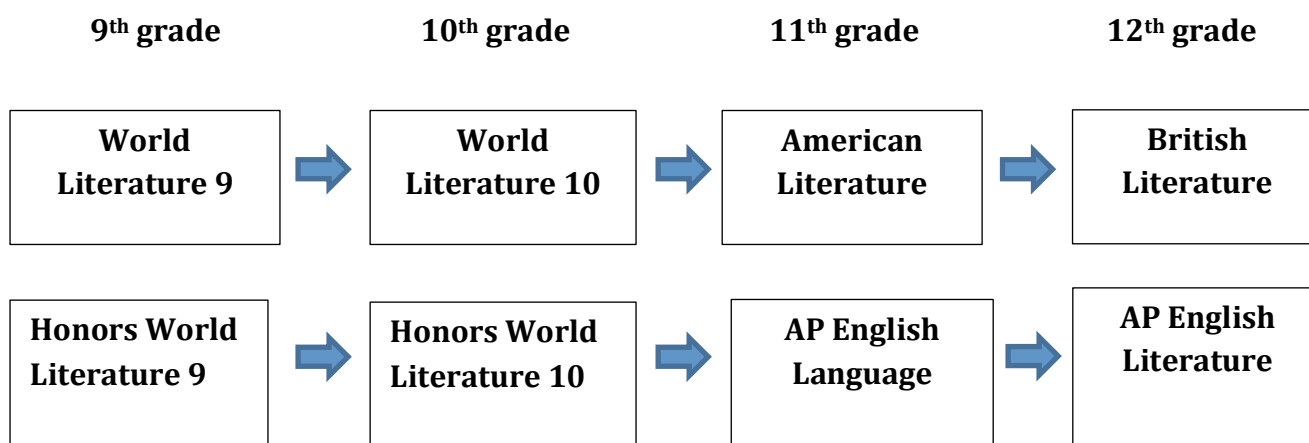
Sociology is the scientific study of human interaction and human group behavior in modern societies. This course covers the following concepts which are basic to sociology: (1) culture and social structure (2) the individual in society, (3) social inequality, (4) social institutions, and (5) changing social world, as related to sociology.

World Film (0039)**.25 credit****9-12th grade***Prerequisites: None*

This course explores some of the past and current influences of motion pictures on cultures and societies all over the world. The focus for the quarter will be on specific works from countries such as South Africa, Denmark, India, Japan and more. Students will study comedies, dramas and musicals, analyzing acting, directing and editing styles as they vary from country to country, as well as exploring the effects of movies on those societies and whether they have had an impact on other societies. The class will consist largely of Foreign Film Analyses, plus lectures, discussions, classwork, quizzes and homework assignments.

Language Arts

A student has to have a minimum of 4 years of Language Arts.



9th World Literature (0100) **1 credit** **9th grade**
Prerequisite: 8th grade English

Students will explore literature from different cultures and eras, identifying the many factors that affect the final product and reader. Students will consider literary works in relation to their own lives and experience. Students must demonstrate mastery of grammar and usage and will develop their written and spoken vocabularies. Summer readings are required.

9th Honors World Literature (0120) **1 credit** **9th grade**
Prerequisite: B or higher in 8th grade English and teacher recommendation.

Honors English is a program designed to engage students in active, high-level learning, thereby ensuring that every student develops the skills, habits of mind, and concepts they need to succeed in high school, AP courses, and in college. Students will explore literature from different cultures and eras, identifying the many factors that affect the final product and reader. Students will consider literary works in relation to their own lives and experience. Students must demonstrate mastery of grammar and usage and will develop their written and spoken vocabularies. Summer readings are required.

10th World Literature (0101) **1 credit** **10th grade**
Prerequisite: 9th grade World Literature

This course has a variety of texts from around the world – from William Golding’s *Lord of the Flies* to Alexander Dumas’ *The Count of Monte Cristo*. Students are expected to interpret, analyze, evaluate and critique these texts to show their understanding of the literature. Assessments for this class include essays, tests, quizzes, homework/classwork, and projects/presentations.

10th Honors World Literature (0121) 1 credit 10th grade

Prerequisite: B or higher in 9th grade English and teacher recommendation.

This class will include a variety of texts from around the world – from William Golding’s *Lord of the Flies* to Alexandre Dumas’ *The Count of Monte Cristo*. Students are expected to interpret, analyze, evaluate and critique these texts to show their understanding of the literature. Students are expected to do more in-depth analysis of texts and complete more writing tasks than regular English 10. Assessments for this class include essays, tests, quizzes, homework/classwork, and projects/presentations.

American Literature (0102) 1 credit 11th grade

Prerequisite: 10th grade English

In this course, we will read, discuss, analyze, and write about a wide variety of texts, primarily by authors from the United States. As we read, we will consider the following questions: How do pressures of conformity and non-conformity affect our lives? How do one’s race, ethnicity, gender, income level, and/or sexuality affect one’s image and self-perception as American? For whom is the American Dream a reality and for whom is it a myth? The major novels covered in this course are: *The Crucible* (Arthur Miller); *The Great Gatsby* (F. Scott Fitzgerald); *Catcher in the Rye* (J.D. Salinger); *The Joy Luck Club* (Amy Tan). In addition, we will read and analyze a variety of poetry, short stories, song lyrics, and non-fiction selections.

AP English Language and Composition (0122) 1 credit 11th grade

Prerequisite: Honors World Literature with a B or higher and teacher recommendation

This English course is designed to engage students in the careful reading and critical analysis of a variety of predominantly non-fiction writings. A primary goal is for the student to have a clear understanding of the author’s purpose, audience, and linguistic and rhetorical choices. The course is centered on rhetoric – the art of constructing and presenting arguments in writing. Besides frequent informal and formal writing assignments, students should also expect to be challenged to examine and apply language strategies through small and large group discussions, activities, presentations, and debates.

British Literature (0103) 1 credit 12th grade

Prerequisite: 11th grade English

This course is a study of British literature from the Anglo-Saxon era to modern times in a variety of genres including poetry, short stories, novels and plays. Students are required to approach studies in a more analytical manner in preparation for college. Writing practices include the reflective or "college" essay, the cause and effect essay and expound upon several upper-level literary analysis skills.

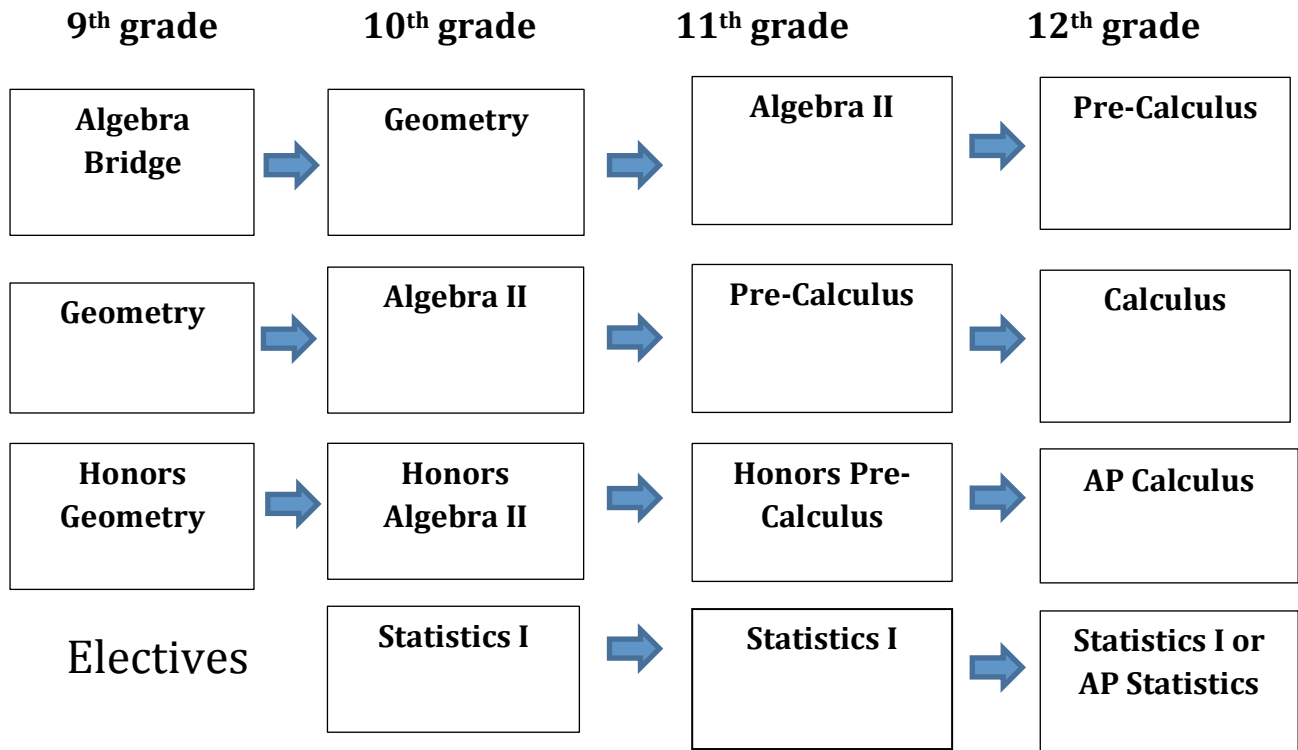
AP English Literature (0123)**1 credit****12th grade**

Prerequisite: AP English Language or American Literature with a B or higher and teacher recommendation

This course will follow the curricular requirements outlined by the College Board in the AP English Literature and Composition Course Description which focuses on building the skills necessary for college-level reading, writing, critical and analytical thinking. Aside from an extensive study of Perrine's *Literature: Structure, Sound, and Sense*, materials will include works from a variety of time periods and genres, and writing assignments will include in-class essays as well as formal process essays with several opportunities for revision. This is considered a college-level course, meaning students will be asked to read and analyze challenging, provocative, dense and sometimes controversial material. Students will also be expected to come prepared to challenge themselves and others with interesting discussion points on a regular basis.

Mathematics

A student has to have 4 years of Math to graduate and a minimum of Pre-Calculus.



Algebra Bridge (0150)

1 credit

9-10th grade

Prerequisites: Pre-Algebra

This course covers a variety of algebraic topics including equations, polynomials, factoring, fractions, functions, linear equations, inequalities, rational and irrational numbers. This course prepares students to take higher level mathematics by reinforcing Algebra skills.

Geometry (0151)

1 credit

9-10th grade

Prerequisite: Algebra 1

This course serves as the foundational course for higher levels of math. A variety of Geometrical topics like points, lines, planes, angles, congruent triangles, quadrilaterals, circles, and polygons will be covered.

Honors Geometry (0170) **1 credit** **9-10th grade**

Prerequisite: Algebra 1

Honors Geometry is designed to develop spatial concepts and insight into the relationships between plane figures such as points, lines, polygons, and circles. To appreciate the power of logic as a tool for understanding the world, the concept of proof is a substantial focus of the course.

Algebra 2 (0152) **1 credit** **10-11th grade**

Prerequisite: Geometry

Students will use mathematical statements and representations to describe linear, exponential, logarithmic, rational, quadratic, and trigonometric functions. Students will investigate and generalize patterns with an emphasis on communication of mathematical ideas and reflection of process to deepen understanding.

Honors Algebra 2 (0171) **1 credit** **10-11th grade**

Prerequisite: A B or higher in Honors Geometry or instructor approval

Students in Honors Algebra 2 will investigate the same functions and topics as are studied in the Algebra 2 course; however, students will study topics in more depth and breadth.

Pre-Calculus (0153) **1 credit** **11-12th grade**

Prerequisite: Algebra II

Pre-Calculus is the preparation for Calculus. The study of the topics, concepts, and procedures of Pre-Calculus deepens students' understanding of algebra and extends their ability to apply algebra concepts and procedures at higher conceptual levels, as a tool, and in the study of other subjects.

Honors Pre-Calculus (0172)) **1 credit** **11-12th grade**

Prerequisite: A B or higher in Honors Algebra II or instructor approval.

Honors Pre-Calculus prepares the student to take AP Calculus. This honors class continues in increased complexity of the topics, concepts, and procedures of pre-calculus, and also moves at a faster pace than Pre-Calculus.

Calculus (0154) **1 credit** **12th grade**

Prerequisite: Pre-Calculus

This course introduces the student to Calculus, stressing an intuitive approach as well as problem solving techniques. A small number of theoretical proofs are demonstrated only to familiarize the student with notations that will be used later in college. Major topics include limits, derivatives and integrals of algebraic and trigonometric functions, and applications. Emphasis is placed on being able to solve problems with and without a graphing calculator.

AP Calculus AB (0173)**1 credit****12th grade**

Prerequisite: Honors Pre-Calculus/Trigonometry or Regular Pre-Calculus/Trigonometry with teacher recommendation

Calculus AB is the equivalent of a college-level course that includes; derivatives of algebraic functions and applications of differential calculus, integration and applications of the definite integral, methods of integration, and slope fields. Graphing calculators are used throughout this course. This course culminates in students taking the AP exam.

Statistics (0155)**1 credit****10-12th grade**

Prerequisite: Algebra 2 or Geometry with teacher recommendation.

This course is designed to study mathematics applied to Humanities and Social Sciences. Technological applications of the graphing calculator (TI), computer (Excel), and Internet (as time allows) are emphasized. Project-based assignments are used in assessment as well as tests and quizzes. Topics include data gathering, using different sampling methods, calculating measures of center, variation and spread by hand and on the TI Calculator, the basics of experiment design, and displaying data through graphs. Probability and game theory, and spreadsheets may be included.

AP Statistics (0175)**1 credit****11-12th grade**

AP Statistics is a university level course that develops the students' ability to think critically, to analyze data, and to produce reliable statistical reports. The knowledge and experience they gain in this course will be important to them regardless of the career they choose. Students must be approved for this course based on their past academic performance and their desire to challenge themselves.

Physical Education

A student has to have two years of Physical Education (PE) for graduation

**Physical
Education**

Physical Education (0200)

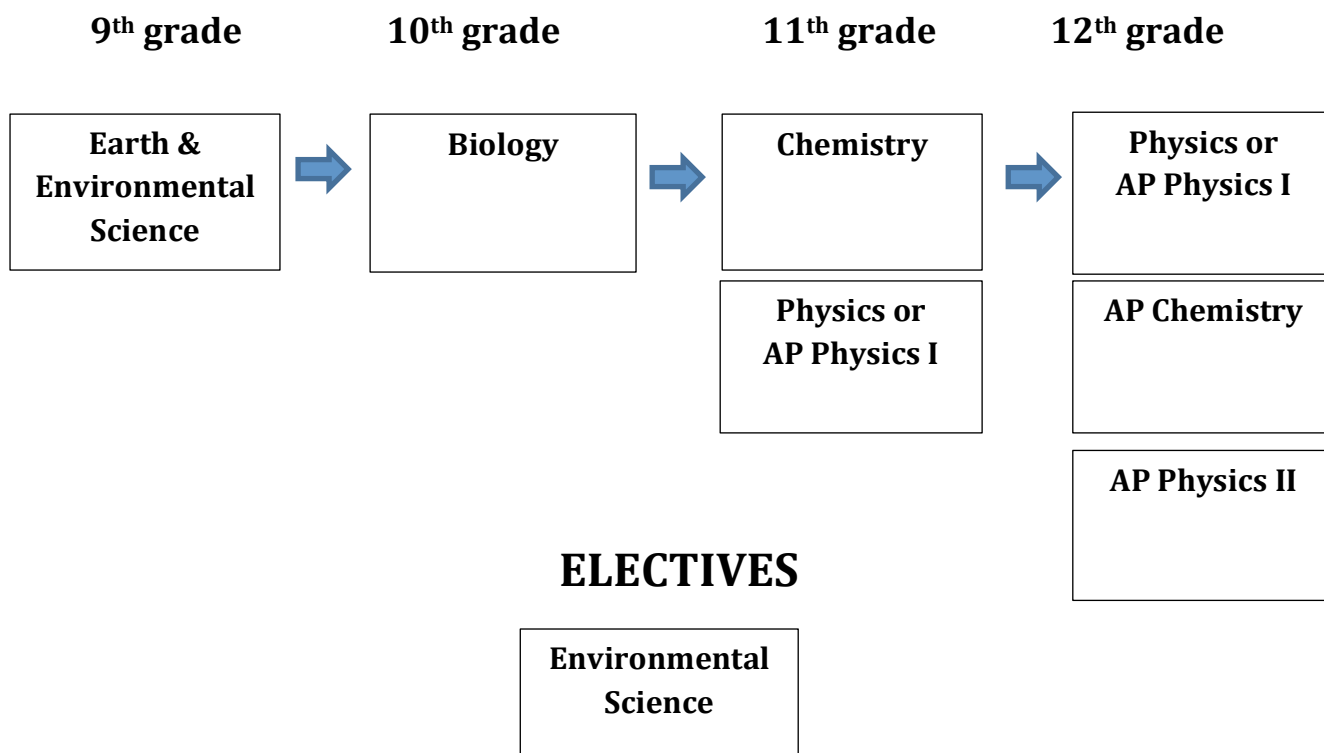
.5 credit

9 - 10th grade

In PE, students will be working on various units to promote gross and fine motor skills including; flag football, basketball, soccer, track and field, volleyball, ping pong and badminton. Students will be assessed on uniform dress, active participation, and skills.

Science

A student has to have a minimum of 3 years of Science.



Earth & Environmental Science (0249) 1 credit

9th grade

Prerequisites: None

The aim of this course is to ensure that students develop a fundamental understanding of past and present relationships among air, water, rocks, minerals and biota. The emphasis is on the interactions between humans and the environment.

Biology (0250)

1 credit

10th grade

Prerequisites: Earth & Environmental Science

Biology is the study of living things. This year we're going to be exploring a variety of topics related to biology, including: the nature of science, relationships between living and non-living things, biodiversity, principles of cell biology, human biology, and principles of genetics and evolution. We will be taking a hands-on approach to master these topics and will incorporate lab activities, group projects, case studies, as well as viewing films, reading, writing, utilization of technology, and classroom discussion.

Chemistry (0251) 1 credit 11th-12th grade

Prerequisites: Biology and Algebra I.

Chemistry is the science that systematically studies the composition, properties, and activity of organic and inorganic substances and various elementary forms of matter. Its procedures are reproducible and its hypotheses are tested using the scientific method. Students will develop knowledge and understanding of: the history of chemistry, the nature and practice of chemistry, applications and uses of chemistry, the implications of chemistry for society and the environment, current issues, research and developments in chemistry, atomic structure, the periodic table and bonding, energy, chemical reactions (including acid/base reactions and chemical equilibrium), carbon chemistry, stoichiometry, behavior of gases, concentration and solutions.

Physics (0252) 1 credit 11-12th grade

Prerequisite: Chemistry

The Physics course provides knowledge that enables the students to understand the physical world around them. This course is based mostly on Newtonian Mechanics; and is an algebra-based course that intends to use the students' basic skills to accurately come up with numerical solutions and critical thinking around real-life situations. Labs are an important component of this course, since they require the students to apply their knowledge and skills of analysis and synthesis. Once the students have taken Regular Physics, their understanding of how things function in the real world is vast.

Environmental Science (0255) .5 credit 9-12th grade

Prerequisites: None

Environmental Science is a one-semester course designed to introduce students to the integrated sciences that explore and explain our world, and to prepare them for any environment-related courses they might take at the university level. A significant part of the scoring for this course will depend on the student's ability to conduct independent research on environmental topics, to analyze published information critically, and to present their findings.

AP Chemistry (0253) 1 credit 12th grade

Prerequisite: Biology, Regular Chemistry and Algebra II with a B or higher and teacher recommendation.

AP Chemistry is designed to be the equivalent of a first year college general chemistry course and follows the College Board's AP Chemistry Topic Outline. As such, the course is suitable only for high school students who exhibit high levels of commitment, motivation and academic maturity. This course presents a rigorous treatment of the following concepts: the nature of matter, gas laws, thermodynamics, stoichiometry, bonding, chemical kinetics, chemical equilibrium, thermodynamics and

more. This course covers the mathematical and theoretical aspects of inorganic and organic chemistry at the college freshman level.

AP Physics I (0254)

1 credit

11th – 12th grade

Prerequisites: B or higher in Biology or Chemistry, and teacher recommendation

The AP Physics course has the purpose of delving into major physical processes based on Newton's Laws, the principle of energy conservation and electromagnetism. AP Physics is a course that requires self-commitment and a willingness to delve more in the fascinating world of Physics. This course will require you to think critically and to come up with well-elaborated solutions of physical events presented in class and by doing labs.

AP Physics II (0258)

1 credit

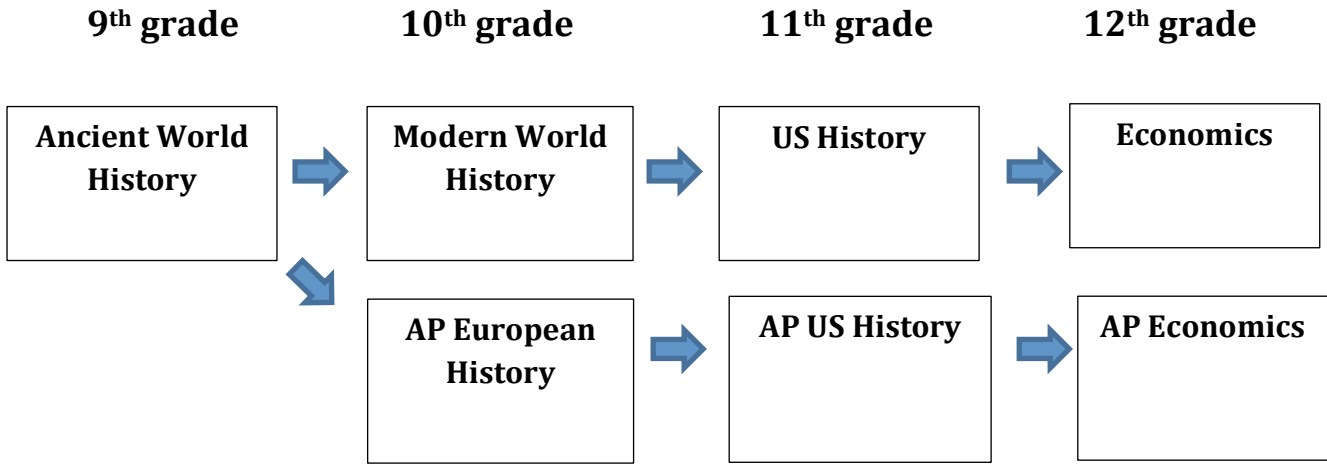
12th grade

Prerequisites: B or higher in Physics or AP Physics I and teacher recommendation.

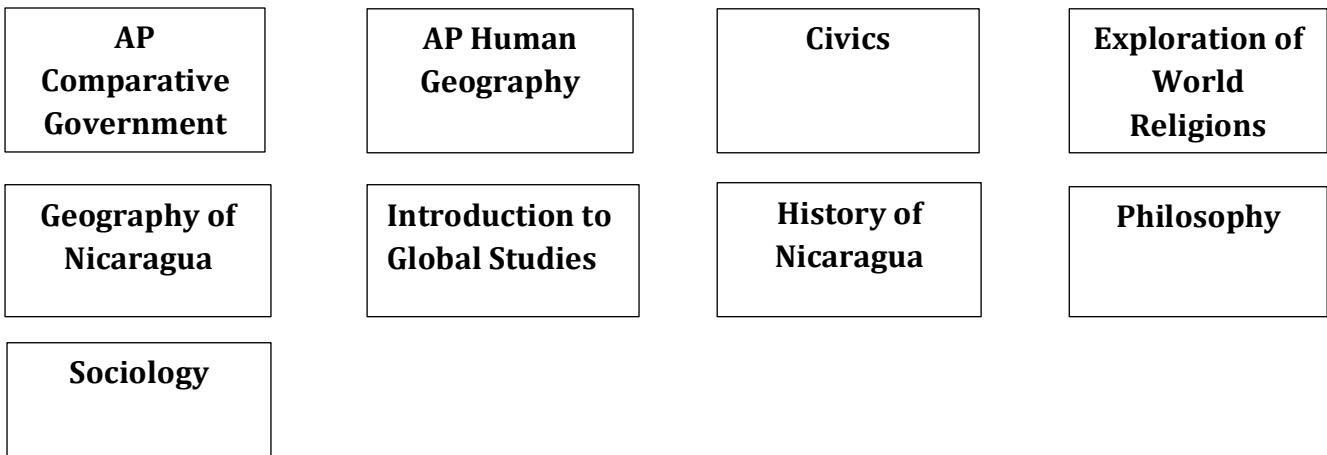
AP Physics 2 is a university level "non-calculus-based" course that will covers many topics of electricity, magnetism, thermodynamics, fluids, optics, quantum mechanics, and nuclear physics. About one third of the course will concentrate on theories, laws and applications of electromagnetism. In order to improve each student's abilities to think critically, and to learn interactively, approximately one fourth of our total class time will be spent on laboratory activities. Students must be approved for this course based on their past academic performance and their desire to challenge themselves.

Social Studies

A student has to have a minimum of 4 years of Social Studies.



Electives



Ancient World History (0300)

1 credit

9th grade

Prerequisite: None

We will study ancient times and civilizations by examining culture, innovations, politics, ethics, religion and geography. We will apply this knowledge to gain a better understanding of how humans have changed over time.

Modern World History (0301) 1 credit 10th grade

Prerequisite: Ancient World History

This class covers the history of the world from the European Renaissance until the present. From 1300 in Europe through China, Japan, India, Africa, the Americas and the Middle East, students cover a broad range of topics, including the age of imperialism and culminating in the World Wars and Cold War. Individual papers and group presentations along with regularly assigned reading are required.

AP European History (0304) 1 credit 10-12th grade

Prerequisite: B or higher in Ancient World History and teacher recommendation.

This college-level class covers the history of Europe from 1300 to the present. The text is called "A History of the Modern World" indicating that the story is not just European, but reflects the impact of its growth and development upon the world. The amount of material and difficulty of essays distinguish it from the regular courses. Students take a three hour exam in May that may result in college credit. **(Rotating schedule with AP World History)**

U.S. History (0302) 1 credit 11th grade

Prerequisite: Modern World History

This course is a challenging review of the history of the United States, beginning with the Civil War. Students need to use solid reading and writing skills, along with a willingness to devote considerable time to homework and study, which are necessary to succeed. Students are responsible for keeping up with reading assignments and being aware of and ready for, quizzes and tests.

AP U.S. History (0305) 1 credit 11-12th grade

Prerequisite: B or higher in World History and English and teacher recommendation.

This college-level course is offered to all high school juniors/ seniors who meet high levels of previous class achievement. AP U.S. History is a challenging review of American History in preparation for the AP Exam.

Economics (0303) 1 credit 12th grade

Prerequisite: US History

Economics is the study of how people attempt to satisfy their unlimited wants and needs through the use of limited resources. Upon completion of the class, students will have an understanding of basic economic concepts, microeconomic concepts and theories, macroeconomic policies, and international trade. In addition, students will learn how to analyze economic data, and make economic projections. Students will also learn how to use economic reasoning when making non-economic choices. Most importantly, they will come to understand that their lives are affected by decisions made by others, and vice versa.

AP Economics (0306) 1 credit 12th grade

Prerequisite: B or higher in US (AP) US History and teacher recommendation.

AP Economics provides students with an in-depth study of fundamental economic concepts that will enable them to understand how the economy as a whole functions. This course includes a study of economic performance and growth, fiscal policy, monetary policy, and international trade.

ELECTIVES

AP Comparative Government (APCG) (0308) 1 credit 11-12th grade

Prerequisite: Teacher recommendation, test scores, and a B or higher in previous history class.

APCG is offered to all high school juniors & seniors, who have successfully completed both a standard Civics and preferably US History class. APCG is a course that covers with in-depth analysis the “AP 6” core countries UK, Russia, China, Iran, Mexico, and Nigeria. To this backdrop is added an emphasis on world societal issues, particularly the change-developments over time, as well as the “thematic focus” on Sovereignty, Authority, and Power; Political Institutions; Citizens, Society, and the State; Political and Economic Change; Public Policy. APCG is a challenging college-level introductory course in preparation for the AP exam.

AP Human Geography (0307) 1 credit 10-12th grade

Prerequisite: Teacher recommendation and B or higher in previous history class.

In this course we will study a systematic approach of human geography to understand the use of spatial concepts and landscape analysis to examine human organization of space and the spatial relationships at different scales ranging from the local to the global. We will develop the ability to interpret maps, data sets, and geographic models using atlases, graphs, and charts.

Civics (0315) .5 credit 11-12th grade

Prerequisite: None (Class instruction in Spanish)

This course covers mankind from his origins to the present day. Special emphasis is placed in change over time, periodization, and comparing and contrasting world cultures and events. Document analysis, analytical writing, and vocabulary are also emphasized.

Geography of Nicaragua (0311) .5 credit 9-12th grade

Prerequisite: None (Class instruction in Spanish)

For many, the study of geography is quite simply the description of a specific region’s cities, landscapes, bodies of water, location, and thus forward. All of the previously mentioned concepts are indeed components of a field commonly referred to as physical geography. Human geography, conversely, is the study of how human beings have developed or interacted within a specific region, in terms of demographics,

population, economic production and development. This class aims to introduce you to the general concepts and facts of the geography of Nicaragua—both physical and human geography.

History of Nicaragua (0312) .5 credit 9-12th grade

Prerequisite: None (Class instruction in Spanish)

The Nicaragua History course aims to provide students an updated summary of the different periods of development Nicaraguan society in a balanced and objective way.

Exploration of Global Religions (0310) .5 credit 10-12th grade

Preference given to seniority

Global Religions seeks to study the main religious traditions across the world. Each religion has its own history, narratives, creeds, rituals, symbols, and pivotal characters that create a unique belief system. We will explore how these belief systems are a vital aspect of cultural identity for many across the globe.

Intro to Global Studies (0309) .5 credit 9-12th grade

Prerequisite: None

Required for the Global Studies Certificate, this class introduces students to globalization, the interconnections among people and places as a result of this phenomenon and various challenges within each thematic area. Topics include: processes of globalization, indicators of economic and social development, sustainable development issues, global and geo-politics, cultural integration/coherence and diversity.

Philosophy (0314) .5 credit 10-12th grade

Preference given to seniority

This class examines what has largely been considered the most fundamental questions of human existence. Relying on our rational and logical skills, we will study what many philosophers believe to be the answers to these deeply puzzling issues.

Sociology (0313) .5 credit 9-12th grade

Prerequisite: None

Sociology is the scientific study of human interaction and human group behavior in modern societies. This course covers the following concepts which are basic to sociology: (1) culture and social structure (2) the individual in society, (3) social inequality, (4) social institutions, and (5) changing social world, as related to sociology.

Technology

Not a requirement for graduation, but great electives

**Digital
Yearbook**

**Introduction
to
Programming**

**Introduction
to Cloud
Media**

**Graphic
Design**

Introduction Cloud Media (0400) .25 credit 9-12th grade

Prerequisite: None

Do you know what an app is? Chances are you use them on a daily basis, through your phone, iPad, iPod Touch, Kindle, or other electronic devices. They are designed to make your life easier as they help you find things, help with homework, and many other uses. This class was created to help you utilize and use this new technology in everyday life. New apps will be introduced that are relevant to your life.

Introduction to Technology (0406) .25 credit 9-12th grade

Prerequisite: None

Students will learn the basis of computer components, software and accessories used on a daily basis. We explore everything from device troubleshooting and network creation to sound recording and video editing. This is all done through hands on experience and detailed research on the topics studied.

Graphic Design (0403) .25 credit 9-12th grade

Prerequisite: None

Graphic Design focuses on composition, color and design principles, and applies them to a digital medium. Using Adobe Creative suite, students master digital imaging, image editing, animation and more, enhancing their creativity.

Yearbook (0402) 1 credit 9-12th grade

Prerequisite: None

The Yearbook Class serves as the staff for the annual yearbook. Students will learn and practice advanced journalism writing and production skills as they produce the yearbook. Advertising sales, design and book promotion will also be emphasized. InDesign, Photoshop, ACD.

Counseling

**Mentoring/
Community
Outreach**

**Academic
Workshop**

**College
Advisory**

ANS Mentoring/ Community Outreach (0452) .25 credits 9-12th grade

This class is for high school students interested in becoming a mentor with elementary students to teach them positive social, personal, and academic skills. This program will focus on learning various hands-on activities, and then teaching them to their mentees. The class will also be working on several ANS school-based projects with the elementary students to promote stewardship and community service.

Academic Workshop (0450) .25 credits 9-12th grade

Some students will have the opportunity to be in an academic support workshop enrichment that will benefit their efforts in all their classes. Students enrolled in this course will be chosen by the counselors along with the parents' input.

College Advisory (0451) .25 credits 12th grade

College Advisory is a semester course offered 1st semester to seniors. The first semester of this course will focus on the college application and scholarship application process. Students will also have the opportunity to meet with visiting college representatives. Those students planning to apply under the Early Decision or Early Application deadlines are strongly encouraged to enroll in this course. Students will work with the counselor to begin to formulate their college list, define their areas of study, and map out their testing and applying calendar. Some college representative visits will also take place during this course.