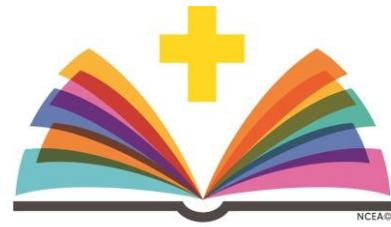




**LINCOLN
INTERNATIONAL
ACADEMY**

A CATHOLIC COLLEGE PREPARATORY SCHOOL



Catholic Schools
Learn. Serve. Lead. Succeed.

High School



To graduate from High School, students must fulfill the requirements outlined by the Nicaraguan “*Bachillerato*” and the United States High School program. They must obtain a minimum 29.5 credit units and earn at least 130 Community Service Learning hours.

Credit units must include the following courses:

English Literature and Language 6.0 units

Spanish/Spanish Literature 4.0 units

Mathematics 4.0 units

- Geometry 1.0 unit
- Algebra 2 1.0 unit
- Advanced Algebra/Trigonometry 1.0 unit
- Pre-Calculus 1.0 unit

Social Studies 6 units

- World History 2.0 units
- United States History 1.0 unit
- Morality 1.0 unit
- United States Government 0.5 unit
- Economics 0.5 unit
- Sociology 0.5 unit
- Philosophy 0.5 unit

Science 4.0 units

- Physical Science 1.0 unit
- Biology 1.0 unit
- Chemistry 1.0 unit
- Physics 1.0 unit

Theology 1.5 units

Technology/Vocational Orientation 1.5 units

Artistic/Cultural Expression 1.0 units

Physical Education 1.5 units

TOTAL 29.5 units

Lincoln International Academy’s curricular program is designed to give each and every student a solid academic foundation.

In addition to the academic approach, social and emotional skills are developed in an atmosphere where Catholic Faith and values are present in every aspect of the student’s education. The High School makes an emphasis on problem solving, 21st century skills, and career orientation.

The High School Course description has been carefully designed to provide students with the preparation for College and beyond.

Lincoln International Academy

HIGH SCHOOL CURRICULUM GUIDE

9th Grade

ENGLISH WORLD LITERATURE I

Students will be exposed to literature from different time periods and cultures. They will explore how literature is affected by a variety of sources, such as history and the author's personal experiences. This course will not only focus on analyzing and interpreting literature, but also in enjoying literature. Furthermore grammar and basic writing skills will be strongly emphasized. This course utilizes the Holt McDougal, Literature: Grade 9 textbook. In addition, students will read: Fahrenheit 451 by Ray Bradbury, Lord of the Flies by William Golding, To Kill a Mockingbird by Harper Lee, Catcher in the Rye by J.D. Salinger, and Bernardo and the Virgin by Silvio Sirias. Honors groups will also read: The Immortal Life of Henrietta Lacks by Rebecca Skloot, and A Raisin in the Sun by Lorraine Hansberry.

BIOLOGY

The Biology course for nine grade is an introductory course designed to expand the biological knowledge acquired in natural science; it touches bases with Biochemistry, cellular components, and the detailed study of each of the five kingdoms of life. The content of this course is summarize as follows: A brief history of the development of Biology as a science and review of the Scientific method Introduction to Biochemistry; Cell structure and functions; Metabolism; Principles of evolution; Principles of Ecology; Viruses and prokaryotes; Protists and fungi; Plants; Kingdom Animalia.

HONORS BIOLOGY

The Honors Biology curriculum differs from the regular Biology curriculum in meaningful ways. The Honors course places a higher priority on developing critical thinking skills by examining real world problems. The Honors curriculum examines topics with more depth and includes more advanced resource material in addition to the adopted text. Laboratory investigations play a more prominent role in the Honor course. Labs are more sophisticated than in the regular curriculum and students are expected to design and carry out experiments using appropriate methods and resources. Honors Biology is recommended for high-achieving students and for students who have a particular interest in biology and the natural sciences, including students who are traditionally underrepresented in AP courses. Students will be ultimately responsible for their learning; therefore, they should be organized, prepared, and motivated to learn every day. The main goal for students is to obtain a good understanding of the concepts in biology and to relate this information to their lives and society as a whole, as well as building a foundation for success in the college level AP courses to follow. This course has pre-requisites.

WORLD HISTORY I

Students in this course are expected to: understand of the beginning of Civilization, from the appearance of the earliest hominids in Africa to the birth of powerful empires. Discuss and compare the Classical Greece with Ancient Rome, India and African civilizations. Explore the Muslim World and how the Byzantine, Russian and Turks interact. Understand how the development of kingdoms and empires in East Asia help spread religion, culture, trade and technological innovations. Discuss European Middle ages and discover what events led to the development of Western Europe. Discuss the European Renaissance and Reformation. Skills in critical thinking, logical reasoning, and problem solving should be developed in great depth in this course. Inductive and deductive reasoning should be used in formal representation of arguments.

AP WORLD HISTORY

This is a college-level course that explores the expansive history of the human world. Students will learn facts, but also will acquire the critical thinking skills necessary to analyze historical evidence. Five themes will be used as a frame of reference in the chronological study of our world's history: Interaction between humans and the environment; development and interaction of cultures; state-building, expansion and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. Another critical skill that students will acquire is the ability to examine change over time, including the causation of events as well as the major effects of

historical developments, the interconnectedness of events over time, and the spatial interactions that occur over time that have geographic, political, cultural, and social significance. Students will also learn to compare developments in different regions and in different time periods, as well as contextualize important changes and continuities throughout world history. This course has pre-requisites.

GEOMETRY

This course emphasizes the importance of logical thinking in mathematics through the use of geometric definitions, theorems, and proofs. Geometric terms are also combined with algebra skills in the study of lines, angles, triangles, other polygons, circles, area and surface area.

HONORS GEOMETRY

The course covers drawing and analyzing 2- and 3- dimensional figures, finding the area and volume of 2- and 3-dimensional figures, measuring angles, and solving problems involving angle measures, working with parallel lines and planes, circles, coordinate geometry, transformations, slope of lines, midpoints, and distance of lines. Algebra skills are applied throughout. This course has pre-requisites.

SPANISH

Students will develop skills and abilities in Spanish analysis and literary criticism, as well as oral and written Spanish expression through class presentations. They will prepare summaries, anecdotes, stories, poems, dialogues and oral presentations in Spanish, besides developing a school newspaper as a project. Students will also acquire skills in the recognition and application of the rules in a timely, accentual and literal spelling. The syntax component of the essential elements of simple and compound sentence will be studied, in addition to conducting analysis of the syntactic relation of its elements. Spanish vocabulary component will be enriched through the study of the structure, classification and formation of words and synonyms, antonyms, onomatopoeia, voices of Latin origin, foreign words, abbreviations and acronyms.

THEOLOGY

This is an introductory course that provides an overview of the vocabulary and the basic Catholic beliefs. Based on and organized around the Creed and the Catechism of the Catholic Church covers the issues of faith, God the Father, Jesus, the Holy Spirit, the man in relation to God, the Bible, the Church, methods of prayer, sacraments, models of faith and morality issues. The textbook used is an excellent tool for bringing together students from a variety of religious education and family backgrounds, and a good preparation for the Sacrament of Confirmation for those who have not received it yet.

TECHNOLOGY

Throughout the course students will look at the following topics: text format, pictures, hyperlinks, auto shapes, hot spots, photo gallery, inserting objects, forms, frames, page transitions, slide shows, graphics, and tables. Students will also work with Microsoft office, which includes, Word, PowerPoint, Publisher and Excel. Students will also be able to design and develop web pages with all the digital tools that meet accessibility requirements. Model legal and ethical behaviors when using information and technology by properly selecting, acquiring, and citing resources. Students will create media-rich presentations for other students on the appropriate and ethical use of digital tools and resources. They will be able to analyze the capabilities and limitations of current and emerging technology resources and assess their potential to address personal, social, lifelong learning, and career needs.

PHYSICAL EDUCATION

Students learn about the theory and practice of different disciplines like athletics (endurance, speed, relief, long jump); soccer (obstacle movement, pass, slalom, shots); volleyball (serve and receiving, volley); baseball (batting, fielding); and basketball (driving, pass, break, layout, triple jump, shots). The disciplines change each quarter. The program follows the same pattern through High School, increasing the difficulty level each year.

9th-10th GRADE ELECTIVES

Students from 10th grade have the opportunity to choose an elective course for the complete school year, which is taught once a week. Students participate in an Elective Fair the first week of school where they are exposed to all details about each elective course and get to choose one. The courses offered are: Dance, Music, Global Issues, Art, Leadership, Tae Kwon Do, Media, Honors Introduction to Business/Economics.

10th Grade

ENGLISH WORLD LITERATURE II

Students will be exposed to a wide-range of world literature, ranging from the classics to contemporary works. Students will identify universal themes. They will also interpret, analyze and evaluate each work to demonstrate their understanding of literature. This course also focuses on grammar and writing skills. This course utilizes the Holt McDougal, Literature: Grade 10 textbook. In addition, students will read: *The Power and the Glory* by Graham Green, *A Prayer for Owen Meany* by John Irving, *The Hiding Place* by Corrie ten Boom, and *The Merchant of Venice* by William Shakespeare, and *Tartuffe* by Moliere. Honors groups will also read: *The Color Purple* by Alice Walker, *The Metamorphosis* by Franz Kafka and *Death of a Salesman* by Arthur Miller.

CHEMISTRY

This introductory course provides a general overview of the study of molecules and their interactions. It will cover the essential topics to give students a firm foundation for classes they may take later on and for the chemistry they experience in everyday life. During the first semester, students will learn how chemistry is related to them in common situations. They will learn to describe matter and explain how it is classified. They will learn the way energy in matter changes. By the end of the first quarter they will study the structure of the atom and electron configuration, they will understand how the electron configuration is organized. In the second quarter they will learn names and characteristics of ionic and covalent compounds. They will perform molar conversion and use Avogadro's number. They will learn about formulas and percentage composition. Students will describe chemical reactions and write balanced chemical equations. They will classify chemical equations and write net ionic equations. They will perform stoichiometric calculations using limiting reactants and percentage yield. In the third and fourth quarters they will be examining concepts such as enthalpy, entropy, and free energy. They will learn characteristics of gases, the gas laws, and molecular composition of gases, besides practicing how to work with solutions and concentration. Students will learn about reversible reactions and equilibrium, acids and bases, pH, neutralization and titration, and equilibria of weak acids and bases. Before entering the course, students will study reaction rates, oxidation, reduction, and electrochemistry.

WORLD HISTORY II

A continuation of World History I, in which students will analyze major turning points that shaped the modern world, from the late eighteenth century through the present, including the cause and course of the two World Wars. They will trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. Students will investigate how democratic ideals are often achieved at a high price, remain vulnerable, and are not practiced everywhere in the world. They will also develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts while considering multiple accounts of events in order to understand international relations from a variety of perspectives.

AP WORLD HISTORY

This is a college-level course that explores the expansive history of the human world. Students will learn facts, but also will acquire the critical thinking skills necessary to analyze historical evidence. Five themes will be used as a frame of reference in the chronological study of our world's history: Interaction between humans and the environment; development and interaction of cultures; state-building, expansion and conflict; creation, expansion, and interaction

of economic systems; and development and transformation of social structures. Another critical skill that students will acquire is the ability to examine change over time, including the causation of events as well as the major effects of historical developments, the interconnectedness of events over time, and the spatial interactions that occur over time that have geographic, political, cultural, and social significance. Students will also learn to compare developments in different regions and in different time periods, as well as contextualize important changes and continuities throughout world history. This course has pre-requisites.

ALGEBRA II

This course builds on concepts that were explored in Algebra 1 and takes them to higher dimensions. It starts with a reviews of properties and applications of basic algebraic concepts. It introduces the concept of relations and functions and finding their domain and range. The course emphasizes on solving equations: linear, quadratic, polynomial, radical, exponential, and logarithmic equations. It also gives a superficial view of polynomial functions.

HONORS ALGEBRA II

This course is a continuation of algebra and geometry topics with an emphasis on the real and complex number systems, using coordinate geometry with graphing, solving systems of equations, and introducing logarithms, trigonometry, or other areas of mathematics. Subject matter in this course will involve problems with more depth in preparation for higher level mathematics such as Analysis and Calculus. This course has pre-requisites.

SPANISH

Students will develop abilities and skills in the critical analysis of Spanish literary texts from the romantics, realist, naturalist, modernist, avant-garde, generation of 27 and American literature. They will develop oral expression through discussion in class. Compositions, journalistic texts, argumentative, expository, essays, articles of everyday life and personal documents will be drawn through the course. Students will also acquire skills in the recognition and application of timely, accentual and literal spelling. The syntax component of the essential elements of simple and compound sentence subordinates will be studied and analysis of these syntactic relation will be completed. Content vocabulary will be enriched through the study of the structure, classification and formation of words, synonyms, antonyms, Latin roots, euphemisms, foreign words, and sayings, among others.

AP SPANISH LANGUAGE

The purpose of this course is for students to develop the skills of the Spanish language with the ability to integrate language in the application of synthesis in his writings and audio materials. This integration of the Spanish language is also expected in the process of formal, written, interpersonal, and intensive practice of writing; oral presentations; understanding of listening skills; the quality, authenticity and appropriate level of audio and video. The classes are entirely in Spanish and include common writings where rigorous grammatical structure are integrated. Different resources are used to facilitate the learning process. This course has pre-requisites.

THEOLOGY

During the first semester, students will continue with the preparation of the Confirmation Sacrament. In the second semester, students will be introduced to the Theology of the Body, a course based on John Paul II's teachings and which will help students understand the meaning of their bodies, the significance of their sexuality, the purpose of their lives, and how they were uniquely created for greatness.

TECHNOLOGY

This course prepares students to understand technology operations and concepts, besides applying strategies for identifying and solving routine hardware and software problems. They will Identify and locate help-resources and understand the effects of technology development and use on social, ethical, and human issues. Students should demonstrate knowledge of current changes in information technologies and the effect those changes have on the workplace and society, exhibiting legal and ethical behaviors when using information and technology, and discussing consequences of misuse. They will gather, analyze, interpret, synthesize, apply, and communicate information and

designs using technology tools. Students will use content-specific tools, software, and simulations to support learning and research. Students are expected to design, develop, publish and present other subject's projects using technology resources that demonstrate and communicate curriculum concepts to audiences inside and outside the classroom. They will collaborate with peers, experts, and others using telecommunications and collaborative tools to investigate curriculum-related problems, issues and information, and to develop solutions or products for audiences inside and outside the classroom. They will also select and use appropriate tools and technology resources to accomplish a variety of tasks and solve problems. Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real-world problems.

PHYSICAL EDUCATION

Students learn about the theory and practice of different disciplines like athletics (endurance, speed, relief, long jump); soccer (obstacle movement, pass, slalom, shots); volleyball (serve and receiving, volley); baseball (batting, fielding); and basketball (driving, pass, break, layout, triple jump, shots). The disciplines change each quarter. The program follows the same pattern through High School, increasing the difficulty level each year.

9th-10th GRADE ELECTIVES

Students from 10th grade have the opportunity to choose an elective course for the complete school year, which is taught once a week. Students participate in an Elective Fair the first week of school where they are exposed to all details about each elective course and get to choose one. The courses offered are: Dance, Music, Global Issues, Art, Leadership, Tae Kwon Do, Media, Honors Introduction to Business/Economics.

11th Grade

ENGLISH-AMERICAN LITERATURE

Students will read, discuss and analyze literary works by American authors, ranging from Native American literature and Puritan writings to contemporary works. They will evaluate how American history and values and author backgrounds have influenced this literature. This course also focuses on improved writing and research skills. This course utilizes the Holt McDougal, Literature: American Literature textbook. In addition, students will read: *How the Garcia Girls Lost Their Accents* by Julia Alvarez, *The Great Gatsby* by F. Scott Fitzgerald, *Twelve Years a Slave* by Solomon Northup, *Of Mice and Men* by George Steinbeck, and *I am Malala* by Toni Morrison.

AP ENGLISH LANGUAGE

This course is designed to challenge the language arts student who is already skilled in basic English composition and is proficient in their use of English grammar and mechanics. This is a college level course which prepares the student for the Advanced Placement Test. Students must have an understanding of the demanding, rigorous, and challenging work that this course entails. They are expected to complete previous summer readings as they will be tested on these. The writing content will focus on the in depth study of the patterns of development and will require both brief and lengthy essays using each of the patterns of development starting with Description and Narration and an in depth study on Process Analysis, Cause and Effect, Argumentation Persuasion, and writings related to the books and articles required for the class. In addition, students are required to write a research paper following the guidelines described in the MLA (Modern Language Association) handbook. Students are required to take the AP course exam in May. This course has pre-requisites.

PHYSICS

This course offers a conceptual foundation and a mathematically-based presentation of Physics. The course covers the core physics content and the comprehension of the students will be further extended with the application of concepts learned in experimental practices in the laboratory. The goals of this course are to give students an understanding of the fundamental principles of physics and their application to everyday life and technology; to develop an appreciation of physics as a human endeavor, thereby enriching the students' experience of life; to provide

a reasonably broad perspective of physics, thus developing an understanding of the physical environment and of how human beings interact with it; to provide a general education in physics for all students, whether or not they proceed to further studies in physics; to develop the ability to observe, to think logically, and to communicate effectively; to develop an understanding of the scientific method; and to develop an appreciation of physics as a creative activity, using informed intuition and imagination to create an understanding of the beauty, simplicity and symmetry in nature.

HONORS PHYSICS

This is a more challenging course than the regular version. It offers a conceptual foundation and a mathematically-based presentation of physics. The course covers the core physics content and the comprehension of the students will be further extended with the application of concepts learned in experimental practices in the laboratory. Just like in the regular physics version, the goals of this course are to give students an understanding of the fundamental principles of physics and their application to everyday life and technology; to develop an appreciation of physics as a human endeavor, thereby enriching the students' experience of life; to provide a reasonably broad perspective of physics, thus developing an understanding of the physical environment and of how human beings interact with it; to provide a general education in physics for all students, whether or not they proceed to further studies in physics; to develop the ability to observe, to think logically, and to communicate effectively; to develop an understanding of the scientific method; and to develop an appreciation of physics as a creative activity, using informed intuition and imagination to create an understanding of the beauty, simplicity and symmetry in nature. The course opens with a review of mathematical skills needed in high school physics. Then it quickly proceeds into classical physics, we will cover topics such as mechanics, waves, optics and electromagnetism. This course has pre-requisites.

U.S. GOVERNMENT

This is a one-semester course in which students will understand the origins and role of US government and will analyze the meaning of the U.S. Constitution; the structure of Federalism; and the role and power of Congress. They will also analyze how a bill becomes a law and will be able to compare different governments through an international relations analysis. Students will understand the role of the Executive branch and the principles of U.S. foreign policy, in addition to analyzing how the Supreme Court works. The function of political parties and the benefits of U.S. two party systems will be discussed. Skills in critical thinking, logical reasoning, and problem solving should be developed in great depth in this course. Inductive and deductive reasoning should be used in formal representation of arguments.

ECONOMICS

This is a one-semester course in which students will analyze and comprehend the choices and decisions people make in the use of world's resources. Understanding the concepts of economics will help students to better understand decisions made by others or by their government. In this course, students will discuss the different types of economic systems and how they work on a large and small scale. They will also understand how value is created for the goods and services we use each day.

ADVANCED ALGEBRA

This course is designed to help students acquire a solid foundation in algebra and trigonometry, preparing them for pre-calculus. The course is a continuation of concepts studied in Algebra II: solving linear, quadratic, polynomial, radical, and rational, absolute-value equations, linear inequalities, and systems of linear equations and inequalities. It goes on to study the basics of functions and it ends with the study of trigonometry. This course emphasizes on applications to real-life situations to foster in students the use of higher order thinking skills. They will also apply basic principles of probability. This course has pre-requisites.

PRE-CALCULUS

Pre-calculus is a course aimed at preparing students for the future study of calculus. Students begin with a review of the basic concepts in algebra, followed by a comprehensive study of functions. Throughout the course, students will analyze different types of functions, their properties, and their respective graphs. They will understand linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions. Students will find the value of

zero by solving equations and inequalities. They will also use matrices to solve systems of linear equations and study basic principles of probability. This course has pre-requisites.

HONORS PRE-CALCULUS

Students develop, describe, investigate, and apply general function properties and use them to develop linear, quadratic, trigonometric, and circular functions. Throughout the course, students are engaged in applying their study of mathematics to the modeling of mathematical and real-world situations. The processes of representation, connection, and communication are important factors in molding students' reasoning and problem-solving strategies. Students extend their concept of function to operations with functions, including composition, and transformations, and an in-depth study of the qualitative behavior of functions from both a numerical and a graphical standpoint. Trigonometric functions are extended from the study of right triangles to encompass side and angle measurements in all triangles through the use of the law of sines and the law of cosines. Students will make the transition from considering trigonometric functions based on degree measure to working almost exclusively in radian measure. The study of trigonometry is further extended to consider the circular functions associated with the angles centered at the origin of the unit circle. Students see the connection between the right triangle, trigonometric function and unit circle approaches, and determine inverse functions for the primary domains of the circular functions. The modeling skills students develop in their study of functions are then applied in the development and application of the general rectangular forms for the conic sections: the parabola, the ellipse, and the hyperbola. Additionally, students demonstrate their knowledge of limits and continuity of functions. This course has pre-requisites.

SPANISH

In this course, students will develop skills and abilities in the critical analysis of literary texts from the Middle Ages, Renaissance and Baroque periods. They will also develop oral expression abilities through discussion in class. Throughout the course, students will write and edit newspapers, and will practice advertising, narrative, descriptive, argumentative, expository texts, and essay writing in Spanish. They will acquire skills in the recognition and application of timely, accentual and literal spelling. The syntax component of the essential elements of simple, compound, coordinated, juxtaposed, and subordinate sentences will be studied, before conducting an analysis of their syntactic relation. To strengthen vocabulary, students will immerse in the study of structure, classification and formation of words and synonyms, antonyms, Latin words, euphemisms, foreign words, and sayings, while developing aspects of linguistic competence and improving the correct trace of the Spanish alphabet letters.

AP SPANISH LITERATURE

This course covers the major movements in Hispanic literature, from the medieval period through the latest literary trends. This breaks all barriers of national literature to illustrate the links between cultural production from both sides of the Hispanic world. The literary text is taught not as an end in itself but as a cultural and historical process from which we can deepen many aspects of Hispanic studies. The general objective of this course is to teach students the analytical tools needed to extract vital information from the text. The specific objectives are: To learn the major movements, writers and ideas from literature; to learn the theory of modern literature and its application in literary analysis; to learn the terminology used to implement them in discussions about literary criticism; to think critically and logically; and to practice Spanish in oral and written expression. This course has pre-requisites.

THEOLOGY

The purpose of this course is to introduce students to the Church's social teaching. In this course, students are to learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission.

TECHNOLOGY

The focus of this course is to prepare students to obtain the knowledge and skills for creating small computer software programs using a graphic based computer programming language. Students will also be prepared to review and strengthen knowledge gained from previous school years. Throughout the course, students will review the following

topics: Mail Merge, Spelling, Find-Replace, Headers Footers, Page Setup, Printing, Inserting Objects, animation, Multimedia, Slide Design, Slide Layout, Data format, borders, Alignment, math formulas, functions, Sort, filter and charts, Folder and Files, Help, Sharing, Customize the Computer, and Security-Administration. They should also be able to design, create and publish an online art gallery with examples and commentary that demonstrate an understanding of different historical periods, cultures, and countries. They will also learn to select digital tools or resources to use for a real world task and justify the selection based on their efficiency and effectiveness; analyze the capabilities and limitations of current and emerging technology resources to assess their potential to address personal, social, lifelong learning, and career needs; design a website that meets accessibility requirements; model legal and ethical behaviors when using information and technology by properly selecting, acquiring, and citing resources; and create media rich presentations for other students with the appropriate and ethical use of digital tools and resources.

PHYSICAL EDUCATION

Students learn about the theory and practice of different disciplines like athletics (endurance, speed, relief, long jump); soccer (obstacle movement, pass, slalom, shots); volleyball (serve and receiving, volley); baseball (batting, fielding); and basketball (driving, pass, break, layout, triple jump, shots). The disciplines change each quarter. The program follows the same pattern through High School, increasing the difficulty level each year.

11th-12th GRADE ELECTIVES

Students from 11th grade have the opportunity to choose an elective course for the complete school year, which is taught four times a week. Students participate in an Elective Fair the first week of school where they are exposed to all details about each elective course and get to choose one. The courses offered are: Communications, AP Statistics, AP Government, AP Environmental Science, Leadership, and AP Computer Science Principles.

12th Grade

ENGLISH-BRITISH LITERATURE

Students will be exposed to a wide variety of British literature, ranging from the Anglo-Saxon and medieval times to contemporary times. Students will explore British literature in a diverse range of genres. Students will be encouraged to write as a means of self-expression and read for self-discovery. This course focuses on building analytical skills to prepare students for college. It also emphasizes improved research writing skills. This course utilizes the Holt McDougal Literature: British Literature textbook. In addition, students will read: *Gravel* by John Gardner, *Hamlet* by William Shakespeare, *Frankenstein* by Mary Shelley, *Pride and Prejudice* by Jane Austen, and *Foreman* by Lin McEwan.

AP ENGLISH LITERATURE

In this course, students will be exploring the issues of writing, identity and expression through close analytical reading of selected texts of various genres and time periods. They will analyze epic plays, novels, short stories, poetry and nonfiction. Students will interpret the texts through careful observation of textual details, considering form, meaning and the historical, social and cultural values under which they were written. Through close analysis of elements such as the use of figurative language, symbolism, tone and imagery as well as the structure, style and themes of the text, they will get to the bottom of whose voice is present in the text, what they are saying, and why. While books will be divided among quarters and themes, they will be comparing these works throughout the year. Students will also be working on the writing process through multiple written assignments, essays, as well as essay tests. Students will master writing to understand, writing to explain as well as writing to evaluate through a variety of informal to formal assignments; students will also receive teacher instruction and feedback before, during and after writing assignments. This course has pre-requisites.

NUTRITION

Nutrition is the study of nutrients in food, how the body uses nutrients, and the relationship between diet, health, and disease. This course is an introduction to the role of nutrition in human health. In this course you will learn how

the body breaks food down and how it repairs and creates cells and tissue. Topics include biochemistry, human metabolism, utilization of nutrients, nutritive value of foods, factors that affect eating habits, food advertising, nutrition and disease, and establishing a healthy lifestyle.

ENVIRONMENTAL SCIENCE

Environmental Science is a science based course that integrates the foundational concepts of Biology, Chemistry and Physics with the goal of understanding the natural processes at work on Earth. Students will use the concepts that they have learned in the core science subjects to describe these environmental process and predict how they will change in response to variations within the environment.

While Environmental Science focuses on the empirical, the student will also draw on their experiences in the humanities to describe the historical, social, economic and legal factors that influence how we as humans interact with and affect the environment. As such the student will gain the skills necessary to integrated many different fields of knowledge into one coherent idea that will be useful for affecting positive change in the world.

AP BIOLOGY

This course is designed to be equivalent to a two-semester college introductory biology course and to prepare students for the college level Advanced Placement Biology Examination, which is based on the curriculum established by the College Board. The class is conducted at the college level and students are expected to work accordingly. AP Biology differs significantly from a traditional high school biology course due to text content, depth of material covered, lab work, and time and effort required to achieve mastery in subject area. Material will be covered through daily class activities, lectures, discussions, laboratories and independent projects. A student's success will depend on the time and effort that is invested into this course. This course has pre-requisites.

AP PHYSICS

AP Physics is an algebra-based course that focus on the main ideas typically included in college-level physics sequence and provide students with enduring understandings to support future advanced course work in sciences. Through inquiry-based learning, students will develop critical thinking and reasoning skills, as defined by the AP Science Practices. Students will cultivate their understanding of physics and science practices as they explore the following topics: kinematics; Newton's Laws; circular motion and universal law of gravitation; simple harmonic motion; simple pendulum and mass-spring systems; impulse, linear momentum, and conservation of linear momentum; collisions; work, energy, and conservation of energy; rotational motion; torque, rotational kinematics and energy, rotational dynamics; conservation of angular momentum; electrostatics; electric charge; electric force; DC circuits; resistors; mechanical waves; and sound. In this course, 25% of the instructional time will be spent in laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to demonstrate the foundational physics principles while applying all seven science practices defined in the curriculum framework. This course has pre-requisites.

PHILOSOPHY

Philosophy is a broad examination of the basic issues, problems, and arguments in philosophy. Throughout this course, students will explore: 1) epistemological questions concerning the nature of knowledge and truth; 2) metaphysical questions concerning the nature of ultimate reality, the mind-body problem, consciousness, freedom and determinism, personal identity, and the existence of God; and 3) ethical questions concerning morality and the good life.

SOCIOLOGY

This is a one-semester course which will enable students to learn the different sociological approaches to analyze social events. It will also show them the close relationship between sociology and society and to do a sociological research. The course is thematically organized and will allow students to understand how much society has changed.

U.S. HISTORY

In this course, students will be exposed to the development of US civilizations from its origins to the present, its cultural, political, social, economic, religious, and ideological factors. This course is a transition to college level work. Students will use complete and sophisticated college level text, write essays on regular basis, do individual and group presentations, research historical events, interpretations and connections between the past and the present. Skills in critical thinking, logical reasoning, and problem solving should be developed in great depth in this course. Inductive and deductive reasoning should be used in formal representation of arguments.

AP U.S. HISTORY

This is a college-level course which will enable students to interpret document-based questions, learn an important body of factual information, and write critical essays. The themes include life and thought in Colonial America, Revolutionary Ideology, Constitutional Development, Development of Political Parties, Jeffersonian and Jacksonian democracy, nineteenth century reform movements, Manifest Destiny, Civil War, Reconstruction, Immigration, Industrialization, Populism, Imperialism, Progressivism, WWI, The Jazz Age, The Great Depression, The New Deal, The Cold War, The Post-Cold War Era, and the United States in the twenty first century. The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials (their relevance to a given interpretive problem, reliability, and importance) and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. This course has pre-requisites.

AP ECONOMICS

This is an elective course. The AP Economics course is divided into two parts: Microeconomics and Macroeconomics. In Microeconomics the students will be able to demonstrate questioning and analytical skills, interpret a variety of graphical models, and apply economic skills and concept knowledge to higher college level economic courses. The main topics are opportunity cost, comparative advantage, supply and demand, elasticity marginal product and diminishing returns, competition, monopoly, factor markets, efficiency, equity and the role of government. In the second semester, the emphasis will be on Macroeconomics. The main topics are: measurement of economic performance, national income and price determination, aggregate demand, money and banking, fiscal monetary mix, trade-offs between inflation and unemployment, economic growth and balance of payments.

AP STATISTICS

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. *Exploring Data: Describing patterns and departures from patterns*
2. *Sampling and Experimentation: Planning and conducting a study*
3. *Anticipating Patterns: Exploring random phenomena using probability and simulation*
4. *Statistical Inference: Estimating population parameters and testing hypotheses*
5. *Students who successfully complete the course and exam may receive credit,*
6. *advanced placement or both for a one-semester introductory college statistics course.*

PRE-CALCULUS

Pre-Calculus is a course aimed at preparing students for the study of calculus. The heart of the course is the study of functions. Students will graph, analyze and transform the graphs of different types of functions, their properties, and their respective graphs. To find zeros of functions, students will solve equations and inequalities. The functions that are analyzed are linear, quadratic, power, polynomial, rational, exponential, logarithmic, and trigonometric functions.

CALCULUS

This course has been designed as an introduction to the Calculus of a Single Variable College Course for those students that are prospective mathematics majors or students whose primary interest is in engineering. It is pretended that the course will be a step-by-step explanation of the three main topics that will be included, which are: Limits, Derivatives, and Integrals, with abundant worked examples and a wide variety of exercises that will allow students to see the connection between the mathematical concepts and real world situations. Since the concepts presented in this course belong to college level courses, it will be a presentation geared to a beginner's experience and maturity, but without leaving any step unexplained or omitted. These more advanced mathematical concepts will be carefully explained so that they are understandable to the students who have achieved an average mastery of preceding courses.

AP CALCULUS

This courses is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations are also important. The course is intended to be challenging and demanding. Through the use of the unifying themes of limits, derivatives, integrals, approximations, as well as, applications and modeling, the course becomes a cohesive whole rather than a collection of unrelated topics. This course has pre-requisites.

MORALITY

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples.

11th-12th GRADE ELECTIVES

Students from 11th grade have the opportunity to choose an elective course for the complete school year, which is taught four times a week. Students participate in an Elective Fair the first week of school where they are exposed to all details about each elective course and get to choose one. The courses offered are: Communications, AP Statistics, AP Government, AP Environmental Science, Leadership, and AP Computer Science Principles.

High School Curriculum Guide

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