



ANDALUSIA

HIGH SCHOOL

COURSE CATALOG



2014-2015

9th grade Curriculum:

English I, Grade 9- The basis of this course is instruction in reading, writing, listening, viewing, and speaking with an emphasis on vocabulary. Students will have the opportunity to express the mastery of these skills through a variety of venues. A variety of lessons on writing will be given throughout the year such as a personal narrative, persuasive essay, a process description, a character sketch, reports, stories and a play. Towards the end of the year students are expected to do a PowerPoint/research project. This course is also designed for students to explore the various diverse social, historical and cultural dimensions of literature. A broad range of literature is studied including short stories, plays, poems, and a unit in Shakespearian Literature analyzing sonnets and iambic pentameter in prose. Novels for this course include: *The Lord of the Flies*, *Adrift*, and *The Odyssey Book I, II and IX*. There will be an emphasis on reading non-fiction text. Students are required to hand in a certain number of written book reports by the end of the year to ensure that they are reading at home. Grammar essentials will be covered. In addition, there will be an emphasis on proper sentence structure and writing etiquette. Non-fiction short stories and novels have been added to the curriculum.

Global Studies I, Grade 9

The Social Studies program for 9th Grade is Global History and Geography. It provides students with the opportunity to study world cultures and civilizations and apply them to the "Five New York State Social Studies Standards." During the course of the year, students will understand the connections which exist between the study of Global History, Geography and the complex interdependent world in which they live.

Ninth grade is the first year of a two year program. These units are developed chronologically, beginning with Ancient Civilizations and concluding with the Age of Absolutism.

Living Environment, Grade 9

This laboratory course is based on the New York State Living Environment Core Curriculum. Topics of study include unity and diversity among living things, anatomy and physiology, reproduction and development, genetics, evolution, ecology, and the impact of human activities on the physical and living environment. Students demonstrate their proficiency through examinations, laboratory activities, projects, and presentations. This course concludes with the New York State Regents Examination in Living Environment.

Integrated Algebra, Grade 9

This is the first mathematics course in high school. Algebra provides tools and develops ways of thinking that are necessary for solving problems in a wide variety of disciplines such as science, business, and fine arts. Linear equations, quadratic functions, absolute value, and exponential functions are studied. Coordinate geometry is integrated into this course as well as data analysis, including measures of central tendency and lines of best fit. Elementary probability, right triangle trigonometry, and set theory complete the course. Students will take the Integrated Algebra Regents examination at the conclusion of this course.

Art, Grade 9

Art education is essential to fulfilling the potential of the whole child by fostering intellectual, social and creative growth. Our Art program for high school provides opportunities for students to use a large variety of media in an expressive and organized form, respond critically to works of art, and learn about art expression in its social, historical, and cultural context. Students are encouraged to explore different solutions to problems to develop divergent thinking. This skill is fundamental to the creative process. This course will teach critical thinking, analysis, and judgment.

The fundamentals of drawing, design, composition, shading, printmaking, color, painting and sculpture are explored. The students are given the opportunity to express themselves through a variety of projects.

Physical Education, Grade 9

The 3 standards for physical education are included in this course: 1. Students will perform basic motor and manipulative skills. They will attain competency in a variety of physical activities and proficiency in a few select complex motor and sports activities. Students will design personal fitness programs to improve cardio respiratory endurance, flexibility, muscular strength, muscular endurance, and body composition. 2. Students will demonstrate responsible personal and social behavior while engaged in physical activity. They will understand that physical activity provides the opportunity for enjoyment, challenge, self-expression, and communication. Students will be able to identify safety hazards and react effectively to ensure a safe and positive experience for all participants. Students will be aware of and able to access opportunities available to them within their community to engage in physical activity. They will be informed consumers and be able to evaluate facilities and programs. Students will also be aware of some career options in the field of physical fitness and sports.

Arabic I, Grade 9

Arabic courses are aimed at improving students' proficiency as users of the Arabic language. Communicating in Arabic is the ultimate objective of teaching Arabic. Speaking, listening, reading and writing are developed using Islamic texts that discuss etiquette, friendship and character.

Islamic Studies/Quran Studies I, Grade 9

Islamic Studies is a course that is aimed at both building character as well as providing students with background knowledge of Islamic faith, history, and culture. Quran recitation (tajweed) is taught as a skill. Meaning of Quran (tafseer) is emphasized.

10th Grade Curriculum:

English II, Grade 10

Students are required to study three to four major literary works including: *Animal Farm*, *Fahrenheit 451*, and a unit of Shakespeare (*Hamlet*) in addition to short stories, poetry, and non-fiction essays. Students will be required to produce a variety of writing samples, including: reading responses, reflective essays, research papers, persuasive writing and poetry. There will be a focus on analyzing literary terms, with a minimum of 5-10 specific terms assigned each marking period according to grade level to ensure the scaffolding of skills and knowledge for the new Common Core English Regents taken next year. There will be an emphasis on building vocabulary. Students will be required to do a number of presentations throughout the school year.

Global Studies II, Grade 10

This program for grade ten is the second year of a two-year Global Studies course. This program focuses on the study of World History which requires an understanding of world cultures and civilizations, including the analysis of important ideas, social and cultural values, beliefs, and traditions. This study also examines the human condition and the connections and interactions of people across time and space and the ways different people view the same event or issue from a variety of perspectives. This course will concentrate on building skills necessary to pass the Global Studies Regents Exam at the end of the school year. Students must pass this exam in order to qualify for a Regents high school diploma.

Math (Geometry), Grade 10

This is the second course in mathematics for high school students. In this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways that their conclusion follows logically from their hypothesis. Congruence and similarity of triangles will be established using appropriate theorems. Transformations including rotations, reflections, translations, and dilations will be taught. Properties of triangles, quadrilaterals and circles will be examined. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics. Students will take the Geometry Regents examination at the conclusion of this course.

Chemistry, Grade 10

The course covers the following topics: the interaction between matter and energy, atomic structure, bonding, periodic trends, solutions, kinetics and equilibrium, organic chemistry, nuclear energy, and acid-base chemistry. The course meets a minimum of seven periods a week, including the laboratory section. All students who have completed the course and laboratory requirements have the option of taking the Chemistry Regents at the end of the course.

Health Education, Grade 10

The 3 standards for Health consist of: 1. Students will understand human growth and development and recognize the relationship between behaviors and healthy development. They will understand ways to promote health and prevent disease and will demonstrate and practice positive health behaviors. 2. Students will demonstrate personally and socially responsible behaviors. They will care for and respect themselves and others. They will recognize threats to the environment and offer appropriate strategies to minimize them. Students will know the basic principles of home and community safety. They can demonstrate the skills necessary to maintain their homes and workplaces in a safe and comfortable condition. They can provide a safe and nurturing environment for themselves and others. 3. Students will understand the influence of culture, media, and technology in making decisions about personal and community health issues. They will know about and use valid health information, products, and services. Students will be encouraged to advocate for healthy families and communities.

Physical Education, Grade 10

The 3 standards for physical education include: 1. Students will perform basic motor and manipulative skills. They will attain competency in a variety of physical activities and proficiency in a few select complex motor and sports activities. Students will design personal fitness programs to improve cardio respiratory endurance, flexibility, muscular strength, muscular endurance, and body composition. 2. Students will demonstrate responsible personal and social behavior while engaged in physical activity. They will understand that physical activity provides the opportunity for enjoyment, challenge, self-expression, and communication. Students will be able to identify safety hazards and react effectively to ensure a safe and positive experience for all participants. Students will be aware of and able to access opportunities available to them within their community to engage in physical activity. They will be informed consumers and be able to evaluate facilities and programs. Students will also be aware of some career options in the field of physical fitness and sports.

Arabic II, Grade 10

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Islamic Studies/Quran Studies II, Grade 10

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11th Grade Curriculum.

English, Grade 11

American literature is the focus of the curriculum with a theme that explores what it means to be American, the role of literature in shaping the American identity, and the power of the American dream. Students are exposed to research skills and develop deeper analytic thinking and writing skills. In addition to analytic literary essays, students produce reading responses and creative assignments. Literature studied includes: *In Cold Blood*, *The Great Gatsby*, *The Alchemist* and *Frankenstein*.

Students are taught to master specific skills needed for success on the ELA Regents including modeling of essay prompts. Skills covered include: listening, reading and producing reports, comparing/contrasting two pieces of literature, interpreting a critical lens and firmly taking a position or point of view in writing an essay. Students will take the English Regents at the end of their junior year.

Students will be utilizing skills needed for success on the SAT 2400 which is taken in their junior and senior year; models of the SAT essay prompts are utilized to help students prepare for the writing portion of the exam from their *Grammar & Writing for standardized Tests* text. Students are required to study and work on SAT vocabulary words from the workbook *Vocabulary Achievement* which they are quizzed on periodically throughout the year.

Algebra 2/Trigonometry, Grade 11

This is the third of the three courses in high school mathematics. In this course, the number system will be extended to include imaginary and complex numbers. Students will learn about polynomial, absolute value, radical, trigonometric, exponential, and logarithmic functions. Problem situations involving direct and indirect variation will be solved. Data analysis will be extended to include measures of dispersion and the analysis of regression models. Arithmetic and geometric sequences will be evaluated. Binomial expressions will provide the basis for the study of probability theory, and the normal probability distribution will be analyzed. Right triangle trigonometry will be expanded to include the investigation of circular functions. The course will conclude with problems requiring the use of trigonometric equations and identities. Students take the Algebra 2 and Trigonometry Regents examination at the conclusion of this course.

Physics, Grade 11

The following topics will be covered: forms of energy, interaction between energy and matter resulting in change of motion, light, electricity, sound, magnetism, predicting velocities based on energy conservation. The concepts are presented through experiments, demonstrations, and theories, which develop the ideas into unified concepts. Students will have the option to take the Physics Regents in June.

U.S. History, Grade 11

This is a chronologically organized course in U.S. History, with constitutional and legal issues developed. Emphasis is placed upon the study of industrial growth, foreign policy, and research based writing. Students will be required to practice writing a thematic essay for the Regents which requires a range of topics that needs to be analyzed before the Regents. Students will practice writing short responses to be able to answer the document based questions to prepare for the Regents. This course ends with a Regents examination in US History and Government that is required to take in June.

Physical Education, Grade 11

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Arabic III, Grade 11

Arabic courses are aimed at improving students' proficiency as users of the Arabic language. Communicating in Arabic is the ultimate objective of teaching Arabic. Speaking, listening, reading and writing are developed using Islamic texts that discuss etiquette, friendship and character. Students will begin writing essays in the advanced level A course.

Islamic Studies/Quran Studies III, Grade 11

Islamic Studies is a course that is aimed at both building character as well as providing students with background knowledge of Islamic faith, history, and culture. Quran recitation (tajweed) is taught as a skill. Meaning of Quran (tafseer) is emphasized.

Computers: Desktop Publishing, Grade 11

Students will work on creating content-based websites by learning how to use internet publishing tools. During this course students will also learn the basics of computer-aided publishing techniques to create posters and flyers for school-related activities and events. In addition, students will design the high school newsletter and yearbook using the latest graphics and publishing applications.

12th grade Curriculum:

AP English Literature and Composition, Grade 12

This course will emphasize both American and British literature. Students are exposed to research skills and develop deeper analytic thinking and writing skills. In addition to analytic literary and rhetorical essays, students produce reading responses and creative assignments. This course focuses on reading, writing and speaking skills. During the last marking period students will be required to do a research project and complete a presentation in class. Students will read and analyze major American literary and cultural types, genres, characters, and traditions as well as printed informational texts. They will understand the variety and range of written communication forms and strategies while developing their own persuasive and expository writing skills. Students will do extensive work with AP sample response passages and multiple choice questions and discuss strategies for decoding and encoding AP Prompts. Students will prepare for the AP English Language and Composition Exam in May.

AP U.S. History, Grade 12

The AP program in United States History is designed to provide students with the analytical skills necessary to deal critically with the problems and materials in United States history. Students will analyze American history from the migration of Native Americans to the present time. Emphasis is placed on critical and analytical thinking skills, essay writing, and on interpretation of primary and secondary sources. Students will master a broad body of historical knowledge and demonstrate an understanding of historical chronology, use historical data to support an argument or position, and interpret and apply data from original documents. Students will prepare for the AP Exam in May.

AP Biology, Grade 12

Students will understand key science practices that can be used to develop explanations and predictions of natural phenomena, which will be examined through laboratory investigations. Students will develop advanced reasoning and inquiry skills as they design experiments, collect and analyze data using mathematics and other methods, and interpret that data to draw conclusions.

Earth Science, Grade 12

Environmental Science is an introductory environmental science course which provides students with an understanding of how the natural world works, the interrelationships living things have with each other and with their environment, and how to identify environmental problems, natural and human-made. This course will also discuss legislation, both national and international, which is designed to protect the environment.

AP Calculus AB, Grade 12

This is an advanced college level course that is offered to students who have a thorough knowledge of analytic geometry and elementary functions in addition to college preparatory algebra, geometry, and trigonometry. The purpose of the course is to prepare the student for advanced placement in college calculus. This course entails the study of: Algebraic, trigonometric, exponential, and logarithmic functions, with emphasis on their properties and limits. Differential calculus will be studied and will include defining the derivative, taking the derivatives of functions, and applying the derivative to related rates problems and maxima-minima problems. In addition, the following topics of Integral Calculus will be taken: Antiderivatives; applications of antiderivatives - specifically, the area under a curve, velocity and acceleration, and volumes of solids of revolution; techniques of integration, the definite integral; and applications of the integral. After the Advanced Placement Exam, which is administered in May, students will study the concepts of plane analytic geometry and those of polar coordinates.

Pre-calculus, Grade 12

This course is a continuation of Algebra 2/Trig. In this course students will extend their learning from Geometry and Algebra 2 to prepare themselves for topics in Calculus.

Students study functions and their properties. Topics of study include parent functions, combinations of functions, inverses of functions, and transformations. Trigonometric functions are applied to real world situations. Connections are made to the unit circle and students analyze trigonometric and circular functions. Students will also simplify expressions and prove identities using trigonometric functions. In addition, students will use the law of sines and the law of cosines to solve problems. Students will extend their understanding of rational functions from Algebra 2 and extend their understanding of exponential and logarithmic functions from Algebra 2. Students will apply vectors and parametric functions to real world situations and explore different aspects of discrete mathematics, including counting principles, the binomial expansion theorem, and sequences and series.

Arabic IV/Advanced Arabic, Grade 12

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Islamic Studies/Quran Studies IV, Grade 12

Islamic Studies is a course that is aimed at both building character as well as providing students with background knowledge of Islamic faith, history, and culture. Quran recitation (tajweed) is taught as a skill. Meaning of Quran (tafseer) is emphasized.

Physical Education, Grade 12

The 3 standards for physical education include: 1. Students will perform basic motor and manipulative skills. They will attain competency in a variety of physical activities and proficiency in a few select complex motor and sports activities. Students will design personal fitness programs to improve cardio respiratory endurance, flexibility, muscular strength, muscular endurance, and body composition. 2. Students will demonstrate responsible personal and social behavior while engaged in physical activity. They will understand that physical activity provides the opportunity for enjoyment, challenge, self-expression, and communication. Students will be able to identify safety hazards and react effectively to ensure a safe and positive experience for all participants. Students will be aware of and able to access opportunities available to them within their community to engage in physical activity. They will be informed consumers and be able to evaluate facilities and programs. Students will also be aware of some career options in the field of physical fitness and sports.

Computers: Web Design and Desktop Publishing, Grade 12

Students will learn web design technologies including HTML, CSS, frames, forms and basic Javascript. They will learn how to publish a website and use WordPress for content management. During this course students will also learn the basics of computer-aided publishing techniques to create posters and flyers for school-related activities and events. In addition, students will design the high school newsletter and yearbook using the latest graphics and publishing applications such as Microsoft Publisher and Adobe PhotoShop.