

ENGLISH

English Survey 1.0 Credit 9

English Survey is designed to give students an awareness of literature as an intellectual and cultural experience. This course teaches analysis of works of literature and literary genre. Students begin to learn in-depth critical reading and writing. Students learn to prepare, organize and present literary pieces. Knowledge of the rules of grammar and usage will be stressed through context.

World Literature* 1.0 Credit 10

World Literature is a course in effective writing, emphasizing works of literature. Students study literary genres. Students engage in critical reading and writing as well as prepare, organize and present literary pieces. This course will develop vocabulary and word identification skills for higher learning.

American Literature* 1.0 Credit 11

American Literature is a required upper-level English course that is an in-depth study of the literature of the United States from 1492-2000. This course explores major works as they relate to the development of American society. Many different forms of literature such as essays, poetry, plays, novels and short stories will be studied within an historical framework. Students will be expected to be active readers and will engage in a variety of writing exercises. Essay assignments will be directly related to the literature being studied.

British Literature* 1.0 Credit 12

British Literature is an upper-level English course that is an in-depth survey of British literature from the Anglo-Saxon period through the modern period. Many different forms of literature such as essays, poetry, plays, novels and short stories will be studied within an historical framework. Students will be expected to be active readers and will engage in a variety of writing and vocabulary exercises related to the literature being studied.

Advanced Composition 1.0 Credit 11-12

Advanced Composition is an upper-level English course that stresses writing skills on a wide variety of topics ranging from the personal essay to literary analysis. Each quarter will have a separate focus with the first quarter dedicated to the writing process, the second on poetry and the novel, the third on drama, and the final quarter on short stories. Thematic and literary genres will include topics such as tragedy, comedy, identity, and science fiction. Students will be expected to be active writers and readers. They will engage in a variety of writing exercises related to college preparatory essays and the literature being studied. This course emphasizes writing as a process and the analysis of literary forms. Many different types of literature such as essays, poetry, plays, novels and short stories will be studied. Thematic and literary genres will include topics such as tragedy, comedy, identity and science fiction. Students will be expected to be active readers and will engage in a variety of writing exercises related to the literature being studied. A minimum of two novels must be read during the course of the year.

MATHEMATICS

Algebra I

1.0 Credit

8-9

Algebra I is introduced after a student has successfully completed a one-year course in Pre-Algebra. It begins with the introduction of algebraic expressions and solving linear equations and inequalities. Throughout this course, there is ample opportunity to review and provide algebraic problems that include work with fractions, percents and decimals. Other topics covered in-depth include relations and functions, graphing, linear equations, systems of sentences, exponents, polynomials, factoring of polynomials, rational expressions and equations, radicals, quadratic function/equations/elementary trigonometry and statistics/probability.

Geometry

1.0 Credit

9-10

Prerequisite: Successful completion of Algebra I.

Geometry utilizes the basic Euclidean concepts of point, line, plane to build a logical science that includes the study of angles, triangles, quadrilaterals and other polygons, circles and solids. Many lessons are designed as a learning activity incorporating various types of reasoning skills-intuitive, inductive and deductive. Proofs are presented to formalize the deductive learning techniques. Opportunities for the student to use algebra skills in relationship to various geometric theorems and principles are abundant. Integration of geometry with other sciences and studies, such as architecture, engineering, physics, and the like are included throughout the year.

Algebra II

1.0 Credit

11-12

Prerequisite: Successful completion of Geometry.

Algebra II prepares students to use advanced algebra skills and concepts. The flexibility of the program provides teachers with a variety of approaches to make algebra work. This course actively involves students in their learning to develop their mathematical power through problem solving strategies, cooperative learning projects and critical thinking and reasoning activities. Manipulatives and technology are used to help students explore and develop concepts, which help to connect algebra to everyday life.

Algebra III

1.0 Credit

11-12

Prerequisite: Successful completion of Algebra II.

Algebra III is based on the fundamental skills of mathematics. The primary purpose is to show students how mathematics can be applied to their lives in interesting, enjoyable, and meaningful ways. This course covers a wide range of topics including set theory, logic, number theory, algebra, and financial management, geometry, measurement, probability theory and statistics. There are three major goals: to help students acquire knowledge of fundamental mathematics; to show students how mathematics can solve authentic problems that apply to their lives; to enable students to develop problem-solving skills, fostering critical thinking, within a varied, interesting, and contemporary setting. This course helps develops strong problem-solving skills. It includes real life applications of mathematics, worked examples with matching problems, updated real-world data, and mathematical modeling.

Pre-Calculus**1.0 Credit****11-12***Prerequisite: Successful completion of Algebra II.*

Pre-Calculus is an advanced course that begins with a review of linear and quadratic equations, inequalities, systems and graphs, functions and relations. Polynomial, rational, exponential and logarithmic functions are reviewed and expanded upon. Topics also include an in-depth study of trigonometric and inverse trigonometric functions, polar coordinates and complex numbers, finite and infinite sequences and series plus probability.

Calculus**1.0 Credit****12***Prerequisite: Completion of Pre-Calculus with a "B" or above.*

Calculus is a fourth-year college-level mathematics course building on a strong foundation in algebraic and trigonometric problem-solving techniques. Calculus is explored through the interpretation of graphs and tables and analytic methods. The use of technology (graphing calculators) also is used to increase the students' understanding of mathematical relationships, visually show relationships and solve problems. Applications are related to solutions of real-world problems (e.g. biology, business, chemistry, physics, statistics, etc.). To maximize their learning, students should be prepared to spend an above normal amount of time engaged in problem solving outside of class time.

SCIENCE

Physical Science

1.0 Credit

9

Physical Science is a science course based on experience. Students in this class will participate in frequent thought-provoking demonstrations that require them to predict, observe and explain scientific outcomes. Hands-on activities, including both teacher-directed and student-directed laboratory work, also will provide students with experience in the world of science. Students will be encouraged to become active learners as they learn about physical and chemical discoveries of the past and present. The major topics to be explored include matter, energy, sound, light, electricity and magnetism.

Biology

1.0 Credit

9-10

Biology is the study of life, its characteristics, evolution and environment. This course stresses critical thinking, problem solving and laboratory investigation. Course concentration areas will include introductory biochemistry, cellular structure and function at the molecular level, physiology, genetics and ecology. Additional areas of study will include zoology, botany, evolution theory and classification. An emphasis will be placed on personal organization, plus cooperative and independent learning activities. Classroom discussions, lectures, labs and assigned projects are integrated into the course to provide a broad spectrum of learning opportunities.

Chemistry

1.0 Credit

10-11

Chemistry is a science course with a balance of qualitative and quantitative work. The qualitative work includes verbal and written communication of facts, ideas, concepts and findings. The use of appropriate language is stressed. The quantitative work involves measurement, graphical analysis and mathematical problem solving. These aspects are supported by hands-on student activities that emphasize the scientific process. Applications and societal implications ensure that chemistry is perceived to be relevant to everyday life.

Marine Science

1.0 Credit

11-12

Prerequisite: Successful completion of Biology.

Explore the classification, anatomy and physiology of organisms in the marine environment, as well as their ecological functions as part of complex biological communities and various sea zones. Discover the origins of the oceans and their meaning to mankind. This course requires graphing, data collection, calculating and other hands on assignments.

Physics

1.0 Credit

11-12

Prerequisite: Successful completion of Algebra II Honors or Pre-Calculus.

The goal of Physics Honors is to help students develop higher order thinking skills through problem solving and analysis of common situations. Students will learn to make a connection between the concrete world around them and the world of physics. The course introduces fundamental topics in classical physics and introduces modern physics. The major areas of physics that are covered are measurement, mechanics, waves, optics, electricity, magnetism and atomic physics. The course is designed for students who might pursue scientific or engineering studies at the college level.

AP Biology**1.0 Credit****11-12**

Prerequisite: Successful completion of Biology and one other laboratory science.

AP Biology is designed to be similar to a Biology course taken by college students who plan to major in Biology. Students who take this course should have a good background in science with previous coursework in Biology, Chemistry and/or Physical Science. Students who take and pass the AP Biology Test may be awarded college credit for this class. The topics covered by this course are outlined by the College Board; it is designed to provide students with the factual basis and analytical skills necessary to deal with the field of Biology. It is a lab based course, revolving around the completion of twelve advanced laboratory experiments. The topics include those covered in a regular Biology course but much more in depth. The study of Molecules and Cells is 25% of the class, Heredity and Evolution is another 25%, and the study of Organisms and Populations is 50% of the class.

SOCIAL SCIENCES

World Geography **1.0 Credit** **9**

World Geography allows students to identify and explore the countries of the world. The main classifications throughout this course rely heavily on the themes of creation, people, place, region, and human environment interaction. The focus of these themes is incorporated into the understanding of the world and its people.

World History **1.0 Credit** **10**

This historical survey course examines the development of civilization through modern civilization. The students will cover material from the Old Stone Age to present-day occurrences including ancient civilizations, Enlightenment, Industrial Revolution, French Revolution, World War I and II, Russian Revolution and the Korean and Vietnam Wars. Students will appreciate the diversity in varying world cultures and understand that countries reflect their historical roots and geographic location. The course's emphasis is on a thematic understanding of world history and culture and its influence on the history of human progression through the present.

American History **1.0 Credit** **11**

Students will survey United States history by themes from its discovery to the present day. This course will explain the relationship between the past and present situation of the United States. The program focuses on interpreting sources and evidence of historical events, along with understanding the cause and effect relationships that exist between events, people and the growth of the United States.

Economics **1.0 Credit** **9-12**

Economics is an introductory immersion into how individuals and nations make choices regarding the effective use of scarce resources. This course teaches students to apply basic principles and theories to practical simulations and real-life case studies to make the study of economics exciting and applicable. The program focuses on business practices and allows students to gain insight into cultural differences, language barriers and communication possibilities of the global market.

American Government **1.0 Credit** **9-12**

United States Government introduces students to the world of politics, government and legislation. Students learn about the origins of government as well as the foundations for the U.S. government. This course also addresses how a vague document, the Constitution, has been able to be the foundation for the U.S. government for over 200 years.

Street Law **1.0 Credit** **9-12**

Street Law's approach to law-related education is to provide practical information and problem solving opportunities that develop in students the knowledge and skill necessary for survival in our law-oriented society. The course includes case studies, mock trials, role plays, small group exercises, and visual analysis activities. The course is designed to give students a basic knowledge of law that could be of practical use to them in everyday life.

FOREIGN LANGUAGE

Spanish I

1.0 Credit

8-9

Spanish I is an introduction to Spanish. Students will develop basic listening, reading, writing and speaking skills in Spanish, while exploring the rich cultural heritage of the Hispanic world.

Spanish II

1.0 Credit

9-10

Spanish II is an intermediate level course for students who have already begun to understand, read, write and speak Spanish. Students will review and build upon Spanish I grammar and vocabulary. They will improve their communication skills as they describe present, past and future events and expand their cultural awareness.

Spanish III

1.0 Credit

10-11

Spanish III is an extensive intermediate course that will review grammar and help develop a more sophisticated style of writing. A strong emphasis will be placed on spoken language. Students will also research various athletes.

Spanish IV

1.0 Credit

11-12

Spanish IV is an advanced level course where students will be challenged to build language fluency as they complete projects and oral presentations dealing with current events in the Hispanic world.

French I

1.0 Credit

8-9

French I is an introduction to French. Students will develop basic listening, reading, writing and speaking skills in Spanish, while exploring the rich cultural heritage of the French-speaking world.

French II

1.0 Credit

9-10

French II is an intermediate level course that helps students to communicate and to express themselves effectively on many aspects of daily life. After reviewing, students will be able to apply French level I material in more communicative contexts and then describe past events and talk about the future. The four skills- listening, speaking, reading and writing will be reinforced so as to fully understand the culture of the French – speaking world.

French III/IV

1.0 Credit

10-12

French III is an advanced level course that helps students to develop linguistic proficiency and cultural sensitivity. The students' knowledge of basic structures of the language will be reinforced so that they may go beyond the simple manipulation of forms and get the tools and confidence to express themselves in their new language. This course broadens the students' communication skills and deepens their appreciation of other cultures.

ELL

Middle ELL

0.0 Credit

6-8

This course draws on a variety of literature through which students continue to develop proficiency in listening, speaking, reading and writing. Fiction and non-fiction literature serve as the foundation for vocabulary and grammar development, and literature selections may be tied to topics in social studies and science. The course relies heavily on the writing process and technology. It is a two-year alternating curriculum which may be repeated.

English Composition I

1.0 Credit

9-12

The emphasis of this course is on producing spoken and written English to develop students' fluency and accuracy in the language. Written expression focuses on sentence combination and paragraph organization, with extensive practice in grammar. This course relies heavily on the writing process and technology. It complements Reading I and Survey.

English Composition II

1.0 Credit

9-12

This course focuses on the organization and development of ideas in paragraphs and essays for specific purposes as well as the production of clear, accurate sentences with appropriate word choice. It complements World Literature.

Reading & Listening

1.0 Credit

9-12

The reading and listening in this course promotes the development of comprehension strategies, critical thinking ability, and vocabulary acquisition. This course complements English Composition I.

TOEFL Preparation

½ Credit

9-12

Pendleton School offers a special course to help students prepare for the TOEFL and to continue their development of academic language skills in preparation for college. The School arranges for students to take the exam at appropriate times and provides transportation to and from the test site. This class may be repeated.

English Independent Study ½ Credit

9-12

Students and teachers design a course with specific goals and objectives which meet individual student language needs.

VIRTUAL COURSES

ENGLISH

English I*

1.0 Credit

9

This course seeks to expand a student's personal, social, literary and historical vision. Freshman Survey will provide students with activities that highlight many types of vision, including: foresight, tunnel vision, double vision, blurred vision, x-ray vision, and insight. The idea of vision will control each activity and also extend into the community, as students participate in GLOBAL VIEW, a cultural community arts project. The course will look at how internal ("I") and external ("other") visions connect to create the "real world" all people share.

English II*

1.0 Credit

10

English II is typically considered a sophomore English course that includes reading selections from around the world. The motif of the course revolves around the idea of dreams -- the obtainable and unobtainable. Accordingly, the readings relate to themes of fantasy, dreams, and goal setting. For instance, the Shakespeare selection students study is A Midsummer Night's Dream.

English III*

1.0 Credit

11

Tired of those heavy literature textbooks? Want an online, interactive, project-based approach, which shows you the connection between American History and American Literature? Want to earn one credit in American Literature? Become a participant in resolving controversy in American Literature by signing up for English III. See how history and literature connect. Read the perspectives of ordinary people who lived during the time, visit interesting websites, and become a creative participant in the history and literature of America. Students also have the option of combining English III and American history by taking American Studies.

English IV*

1.0 Credit

12

English IV is a senior survey course that utilizes British, American, and other cultures' literature. It follows the Sunshine State Standards. Literature and composition assignments teach students skills necessary for post High School life. Critical analysis of literature and real world applications are important in exploring the ways that history, culture, and setting influence literature and language.

* An Honors contract may be available for this course.

VIRTUAL COURSES

MATHEMATICS

Algebra I*

1.0 Credit

8-9

Algebra I is a foundation mathematics course for all future mathematics courses! In the state of Florida, Algebra I is a required course for graduation, and because of this requirement, this course meets all the state, local, and NCTM (National Council of Teachers of Mathematics) standards. The emphasis in this Algebra course is on student success by way of varied learning styles using applications, hands-on activities, group interactions, discoveries, and, of course, technology. Working through each module and every activity within the module, students will complete Algebra I with a thorough understanding of Algebra concepts and applications along with other skills in problem solving, technology application, community awareness, group interactions, and much more!

Geometry*

1.0 Credit

9-10

Geometry is a required course for college entry, which meets all local, state, and NCTM (National Council of Teachers of Mathematics) Standards. The purpose of this course is to develop geometric relationships and deductive strategies that can be used to solve real-world and mathematical problems. The course will establish the connection between Geometry and Architecture through active participation and observation of the presence of Geometry in architecture in both the modern and ancient world.

Algebra II*

1.0 Credit

10-11

Algebra II is an advanced Algebra course, required for college entry, which meets all the state, local, and NCTM (National Council of Teachers of Mathematics) Standards. The emphasis in this Algebra II course is on student success by way of varied learning styles using applications, hands-on activities, group interactions, discoveries, and, of course, technology. Working through each activity, students will complete Algebra II with a thorough understanding of advanced Algebra concepts and applications. Concepts to be learned include: graphing linear and quadratic equations, operations on polynomials, solving quadratic equations and systems of equations, analysis of roots, analysis of conic sections, logarithmic and exponential functions. Other course benefits include: problem solving, technological applications, community awareness, group interactions, and time management. Honors Algebra 2 includes extensions in: series and sequences, probability and statistics, and trigonometry.

Pre-Calculus*

1.0 Credit

11-12

The purpose of this course is to study functions and develop skills necessary for the study of calculus. The pre-calculus course includes analytical geometry and trigonometry. Credit in this course precludes credit in Trigonometry/Analytic Geometry.

VIRTUAL COURSES

SCIENCE

Earth/Space Science* 1.0 Credit 9

Join Professor Prospective in becoming an explorer of the Earth. The content includes that nature of science and the scientist. The skies, including atmosphere, winds, fronts and weather. The water, including waves and what is in the water. The land, including volcanoes, earthquakes, rocks and minerals. The past, including fossils, the ice age and glaciers. The universe, including the solar system, stars and the way the earth functions. Hop aboard and hold on for the ride.

Biology* 1.0 Credit 9-10

The purpose of this course is to provide exploratory and laboratory experiences with real-life applications in the biological sciences. Topics that will be studied are the nature of science, matter, energy, and chemical processes of life including cells, genetics, taxonomy, behavior of organisms, biological selection and agriculture.

Chemistry* 1.0 Credit 10-11

Put on your safety goggles and tour the chemistry course by applying concepts to industrial environments. Students will work through the Nuclear Power Plant to study the atom, travel through the Water Treatment Plant to study properties of matter, and move through several other industrial buildings to complete their study of chemistry. Students should have completed algebra I or be currently enrolled in algebra I. A grade of "B" or better in previous science course is required to take the honors part of this course.

Marine Science* 1.0 Credit 11-12

The purpose of the Marine Science I course is to provide an overview of the marine environment. The content includes the nature of science, the origins of the oceans, the chemical and physical structure of the marine environment, ecology of the various sea zones, marine communities, and the interrelationship between man and the ocean. Laboratory investigations will include the use of the scientific method and measurement.

Physics 1.0 Credit 11-12

Understand and use the language of mathematics to describe natural phenomena quantitatively. Uncover the secrets on conservation of mass and energy; conservation of momentum; waves and fields; and the interactions of matter and energy in this fascinating inquiry into the most fundamental of the natural sciences.

*An honors contract may be available for this course.

VIRTUAL COURSES

SOCIAL SCIENCES

World History*

1.0 Credit

9-10

The purpose of this course is to enable students to understand their connections to the development of civilizations by examining the past to prepare for their future as participating members of a global community. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, social, and employment settings.

American History*

1.0 Credit

11-12

In this course students will investigate the literature and history of the United States from the era of slavery to the present. The course is a survey of American History and Literature in which students will investigate each era in American History as defined by scholars in the field and documented in the Florida Sunshine State Standards. The purpose of the course is twofold. First, the course aims to provide students with the opportunity to gain broad knowledge of the American nation by focusing on political, cultural and economic factors that have influenced the course of events over the past 500 years in North America. Second, the course seeks to offer students the opportunity to acquire investigative skills necessary to evaluate a wide range of circumstances, synthesize effective solutions to problems, and evaluate outcomes.

Economics*

½ Credit

10-12

Satisfying society's diverse needs and wants is limited by time, money, energy and resources. Find out how economic systems manage these limitations by developing systems of exchange and balancing the use of scarce resources. Examine the local and global consequences of economics decisions, the role of technology in economics and the function of government in shaping economic policy.

American Government*

½ Credit

10-12

American Government explores the role and processes of American government by taking a journey through Washington D.C. This course is designed to help students understand the U.S. Constitution. Students look at their personal beliefs and how these beliefs affect government. Students also consider responsible behavior for a citizen in a democratic country.

Art History*

1.0 Credit

9-12

You know how your feet get so tired walking on those hard marble floors in a museum? Put your feet up, open your eyes and visit the most remarkable works of art and architecture the world has ever seen. Today's art and architecture can be awesome, but nothing compared to the experiences you will have with the pyramids of Egypt, the monuments of Greece and the Great Wall of China. Come join our voyage to the world of living history. The purpose of this course is to study art history, the relationship of art history to other disciplines, art criticism, and theory of art from ancient times to the middle Ages. This course meets or exceeds the objectives for Florida's Art History I.

VIRTUAL COURSES

ELECTIVES

Business Systems & Technology **1.0 Credit** **9-12**
Plan vacations and business trips, book concerts, reserve hotels and restaurants, and cater to your client's every business need. Develop time management, keyboarding, word-processing, spreadsheet and communication skills, while working from your own computer.

Emergent Computer Technology **1.0 Credit** **9-12**
This course is designed for students who are learning about new technologies as they participate in their regular on-line classes. Students are able to earn an extra credit through this. The projects for this class utilize assignments from other courses, on-line discussions, and a unit on careers. This will be a full year, 1 credit course open to any high school student. There are no prerequisites.

Critical Thinking Skills/ SAT Prep **½ Credit** **10-12**
Prerequisite: Completion of Algebra I and Geometry. Must be at least a 10th grader.
This course is designed to strengthen the student's test-taking skills so as to enhance his/her scores on the Scholastic Assessment Test. Students will practice thinking strategies, become thoroughly familiar with the structure of standardized exams, and build verbal competence and mathematics reasoning. Each student can call on an instructor to receive personalized lessons and guidance as he/she pursues higher test score goals.

Life Management Skills **½ Credit** **9-12**
This course will include consumer education, communication skills, positive emotional development, marriage and relationship skill-based education, nutrition, prevention of human immunodeficiency virus infection, acquired immune deficiency syndrome (AIDS), and other sexually transmitted infections (STI's), benefits of sexual abstinence and consequences of teenage pregnancy, information and instruction on breast cancer detection and testicular cancer detection, cardiopulmonary resuscitation (CPR) drug education and the hazards of smoking.

Personal Fitness **½ Credit** **9-12**
This course is designed to help students gain the knowledge necessary to develop a personal fitness plan based on their current fitness level. The course promotes a non-competitive environment and focuses on the student's personal goals and personal choice of activities to meet those goals. The purpose of this course is to (a) acquire knowledge of physical fitness concepts (b) understand the influence of lifestyle on health and fitness, and (c) begin to develop an optimal level of fitness.

Psychology**1.0 Credit****9-12**

This course is a scientific study of human development, learning, motivation and personality. The course provides an empirical examination from various sources of the often ambiguous aspects of behavior and mental processes and emphasizes practical applications of behavioral concepts to solving problems and making decisions.

Journalism**1.0 Credit****9-12**

Study the evolution of journalism and topics such as freedom of the press, yellow journalism, and journalism's contributions to the world and its influence on politics. Explore techniques of writing news, sports, and feature and opinion articles, following the guidelines of the Associated Press Stylebook.

MIDDLE SCHOOL

LANGUAGE ARTS

Language Arts 6 **0.0 Credit** **6**

Language Arts 6th gives students the opportunity to sound out words in order to succeed in their history and science courses. Students will be formally introduced to English grammar so that they can have a solid foundation for future English courses. Students will listen to the English language in order to develop listening and comprehension skills. Students will read in order to further their vocabulary and comprehension skills. Written language expectations will include: book reports, descriptive essays, summaries, brief biographies and a three to four page paper.

Language Arts 7 **0.0 Credit** **7**

Language Arts 7th is an integrated language arts course focusing on building grammar and vocabulary skills. Students are led to develop a practical working knowledge of grammar in the context of literature. Attention also is given to the analysis of works of literature and the development of writing techniques. Written language expectations will include: creative projects, stories, poems, exposition projects, nonfiction essays and the application of research skills.

Language Arts 8 **0.0 Credit** **8**

Language Arts 8th is an integrated language arts program focusing on reading, listening skills, verbal skills and written language. Students will learn to read more critically, further develop comprehension skills and continue the strong emphasis on vocabulary development. Reading selections will include fiction, non-fiction and poetry. Literary terms will be covered extensively. Grammar will include parts of speech, agreement and correct usage of the various types of clauses. Writing will be frequent and varied, including the use of references, research and bibliographies, where appropriate.

MIDDLE SCHOOL

MATHEMATICS

Math 6

0.0 Credit

6

6th Grade Mathematics is intended for beginning middle school children. This class creates a basic foundation required for all math students. These basics include place value, adding, subtracting, multiplying and dividing whole numbers, decimals and fractions. Also included are introductions to geometry, algebra and units of measurement.

Math 7

0.0 Credit

7

7th Grade Mathematics reinforces the basic mathematical concepts and skills that students practiced in the two previous mathematics offerings. Concepts, procedures and vocabulary that students need in order to be successful in upper-level algebra and geometry courses are introduced and continually practiced. Students learn to simplify expressions containing parentheses as the first step to solving multi-step equations. They are introduced to exponents, square roots, geometric formulas and adding, subtracting, multiplying and dividing signed numbers. This course works extensively with ratios, percentages, fractions, mixed numbers and decimals.

Pre-Algebra

0.0 Credit

8

Pre-Algebra is a pre-requisite for Algebra I. It is a one-year course that begins by introducing algebraic expressions and order of operations with positive and negative integers. Emphasis is placed on solving first degree equations and inequalities. Additional topics include factors, exponents, ratio, proportion and linear functions/graphing.

Algebra I

1.0 Credit

8

Algebra I is a high school level course. See description under high school Mathematics.

MIDDLE SCHOOL

SCIENCE

General Science **0.0 Credit** **6**

General Science is a course designed to explore four of the main branches of science: Life Science, Physical Science, Earth Science and the Human Body. In creating an overview of scientific concepts and the scientific method, students will learn that both within (the micro) and outside (the macro) of their world exists an interconnected web which can be interpreted, discovered and explained through scientific investigation and analysis. The development of a scientific vocabulary and mindset will be facilitated through the use of readings, various types of technology and media, hands-on activities and experiments.

Life Science **0.0 Credit** **7**

Life Science is designed to show the integration of various science disciplines with an emphasis on life science. The students will learn scientific laboratory techniques as well as how to observe and record data using the scientific method. Also, the students will apply classification techniques to organisms and types of matter. Relationships between organisms and their environments will be another focus. The students will be held responsible for the quality of their work, encouraging them to become self-motivated, self-starters and taking ownership of their science class.

Earth Science **0.0 Credit** **8**

Earth Science is the study of Earth and its place in the universe. It includes the study of geology, oceanography, meteorology and astronomy. Students will be learning about minerals, rocks, mapping the Earth's surface, plate tectonics, earthquakes, volcanoes, soil formation, erosion and depletion. Also emphasized are energy resources, fresh water, oceans, the atmosphere, weather, the solar system, stars, galaxies and the universe. The course of study includes laboratory investigations, integrated studies, career opportunities, hands-on activities, class discussions, videos, computer activities and research, current events, field trips, demonstrations and class interactions. This course is designed to promote student interest through student-oriented activities developing thinking and decision-making skills with meaningful application to today's world and future.

MIDDLE SCHOOL

SOCIAL SCIENCE

World Cultures I 0.0 Credit 6

The purpose of this course is to enable students to develop multicultural understanding. The students will use geography concepts and skills to actively seek information and systematically apply decision-making processes to real-life situations. The content will include world politics (in terms of culture, location and physical characteristics), population studies and historical change. This course meets the Sunshine State Standards.

World Cultures II 0.0 Credit 7

The purpose of this course is to enable students to understand that the world is comprised of many diverse cultural groups who have made significant contributions to our past and present. Students will understand the shared characteristics among various cultural groups. The content will include characteristics of cultures, development of cultural activities and the complexity of global issues. This course meets the Sunshine State Standards.

American History 0.0 Credit 8

The purpose of this course is to enable students to understand the development of the United States within the context of history, with a major focus on the pre-Reconstruction period. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures and humanities. The knowledge will be used to solve problems in academic, civil, social and employment settings. A review of United States history prior to 1880 is incorporated into the course. This course meets the Sunshine State Standards.

