

Canterbury School of Florida

Curriculum Guide 2010 – 2011

LANGUAGE ARTS

The Language Arts program has four goals: development of communication skills, improvement of critical and analytical reading skills, presentation of literary heritage and refinement of skills necessary for completion of the critical essay and a lengthy research paper.

Essential to the school's overall program, the Language Arts program emphasizes development of the power of comprehension, critical thinking, and cohesive fluency in oral and written expression. At the same time, it is designed to provide experiences and activities, particularly in literature, which will help students become more discriminating readers and will promote life-long learning.

Building on skills developed by learning grammar concepts in Lower and Middle Schools, students in grades 9 - 12 are required to write many compositions and to make oral presentations. Literary analysis skill-building continues through the progressive introduction of additional literary devices. Literature texts for grades 9 and 10 are general anthologies, which draw upon literature of many nations and encompass the following genres: novel, poem, essay, short story and play.

Each year, with the exception of the junior year, includes a complete play by William Shakespeare. Grades 11 and 12 concentrate on American and British literature, respectively. Students are often asked to write critical essays, and feedback from teacher to student is a crucial component of this program.

To fulfill the English requirement for graduation, upper school students must successfully complete four years of Upper School English, as well as Writing I and Writing II. Introduction to Speech Communication is strongly recommended, but not required.

English 9 Honors **1 credit**

English 9 is an introduction to formal literary analysis of the various literary genres: short story, poetry, drama and novel. Literary techniques are introduced, defined and practiced in class discussions and individual written assignments. Composition skills are developed through weekly vocabulary lessons, grammar exercises and regular writing assignments. During third term, students focus on a study of the Florida Everglades as an interdisciplinary study. Students create a project in conjunction with the World Civilizations and Biology courses.

English 9 Advanced Honors **1 credit**

English 9 Advanced Honors is an expansion of the formal literary analysis of short story, poetry, drama and novel genres. Students hone their abilities to analyze literature both orally and in critical essays. In third term, this course also includes an interdisciplinary study with science and social science classes. Formal study of vocabulary and grammar continues with an emphasis on proper usage of concepts learned.

World Literature Honors (10) **1 credit**

World Literature Honors is designed to lead students to appreciate literature from different periods and cultures through a survey of classic and contemporary selections, while teaching mastery of five major skill areas: writing, grammar, vocabulary, critical thinking and literary analysis. Students are guided through concepts of the following genres: short story, drama, nonfiction, poetry, heroic tradition and novel.

World Literature Advanced Honors (10) **1 credit**

World Literature Advanced Honors is designed to study examples of the major poetry, fiction, drama and essays of authors around the world from the first writings of ancient man through present day. A chronological survey, it provides ample opportunities for students to examine attitudes and customs of many cultures throughout history, as well as historical events, authors and genres.

American Literature Honors (11) **1 credit**

The American Literature Honors course surveys American authors and their works within the context of American history and the emergence and development of American values. The course asks students to make comparisons between authors and to discern differences in various epochal

styles and themes. Two full-length novels and at least one play are studied to experience the devices of these forms of literature more fully. Grammar and vocabulary continue to be studied intensively. Students learn to write more critically and analytically in their essays.

AP English Language and Composition **1 credit**

The purpose of the AP English Language and Composition course is primarily to expand the student's understanding of American Literature with an emphasis on critical analysis. This course will focus on "the American experience" and what it means to be an American, not only to the writers, but to the student as well. Designed as a feeder course for AP English Literature and Composition, this course will encourage the student to develop evaluative and interpretive skills as well as vocabulary and composition skills. In addition, students review rhetoric, rhetoric terminology, and the structure of writing in order to prepare them for the AP English Language examination.

British Literature Honors (12) **1 credit**

British Literature is a senior-level course designed to cover the history of literature from the Anglo-Saxon period through the present day. Students are expected to read and analyze works from each period and to write critical essays on a variety of genres. Vocabulary exercises focus on SAT/ACT format questions. Composition work also focuses on grammar applications, individual analytical skills and coherent argumentation.

AP English Literature and Composition **1 credit**

This senior-level course designed to cover the history of British literature from the Anglo-Saxon period through present day. Additionally, this course prepares students for the AP Examination in English Literature and Composition and for college-level courses. Intensive reading, literary analysis, extensive composition work and critical thinking are emphasized in order to spark the students' motivation and to increase their levels of literary awareness. Through student-oriented activities, the course facilitates looking beyond the superficialities of a work to find the complexities of literature.

Writing I Honors (formerly Expository Writing) **0.5 credit**

This Expository Writing course introduces students to a variety of essay forms including description, narration, analysis, process, classification, definition, comparison and contrast, cause and effect, and persuasion. Students engage in activities such as pre-reading, active reading, pre-writing, writing and revising of multiple drafts, and peer evaluating. Each student is individually evaluated and is given specific goals to achieve before and after the course is completed.

Writing II Honors (formerly Research and Writing) **0.5 credit**

Working with faculty advisors, seniors must research a topic, develop a thesis, write a statement of purpose and method, and create a project that will be evaluated by a team of faculty members. Previous projects have included a solar-powered boat, a booklet outlining adolescent behavioral problems, a presentation on the integration of arts education into a middle school curriculum, and a documentary on the homeless.

Introduction to Speech and Communication **0.5 credit**

Introduction to Speech Communication is designed to assist students in understanding and implementing oral communication skills. Learning is centered on student participation in a variety of speaking / listening situations designed to increase the understanding of the interpersonal nature of all speech communication. Students are also led toward an understanding of the importance of speech communication.

Creative Writing **0.5 credit**

Creative Writing will build on a student's previous writing and language arts skills while enabling the student to explore his or her own creative faculties and abilities. This course will serve as an introduction to creating and writing poetry and short stories. Students will read and study works by many different authors in each genre. Each student should develop as not only a writer but as a reader as well, for in order to become a good writer, one must first be a good reader.

Shakespeare's Plays Honors **(0.5 credit)**

Shakespeare's Plays provides an introduction to the Elizabethan dramatist's work. Class participation is an integral part of this course as all of the plays are read aloud by the students. Discussion is based upon the students' own questions and analyses of the rhetorical devices employed by Shakespeare. Typically, three plays are read, one each from the comedies, histories and tragedies.

MATHEMATICS

The learning of mathematics plays a key role in preparing students for life in a constantly changing economic and technical environment. Problem solving should be the central theme of all mathematics courses. This will provide the background necessary for students to explore, create and adjust to changing conditions.

Students should learn to value mathematics and communicate in its language. The more confidence they have in their mathematics ability, the more they will come to enjoy the subject and apply its lessons to all facets of their lives. To fulfill the mathematics requirement for graduation, students should successfully complete four years of mathematics in high school, including Algebra I, Geometry, and Algebra II. Various sequence options are available according to interest and maturity in math.

Algebra I Honors **1 credit**

In Algebra I Honors, students develop proficiency with mathematical skills, expand understanding of mathematical concepts and improve logical thinking through consideration of the following topics: integers, rational and irrational numbers, mathematical properties, polynomials, factoring, algebraic functions, inequalities, linear equations, quadratic equations and coordinate graphing. Naturally, this course points toward Geometry H and Algebra II H. Prerequisite – Pre Algebra H or Placement test

Algebra I Advanced Honors **1 credit**

This course includes but is not limited to using operations with integers and rational numbers in algebraic situations; using properties of operations to solve equations of various forms; solving inequalities; using the properties of exponents; performing operations with polynomials; factoring; performing operations with algebraic fractions; solving systems of equations and inequalities; representing functions and relations using words, tables, symbols and graphs; solving radical equations; solving quadratic equations by factoring, completing the square and using the quadratic formula. Projects are required. Prerequisite – Placement test

Geometry Honors **1 credit**

Through problems dealing primarily with plane and solid geometry, the Geometry course stresses the relation between intuitive ideas and their mathematical definitions. Deductive reasoning via proofs dealing with lines, planes, triangles, quadrilaterals, circles and spheres is emphasized. A thorough review of algebraic concepts is integrated in the class. Construction problems with straightedge and compass, coupled with locus problems, lead toward further study in plane coordinate geometry and trigonometry. Prerequisite – Alg I

Geometry Advanced Honors **1 credit**

The intent of Geometry Advanced Honors is to promote the learning and understanding of geometric concepts and to encourage the student to relate this knowledge to real life situations. The development of logical thinking through planned problem solving is a primary goal. Students are encouraged to use proper mathematical terms and to learn to communicate and connect mathematically. The connections between Algebra and Geometry are emphasized. Introductions to discrete mathematics will be presented to better expose students to areas of mathematics that may fit into their career goals. Graphing calculators and computers will be used to motivate students to use technology to help them solve problems and prepare for life in the real world. Prerequisite – Alg I AH and faculty recommendation.

Algebra II Honors **1 credit**

In Algebra II Honors, Students review Algebra I topics and then expand upon those concepts. The main topics covered in Algebra II include solving systems of equations in two and three variables, solving non-linear (quadratic) systems, functions, polynomials, rational exponents, complex numbers and radical equations. Students continue to develop problem-solving skills, logical-thinking skills, and critical-thinking skills. Prerequisite – Alg I H

Algebra II Advanced Honors **1 credit**

The goal of Algebra II Advanced Honors is to give students access to experiences and challenges that will lead to their enjoyment and

appreciation of mathematics. The objective is to develop their critical thinking and algebraic skills so they may pursue further mathematical courses. They will also be given exposure to applications in the real world. They will use calculators (scientific and programmable) as an enhancement to their learning. Every effort will be made to encourage the use of proper mathematical terms. Students are given opportunities to apply problem-solving skills in group situations to promote the concept of teamwork. Prerequisite – Alg I AH and faculty recommendation.

Trigonometry **0.5 credit**

Advanced Topics in Mathematics **0.5 credit**

At this level, students review Algebra II topics and then forge ahead, thus preparing the students for college. The chief topics of interest include, but are not limited to, solving simultaneous equations in two and three variables, solving quadratic systems, direct and inverse variation, word problems, functions, logarithms, trigonometry and solving radical equations. The class text emphasizes the integration of geometric and algebraic principles. Students also continue to develop problem-solving skills, logical-thinking skills, and critical-thinking skills.

Advanced Algebra with Financial Application **1 credit**

(formerly Finite Math) In this course students use knowledge learned in the past in order to solve more advanced types of problems. These problems focus on real-life applications and provide the background needed so that students may succeed in their first-year math class in college. Throughout the year, students study topics such as reviewing basic mathematical concepts; characteristics and graphs of functions, including linear, quadratic, and polynomial; exponential and logarithmic equations and applications; systems of linear equations and inequalities; linear programming; matrices; financial mathematics, including compound interest and annuities; probability; statistics; and trigonometry. A portion of the course is spent sketching graphs by hand, as this skill is vital to the students' survival in more advanced math courses.

Pre-Calculus Advanced Honors **1 credit**

Pre-Calculus Advanced Honors prepares students for the study of Calculus. This is accomplished by an overall sharpening of skills in Algebra, Geometry and Trigonometry that allows students to better grasp and understand the study of functions. They study extensively the graphing of functions - both with and without the use of a programmable calculator. The students are encouraged to study topics from the geometric and algebraic viewpoints whenever possible. The programmable calculator facilitates this. Real life situations involving mathematics are also discussed. Prerequisite – Alg II AH and faculty recommendation

AP Calculus AB **1 credit**

This course is taught according to the nationally prescribed syllabus to prepare students to take the AP Calculus AB Examination. The content and degree of coverage is intended to equal that of a college-level Calculus I class at any major university. Students are exposed to an intuitive understanding of the concepts and are given experience with the methods and applications involved. Topics covered include the following: functions, differential calculus and integral calculus. Students are required to use programmable calculators to enhance their learning - not to replace the mathematics. Mathematical modeling of real life applications is emphasized, as is the importance of writing in mathematics. Prerequisite – Pre-calculus AH

AP Calculus BC **1 credit**

Calculus BC is offered to students who have completed AP Calculus AB and scored a four or five on the AP Exam. Calculus is explored through the interpretation of graphs and tables as well as analytic methods. Students study the representation of differential equations with slope fields, solve separable differential equations analytically and solve them using numerical techniques. Students study convergence and divergence of series using technology. Students also use a multi-representational approach to investigate and solve problems, to write about their conclusions, and to work together to communicate mathematics orally. They work with graphical and data-based problems, and study applications in biology, business, chemistry, economics, engineering, physics and the social sciences. Prerequisite – AP Calc AB and score of 4 or 5 on AP exam

AP Statistics **1 credit**

This course is the equivalent of a one semester, non-calculus based course in introductory statistics in college. Four themes form the basis of the class: statistical inference; anticipating patterns; exploring data; and sampling and

experimentation. Prerequisite – Algebra II AH or Trigonometry/Adv Topics in Math

WORLD LANGUAGES

The goal of the world languages program in grades 9 - 12 is to teach students to communicate effectively in French, Latin or Spanish. The contemporary languages, French and Spanish, stress the development of the four basic skills of listening, speaking, reading and writing while Latin students focus primarily on reading and writing skills. World language students also become aware of cultures and lifestyles which differ from their own.

Students must complete three consecutive years of a world language to satisfy the school's graduation requirements. Many competitive colleges prefer four years of language. Honors and AP options are offered to highly qualified students.

French I Honors or Spanish I Honors 1 credit

First-year language classes teach the beginning fundamentals of four skills – listening, speaking, reading and writing with an emphasis on listening and speaking. The approach is an eclectic one, but relies heavily on the oral-aural method, in which students actually speak the language from the first day of class. Students learn how to make appropriate choices in syntax, grammar, gesture and style to fit specific communication situations. They learn to risk themselves by trying new vocabulary or grammatical structures in order to make themselves understood. All French and Spanish students engage in a dynamic process involving interaction among themselves and between them and the teacher.

French II Honors or Spanish II Honors / Advanced Honors 1 credit

The second year language course continues the study of skills begun in the first year, and deepens facility with basic French or Spanish grammar structures. A significant emphasis is placed on auditory comprehension and on expression. Students are urged throughout the course to use their newly learned skills in both conversation and in writing. If class sizes dictate, the classes in each language may be split into Honors and Advanced Honors sections.

French III Honors or Spanish III Honors 1 credit

The third-year language course, which completes the basal program in French or Spanish, encompasses a body of concrete vocabulary and everyday language structure. Students continue the process of developing language competency skills with an ongoing emphasis on auditory comprehension and oral expression in order to improve their communicative skills. This course is required to meet the graduation requirement for world language study.

French III Adv Honors or Spanish III Adv Honors 1 credit

The third-year Honors level is for students highly proficient in French or Spanish. Students build on foundations by reviewing all grammatical structures, adding vocabulary and increasing the frequency and complexity of writing. They also develop heightened fluency through more exposure to the history, geography and literature of French and Spanish-speaking countries.

French IV Adv Honors or Spanish IV Adv Honors 1 credit

The fourth-level language class is offered to students who have demonstrated a true desire to deepen proficiency in French or Spanish. This course strives to help students attain linguistic proficiency by providing numerous opportunities for reading, discussions, vocabulary building and refinement of grammar structures. Students who successfully complete this level should feel prepared to enter an Advanced Placement course their senior year.

AP French Language or AP Spanish Language 1 credit

Advanced Placement French or Spanish Language is available to students who demonstrate superb ability in oral expression, vocabulary and grammar of their chosen world language.

AP Spanish Literature 1 credit

Following the prescribed Advanced Placement syllabus, this course intends to challenge the advanced Spanish student with a broad overview of Spanish and Hispanic literature from medieval times through present day. The list of approximately 60 works from more than 35 authors, containing poems, plays, short stories and novels, will demand frequent essays and participation in active class discussions. The main objective for the course is to foster an interest in foreign literature and use it as a springboard for understanding ourselves, our history and the world around us.

Latin I Honors 1 credit

This course provides a review of the grammar, syntax, and vocabulary acquired in seventh grade. Students will expand their knowledge of Latin grammar, with a focus on verb forms and vocabulary acquisition. Emphasis will be placed on using context clues to create smooth English translations, and on composing Latin sentences that employ good Latin word order. In addition, students will learn more about Roman history and society through the readings in the Latin and classical mythology textbooks. Prerequisite: a B in 7th grade Latin

Latin II Honors 1 credit

This course provides a review of the grammar, syntax, and vocabulary acquired in seventh grade and Latin I. Students broaden their knowledge of Latin grammar, including more complex structures prevalent in real Latin literature. Sentences and paragraphs are composed in Latin, but students are challenged to move away from word-to-word translations to more conceptual rather than literal translations. Students read longer selections of Latin text and work toward smooth English translations. They read passages which are increasingly more faithful to actual Roman literature, and on occasion, read Latin texts that have not been adapted. Through reading as well as supplemental materials provided by the teacher, students increase knowledge of the Roman world and society.

Latin III Honors 1 credit

This course reviews and reinforces grammar and vocabulary from previous levels with the goal of reading Latin literature containing advanced structures. Students continue English-to-Latin translations and guided compositions, as well as occasional free compositions. They read larger selections of Latin text and work on English translations that remain faithful to the original Latin. The goal is to become more proficient readers of Latin poetry and prose. Through reading passages and with supplementary material provided by the teacher, students learn more about Roman society, history, mythology, Italy and Greece.

Latin IV Advanced Honors 1 credit

This course is offered to students who have demonstrated both superior skills in the language and the ability to transition to college-level work. Students will refine their knowledge of the grammar learned in Latin I-III, learn more complex grammatical structures, read un-adapted selections of Latin poetry and prose, and study the cultural and historical context of the literature. This course will prepare students to take AP Latin Vergil the following year, since much focus will be placed on essay writing, rhetorical devices, and scansion of dactylic hexameter in spring semester; however, the skills in literary analysis and interpretation studied throughout the year will benefit students in future literature courses in any language.

AP Latin: Vergil 1 credit

AP Latin: Vergil is offered to students who have demonstrated superior skills in the language and the ability to complete college-level work. Students will learn the cultural and historical context of Vergil's national epic, the *Aeneid*, as well as rhetorical devices and how to scan the meter of the poetry. Course objectives include reading, translating, understanding, analyzing, and interpreting selections of text, including passages that have not been prepared in advance. Students will study the entire *Aeneid* in English and the Latin passages required by the College Board's Advanced Placement Latin course description. This course will prepare students for the Advanced Placement exam in May.

Classical Mythology Honors 0.5 credit

This course is an introduction to Graeco-Roman mythology, a survey of the important creation myths, gods and goddesses, heroes and epics, sagas, and sanctuaries and cults of the Greeks and Romans. In addition, students will study the different societal functions of mythology, as well as the enduring influence of these stories on Western art, literature, and culture.

NATURAL SCIENCES

The upper school science curriculum has the complex role of preparing students for both a highly technological world and of dealing with the increased dilemmas of the environment. Students are actively involved in the scientific method and the development of the historical theories through observations and experimentation. They will be prepared to face a highly technological world.

To fulfill the science requirement for graduation, students must successfully complete three credits of a laboratory science in the areas of biology, chemistry and one elective.

Biology Honors 1 credit

Students are introduced to four major topics: ecology and environmental issues; various systems and taxonomy groups; molecular and cellular study; and various concepts in genetics. Students perform traditional and computerized laboratory experiments and, with calculator-based laboratory equipment, are able to take their studies outdoors. Science, social science, and English departments also prepare the students to create a project on the Florida Everglades as part of an interdisciplinary study in the third term. This is a traditional college-preparatory course in biology and is required prior to entrance in the AP Biology course.

Biology Advanced Honors **1 credit**

In addition to the objectives established for the regular Biology course, students are expected to perform many laboratory experiments involving acid rain, enzyme reactions, cellular respiration, fermentation, population density, conductivity and several others. Through this more rigorous course, students are better prepared for other Honors and AP courses in science.

Chemistry Honors **1 credit**

The goal of the Chemistry course is to look at the behavior, composition, structure and properties of matter so that students may have a better understanding of the world around them. Specific topics covered include atomic structure, matter and energy, the elements and their structure, ionization, mole and mass relationships, equilibrium, phases of matter, equation writing and historical perspectives on discoveries in chemistry. The development and practice of good, safe laboratory techniques is stressed.

Chemistry Advanced Honors **1 credit**

The purpose of Chemistry Honors is multifold: understand and use the scientific method as it applies to the study of matter and energy, expand scientific vocabulary to develop problem-solving skills, use accepted laboratory procedure in a safe environment, and gain a historical perspective on discoveries in chemistry. The students also learn real-life applications of chemistry and associated career opportunities.

Physics Honors **1 credit**

Through the Physics course, students gain knowledge and understanding of nature and the relationships between matter and motion. Topics include the following: mechanics, work and energy, thermodynamics, electromagnetics and atomic theory. Throughout this course, a student's awareness of the interconnectedness of the universe is enhanced. An emphasis is placed on projects.

Marine Science II Honors (formerly Marine Biology) **1 credit**

In this Marine Biology course, students engage in experiential education to reinforce knowledge of all marine ecosystems and will focus intensely on the Florida marine ecosystem. Through marine sampling field trips and tours of local marine laboratories and aquariums, Marine Biology will enable students to become active marine scientists. (Course alternates years with Marine Science I).

Astronomy Honors **0.5 credit**

The objective of this course is to give the student an appreciation for some of the more common objects in the sky, namely the sun, moon, constellations, and galaxies. Students learn about our own solar system and its place in the Milky Way galaxy. The goal is to enlighten and provoke students' curiosity about the universe and give students ways to engage in a life-long study of our cosmos.

Integrated Science I (formerly Florida Studies) **0.5 credit**

This course will focus on the ecological history of the state of Florida. Students will begin by studying Florida's water cycle along with the plants and animals found in their state. From there, they will study the history of human impact on the state, from Native Americans to modern day developers. The last part of the course will focus on the future of Florida and what they as citizens can do to ensure the future of the state's natural resources. At the end of the course, students will produce an article for a newsletter and a video segment on a topic related to Florida ecology. This course will also have field trips to study the natural wonders of Florida first-hand and examine how human activities have impacted the state. Biology and Chemistry are prerequisites for this course.

Integrated Science II (Marine Science Research) **0.5 credit**

Students will study the four branches of oceanography and how scientists in each discipline conduct research in the marine environment. They will examine the tools that oceanographers use in their work and how advances in technology have pushed marine science research forward. Throughout the course, students will look at the scientific method and how researchers in the field of oceanography use the method in conducting their research and presenting their results to other scientists. Students will apply their new

scientific knowledge and collect, analyze and present data from a research cruise aboard an oceanographic research vessel. In addition to their presentation, students will turn in a research paper at the end of the term. Biology and chemistry are prerequisites for this course.

AP Biology **1 credit**

This course is designed to meet the objectives of the General Biology course at the college level. Additionally, the course is taught to prepare students for the AP Examination in Biology. The aim of the course is to develop an understanding of the basic structure of living organisms on the chemical and cellular levels. Topics covered include the biology of cells, energetics, diversity of life, the biology of plants and animals, evolution and the role of organisms in natural systems. Students also conduct traditional and computer simulated laboratory experiments. Biology and Chemistry are prerequisites of this course. (This course alternates years with AP Chemistry)

AP Environmental Science **1 credit**

This class addresses historical, ecological, social, political and economic ramifications of the global environmental crisis. The course has a rather broad scope covering biology, chemistry, physics, earth science and the social sciences including history, economics and politics. Although the course crosses many disciplines, there are six themes that reinforce all of the material learned in the class: the scientific method; energy; earth is a system; the role of humans in the environment; the historical, social, political and economic issues that help create our environment; and sustainability. Prerequisites are Algebra I and biology.

AP Physics B **1 credit**

This course will require students to apply their knowledge to physical phenomena and problems. It also requires interpretation of data presented in a variety of formats, uses basic mathematical reasoning (not including Calculus), and requires students to carry out experiments to collect and interpret data. Specific concepts include Newtonian mechanics; fluid mechanics and thermal physics; electricity and magnetism; waves and optics; and atomic and nuclear physics. The course prerequisite is the successful completion of Honors Physics or College Preparatory Physics with a teacher recommendation.

AP Physics C **1 credit**

This course examines electricity, magnetism and mechanics with an emphasis on calculus. The course is more intensive and analytical than the AP Physics B.

To Be Offered in 2011 – 2012

Physics Advanced Honors **1 credit**

The students in Physics Honors cover the same topics as the regular Physics class but in greater depth and exploration, with an emphasis on mathematical analysis. The students develop teamwork in laboratory experiments and projects. (This course alternates years with Physics Honors)

AP Chemistry **1 credit**

As a second-year course of study, students should already have a solid foundation in the following areas: composition of matter, mass and measurements, stoichiometry, reactions in aqueous solutions, the periodic table, periodic trends of the elements, basic concepts of chemical bonding, states of matter, gas chemistry, and nomenclature. In addition, students learn about more advanced chemical reactions, molecular geometry and bonding patterns, kinetics, equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. (This course alternates years with AP Biology)

Marine Science I Honors (formerly Oceanography) **1 credit**

In this class, students explore the four main branches of oceanography: geology, chemistry, physics, and biology. Students learn throughout the year that all four of these disciplines are interconnected in such a way that a true oceanographer has a solid background in all areas. Students look at how and why the ocean formed, what comprises the seawater of the ocean, what causes global weather patterns, and what lives in the world's oceans. In addition, students participate in various field trips that will occur throughout the year. (This course alternates years with Marine Science II)

SOCIAL SCIENCES

The social science program has three fundamental goals: developing and improving study and communication skills, enhancing analytical and critical-thinking skills, and acquiring the appropriate concepts and content of the social sciences. Achievement of these goals should produce more

aware, knowledgeable, competent students better prepared to meet world challenges.

Throughout the social science program, faculty teach students the content necessary for understanding the world as it relates to humans, and they consider the social and intellectual development of the students, both individually and in groups. The program encourages students to comprehend relationship between the educational process and their own lives. It also addresses the real need to nurture the developing intellectual, organizational and study skills of students.

Survey courses and a humanities orientation address the breadth of the social sciences. The upper-level required courses and electives, with a more narrow temporal focus and emphasis upon reading in primary sources, fulfill the need to acquire a greater depth of understanding. It is an underlying, and very important, concern to acquaint students with the wonderful variety of human cultural and spiritual experiences and to foster an appreciation and respect for the values and traditions of other cultures, especially in the contemporary world.

World History Honors 1 credit

This course focuses on stories of peoples, events, and institutions from the earliest civilizations to modern time. Peoples' beliefs, the institutions they form, and the cultures they transmit from one generation to another are all part of history. Knowledge of geography is important in understanding how and why events took place and interactions between people and environments. Students move beyond rote learning of events and dates to gain an understanding of how and why those events occurred and their historical significance. Students learn that history can be interpretive and can change with each generation's new understanding of past events. A Florida Everglades interdisciplinary project in conjunction with biology and English is a part of the course.

World History Advanced Honors 1 credit

This course is similar in content to the World History Advance Honors. However, students are expected to perform at a higher level, as demonstrated by an outstanding work ethic and attitude. A Florida Everglades interdisciplinary project in conjunction with biology and English is also a part of the course.

American Government Honors 0.5 credit

The primary goal of this course is to build an understanding of the structure and workings of the United States government. This goal is fulfilled through a study of the Constitution and the three branches of the U.S. Government: Executive, Legislative and Judicial. Further, students are exposed to issues such as civil rights, civil liberties, political parties, interest groups, the media, and the Pluralism / Elitism debate. Students who wish to explore American Government as an Advanced Placement option may do so with the permission from the Social Science Department Chair.

Contemporary History Honors 10 0.5 credit

Contemporary History features important social, economic and political developments since the mid-19th century. Particular emphasis is placed on causes and effects of World War I, the Great Depression, World War II, the Cold War and post-Cold War era. The course provides students with a solid chronology of events that mark important stages in the history of the modern world. Factors that influence decisions and events include geography, economics, politics, cultural changes and religion. The course challenges students to tie the past to the present and reflect on the importance of the study of history as it pertains to life today and civilization tomorrow.

United States History Honors 1 credit

United States History gives students a chronological history of the United States from the age of explorers to present time. Various aspects are emphasized including discovery, colonization, revolution, constitutional government, industrialization, westward expansion, Civil War, reconstruction, World Wars I and II, the Cold War and its aftermath. A study of facts is necessary to develop analysis and synthesis skills. Why events occurred will be explored, and attempts will be made to see if alternative solutions or scenarios were possible.

Ancient Greece 0.5 credit

Ancient Greece looks at Greek history from prehistoric Greece to the time of Alexander the Great. Minoan and Mycenaean cultures are introduced and lead to 5th century BC Athens and Pericles. Greek mythology is included as are art, architecture and warfare. This course is an excellent preparation for a visit to Greece, as well as a foundation for further studies in western civilization.

Ethics, Philosophy and Religion Honors 1 credit

This senior-level course presents an introduction to ethics and value theory from a rational and philosophical basis evidenced in its application to daily life. Students must first determine what is "legal" and what is "moral." In this sense, part of the course is applied ethics. Such topics as euthanasia, reproductive choices, the death penalty, and environmental ethics may be considered as determined by student interest. The course also presents a basic and concise approach to historical and philosophical foundations of the major religions of the world. Selected readings include Judaism, Christianity, and Islam. As religion is a personal matter and respect for opposing views must be carefully rendered, much attention is given to listening to the viewpoints of others and to looking at issues from more than one viewpoint. A special focus of Ethics, Philosophy and Religion is the students' exploration of the lives of individuals who by their works and personal examples have changed the last part of the century.

AP Human Geography 1 credit

This course examines human use, modification and understanding of the earth's surface. Basic geography is covered as is human social organization and the associated environmental degradation. Specific skills include use of spatial data and maps; geography; populations; cultural patterns; political organization of space; agriculture and rural land use; industrialization and economic development; and cities and urban land use.

AP Psychology 1 credit

This course introduces students to the scientific and systematic study of human and animal behavior. Specific topics include history and approaches; research methods; biological bases of behavior; sensation and perception; states of consciousness; learning; cognition; motivation and emotion; developmental psychology; personality; testing and individual differences; abnormal psychology; treatment of psychological disorders; and social psychology.

AP United States History 1 credit

AP United States History is designed to provide students with analytical skills and factual knowledge necessary to deal critically with problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands equivalent to those made by a full-year introductory college course. Students assess historical materials, their relevance to an interpretive problem, their reliability and importance, and weigh evidence and interpretations presented in historical scholarship. Students develop 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.

To Be Offered in 2011 – 2012

AP Macroeconomics 0.5 credit

This course addresses the principles of economics that apply to an economic system as a whole. Included in the course are an understanding of economic performance measures, national income and price determination, the financial sector, inflation, unemployment, stabilization policies, economic growth and productivity, international trade and finance economics.

AP Microeconomics 0.5 credit

This class is designed to allow students to thoroughly understand the principles of economics that apply to the activities of producers and consumers within economic systems. Topics include basic economic concepts, product markets, factor markets, and market failure and the role of governments.

AP Comparative Government and Politics 1 credit

This course teaches students the fundamental concepts of government and politics that allow them to study political processes in other countries. Six countries (Great Britain, China, Iran, Mexico, Nigeria and Russia) are studied to allow students to go from abstract political concepts to specific concrete examples. Issues discussed include political systems; sovereignty, authority and power; political institutions; citizens and society; political and economic change; and public policy. The class is taught in conjunction with the Government and Politics: United States class as each is a one semester course.

AP United States Government and Politics 1 credit

This course offers students an analytical course on government and politics in the United States. The course includes general concepts on US politics and

yet gives specific examples to further explain the concepts. The class addresses the constitution; political beliefs and behaviors; political parties, interest groups and mass media; government institutions; and public policy, civil rights, and civil liberties. The class is taught in conjunction with the Government and Politics: Comparative class as each is a one semester course.

ARTS EDUCATION

Canterbury's Arts Education program uses an interdisciplinary approach to teach basic skills and cultivate appreciation for visual arts and performance arts in music, drama and film. The arts curriculum teaches theory and historical background in courses, including studio classes. This knowledge is then applied to hands-on, practical experiences through a variety of media. Students of the arts participate in productions, concerts, performances, competitions and exhibits. Every student is given the opportunity to discover and explore talents in any and all of the arts. The program provides a forum for creative expression and enriches the academic curriculum by offering students insight to their personal creativity and the relevance of the arts to society.

Art History Honors 0.5 credit

The purpose of this course is to introduce students to the major achievements in painting, sculpture and architecture from prehistory to present day. In addition to the text, art prints, slides and films enhance the students' exposure to famous artists and their works. Students also have "hands-on" studio experiences to further enrich their understanding of the ideas, styles and techniques found in the visual arts.

Drawing 0.5 credit

This course teaches students to become more visually aware of how art is a part of everything they see around them. Students learn the language of design, the principles and techniques of design, and practical applications in commercial drawing. This course challenges students to be creative in solving problems of design, yet also enables them to produce visually dynamic works of art.

Painting 0.5 credit

This course teaches students multiple skill levels. Students learn about various artists in history, contemporary artists, styles and methods, as well as the different types of media. Each student is encouraged to begin by sketching several compositions, then work toward final execution in watercolor, acrylic or oil. Students who have never worked with oil make smaller compositions, then increase the size of the work as they adapt to oil's unique properties. As with drawing, students apply elements and principles of design so that underlying concepts are supported in their approach.

Ceramics 0.5 credit

Ceramics covers hand-building and wheel techniques with step-by-step instruction using slides, video and demonstrations given by the instructor. Students learn simple and complex techniques in decorating and glazing. Students understand the firing process, chemical compositions of clay and glazes, and the various factors of successful kiln firings.

Photojournalism 1 credit

Students are taught photographic composition, layout and design, *Photoshop* and how to write journalistically. Additionally, students develop a portfolio of images produced either digitally or through black and white photographic methods in the darkroom. Their work is exhibited both in the school's yearbook and the annual Artfest exhibit.

Band 1 credit

This course is designed to provide opportunities for solo and small group performance. Woodwind, brass, percussion, orchestral string, piano, and guitar students are welcome to participate. No audition is required. The level of music performed will depend on each student's ability and aptitude in learning the material. Class is organized and conducted in a studio format, rather than a traditional classroom model. This style of organization allows for individual growth and development of each student at his or her own pace.

Music History 0.5 credit

In Music History, students have the opportunity to incorporate an understanding of music in the context of historical study. Students enhance their understanding of the development of the arts as an integral part of cultural evolution. Through their study, demonstrations and listening examples, students identify the elements of music performance and composition. Students also identify the origins of contemporary musical styles as they relate to historical styles.

Musical Theater 1 credit

This course is a performance-oriented vocal ensemble for upper school students. The purpose is to develop vocal ability and to perform music of different periods for chapel service, special school events, concerts and competition.

Technical Theater 0.5 credit

In Technical Theater, students participate in the production operations of a public performance. Students acquire practical skills in such areas as set design, scene constructions, properties, lighting, sound and music, assistant directing, stage management, stage crew work, costumes, makeup, house management, and publicity. Students are required to attend rehearsal time outside of class.

Theater History 0.5 credit

Students study dramatic theory and literature within the context of the social, cultural and historic periods in which they were created. There is a chronological emphasis on play reading of archetypical genres and periods (from African storytelling through classical Greek, Roman, medieval and the English Renaissance periods). Students learn about theater terminology, major playwrights and plays, stagecraft and acting styles and theater architecture from an historical and cultural perspective. Classroom activities include interactive visual exploration using technology, reading and analysis of plays, viewing films of representative genres and periods, writing critiques, as well as acting, technical and dramaturgical projects.

Playwriting 0.5 credit

Students study the art and craft of writing plays and produce a variety of dramatic writings, both collaboratively and individually. Student writings are reviewed by peers as well as critiqued by the instructor. As a final project for this class, each student writes a one-act play, correctly formatted and suitable for submission to student playwriting competitions. A dramatic reading of the one-act, or a selection from the one-act, using student actors, is part of the final project.

Creative Process 1 credit

Students study the art of creativity, including creating a role in the Theatre, writing a monologue, stage movement, juggling, film techniques, combat on stage and design. This class is tailored to its ensemble of students and aids in their continual development as life-long learners. It also gives each student an idea what style of learner and creative artist they are. This course fulfills the history of the arts requirement.

Music Appreciation 1 credit

This course teaches the basic elements of music appreciation and music history. It allows students with no previous musical experience to explore music through reading and listening. Students will be encouraged to express themselves in group discussions during class. Topics covered in the course will include musical styles and taste, musical instruments, music theory, roles of composers, and other basic elements of music. Ultimately, the students will have a greater knowledge and understanding of how and why music has evolved. This course fulfills the history of the arts requirement.

Dance - Beginning and Advanced 0.5 credit

The purpose of this class is to develop a student's awareness of the basic movements, positions, and vocabulary of Ballet, Jazz, and Modern dance. Students will gain awareness of their physical abilities, improve flexibility and learn to produce movement from each style accurately. This class offers the student a unique form of physical activity and exposure to the art form of dance. Various forms of dance will be observed through videos and live performances. Students will be expected to identify the concepts learned in the class as they see the movements performed. Students will come away with basic knowledge and exercises of each style, be able to repeat simple combinations and increase their range of motion. This class is performance driven. The students learn short dances throughout the semester, and perform them at the end of the semester for an audience.

AP Studio Art 1 credit

This course does not have an exam at the end. Instead, students are graded on three aspects of a year long portfolio. The grades are based upon quality of the work, breadth of the art, and concentration of the body of work on one underlying concept. Student enrollment in the course will be based upon teacher recommendation. Students will enroll in one of the following Studio Art courses: **Studio Art: 2-D Design, Studio Art: 3-D Design, or Studio Art: Drawing.** All three courses may be taken for credit. Prerequisites for the course are drawing and painting.

AP Art History 1 credit

The AP Art History course follows the same guidelines as the Art History course, but in much greater depth and intensity. This course is designed for those students who will take the AP Art History Examination in May. Through oral and written interpretation of art pieces, students demonstrate comprehension and critical analysis of artist, period and technique.

COMPUTER SCIENCE

Computers and the technology they offer are a vital part of contemporary education. Students must feel comfortable using computers for word processing, searching the Internet for information, using programmable calculators and conducting laboratory experiments through computer simulation. Therefore, the Computer Science curriculum is not limited to the courses listed below; instead, it is integrated into each department's curriculum.

Computers and SMART Boards™ are accessible to students and teachers in every classroom and the library. The Knowlton and Hough campuses are connected via wireless transmitter and Internet access. Teachers and students continually use the computer as a resource to enhance knowledge gained in the classroom, and as a means of learning through multimedia presentations.

Communication with Digital Media 0.5 credit

The purpose of this course is to develop multimedia projects for the web, communicating knowledge of a subject area. Students begin the course with an investigation into their roles as digital citizens. They study, discuss and emulate the types of collaborations that are occurring in the Web 2.0 environment with technologies such as blogs, social bookmarking, wikis, digital stories, podcasts, and RSS feeds. They explore audio and digital multimedia production using Audacity, Photostory, and Windows Movie Maker software. The culmination of the course includes a project published on the Internet. This project uses one of the media studied to demonstrate knowledge of an elected subject area.

PHYSICAL EDUCATION AND HEALTH

To fulfill the Physical Education requirement, students must successfully complete one full credit, usually defined as one-half credit Physical Education and one-half credit Health.

Physical Education 0.5 credit

The Physical Education program is designed to help students develop physical and social skills to successfully participate to the best of their abilities in individual and team sports. Sports included in the physical education class include volleyball, team handball, basketball, "razzle dazzle" football, soccer and floor hockey.

Personal Fitness 0.5 credit

Students advance the psychomotor, affective and cognitive skills learned in the physical education course. Students will broaden their understanding of rules and terminology in relation to physical education and the human body. Students improve their overall health and well-being while participating in lifelong sports and recreational activities. Students also successfully develop social skills through teamwork and sportsmanship.

Health 0.5 credit

The purpose of the Health course is to familiarize students with aspects of mental and physical personal health. Topics include mental health, social health, substance abuse, disease prevention, safety and first aid, CPR certification and nutrition. Health specialists from the local community are invited throughout the semester to provide accurate and up-to-date information for complete understanding of the subjects. Students receive information that will enable them to make healthy choices and positive decisions and to develop behaviors that promote healthy lifestyles.

Weight Training 0.5 credit

The course enables students to acquire basic knowledge and awareness of weight training. The goal is to improve muscular strength and endurance and to enhance self-image.