

<b>APEX Courses</b>	<b>FL Course Code</b>	<b>Mandatory Core/ Elective</b>	<b># Credits</b>	<b>Honors Available</b>	<b>Details</b>
Intensive Reading/Intensive Language Arts	10004100 10004000	Elective	0.5 up to 2	No	This course is designed for FCAT retakers who need additional work before retaking the FCAT reading test to meet the graduation requirement.
English I: Introduction to Literature and Composition	1001310X H - 1001320X ESOL - 1002300X	Core	1	Yes	This course focuses on the study of literature, language, and composition. Emphasis is placed on developing an understanding of literary genres, terms, and elements, and on using the writing process to produce various types of papers. Speaking and listening skills, vocabulary skills, study skills, and reference skills are also included.
English II: Critical Reading and Effective Writing	1001340X H - 1001350X ESOL - 1002310X	Core	1	Yes	This course focuses on the study of literature, language, and composition. Emphasis is placed on developing an understanding of literary elements, devices, and themes and on using the writing process to produce specified types of papers. Speaking and listening skills, vocabulary skills, study skills, reference skills, and a study of mass media are also included.
English III: American Literature	1001370X H - 1001380X ESOL - 1002320X	Core	1	Yes	This course focuses on the study of literature, language, and composition. Emphasis is placed on developing an understanding of major authors, periods, features, and themes of American literature and on using the writing process to produce specified types of papers, including literary analysis, the persuasive essay, and the brief research paper. Speaking and listening skills, vocabulary development, study skills, and reference skills are also included.

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English IV: British and World Literature	1001400X H - 1001410X ESOL - 1002520X	Core	1	Yes	This course focuses on the study of literature, language, and composition. Emphasis is placed on developing an understanding of the major authors and periods of British and world literature and on using the writing process to produce specified types of papers, including literary analysis, the persuasive essay, and the research paper. Speaking and listening skills, vocabulary development, reference and study skills, and the history of the English language are also included.
English IV: Florida College Prep	1001405X	Core	1	No	All students who do not score “college ready” on a college placement test and score a Level 2 or Level 3 on the FCAT Reading test are required to take English IV: Florida College Prep during their 12th grade year. The purpose of this course is to prepare 12th grade students for the demands of college level reading and writing. Students will read, analyze, evaluate, and respond to various kinds of texts. Students will write effective arguments, explanatory pieces, narrative pieces, and research pieces. Students will collaborate, present research, and use the conventions of standard English grammar and usage appropriately in writing and speaking. Students will increase their vocabularies and read and write widely.
Creative Writing	1009320X	Elective	0.5	No	The purpose of this course is to develop skills in writing through the study of literary forms. Emphasis is placed on using all aspects of the writing process to produce publishable pieces of writing in various literary forms. Students will evaluate representative examples of literature as models for writing.

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Intensive Math	12004000	Elective	0.5 up to 2	No	The purpose of this course is to improve students' skills for FCAT. This course may not be used to meet the graduation requirement for mathematics and is not a college prep course.
Algebra I-A	1200370X	Core	1	No	This course is the first year of a two-year algebra program. Topics shall include, but not be limited to, the real number system with emphasis on rational and irrational numbers, sets, variables, algebraic expressions, patterns, relations and functions, solutions to linear equations and inequalities, rates, coordinate geometry, graphs, Venn diagrams, real-world problems, problem solving strategies, and literacy strategies.
Algebra I-B	1200380X	Core	1	No	This course is the second year of a two-year algebra program and utilizes Algebra 1a as the first-year course. Topics shall include, but not be limited to, ratios, proportions, radical expressions, algebraic notation, polynomials, factoring, coordinate geometry, graphs, solutions to linear, quadratic, and systems of equations and inequalities, real-world applications, problem solving strategies, and literacy strategies. Algebra 1a and Algebra 1b equate to one unit of Algebra 1. <b>Students are required to take the state Algebra End-of-Course Exam.</b>

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Algebra I	1200310X H - 1200320X	Core	1	Yes	<p>The purpose of this course is to provide the foundation for more advanced mathematics courses and to develop the algebra skills needed to solve real-world and mathematical problems. Topics shall include, but not be limited to, sets, ratios, proportions, radical expressions, variables, the real number system, equations and inequalities, graphs, systems of linear equations and inequalities, integral exponents, polynomials, factoring, irrational numbers, quadratic equations, Venn diagrams, coordinate geometry, problem solving strategies, and literacy strategies. <b>Students are required to take the state Algebra End-of-Course Exam.</b></p>
Geometry	1206310X H - 1206320X	Core	1	Yes	<p>The purpose of this course is to develop the geometric relationships and deductive strategies that can be used to solve a variety of real world and mathematical problems. Topics shall include, but not be limited to, logic, equivalent propositions, Euclidean Geometry, direct and indirect proofs, constructions, lines, polygons, transformations, quadrilaterals, triangles, circles, polyhedra, spheres, trigonometric ratios, problem solving strategies and literacy strategies. Prerequisite is Algebra I or equivalent. <b>Students are required to take the state Geometry End-of-Course Exam.</b></p>

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Algebra II	1200330X H - 1200340X	Core	1	Yes	<p>The purpose of this course is to continue the study of the structure of algebra and to apply these skills to fields such as science, social science, statistics, and health-related fields. Topics shall include, but not be limited to, complex numbers, functions, equations and inequalities, rational expressions and equations, absolute value, direct, inverse and joint variation, arithmetic and geometric sequences and series, systems of equations and inequalities, parabolas, quadratic equations, powers, roots, exponents and logarithms, polynomials, problem solving strategies and literacy strategies. Prerequisites are Algebra I and Geometry.</p>
Pre-calculus	1202340X	Core	1	Weighted Class	<p>The purpose of this course is to emphasize the study of functions and other skills necessary for the study of calculus. Topics shall include, but not be limited to, polynomial, rational, trigonometric/circular functions, arithmetic and geometric series, concept of limits, vectors, conic sections, polar coordinate systems, mathematical induction, parametric equations, complex numbers, real-world applications, problem solving strategies and literacy strategies. Prerequisite is Algebra II.</p>

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Liberal Arts Math	1208300X	Core	1	No	<p>The purpose of this course is to strengthen Algebra 1 skills and to explore informal geometry. State assessment skills will be reinforced. Topics shall include, but not be limited to, laws of exponents, real number properties and operations, graphs, functions, equations and inequalities, quadratic equations, coordinate geometry, polygons, quadrilaterals, triangles, solids, data sets, measures of central tendency, real-world applications, problem solving strategies and literacy strategies. This course is not recognized by the State University System as meeting one of the core courses required for freshman admissions. Prerequisites are Algebra I and Geometry.</p>
Advanced Algebra with Financial Applications	1200500X	Core	1	Weighted Class	<p>The purpose of this course is to develop the algebraic relationship and deductive strategies through financial applications that can be used to solve a variety of real world and mathematical problems. Topics shall include, but not limited to, financial planning, credit management, career explorations, equations, inequalities, linear functions, systems of linear equations and inequalities, quadratic, polynomial, exponential and logarithmic functions, interest, personal and commercial debt, mortgages, stocks, bonds, insurance, credit, taxes and measures of central tendency. Prerequisites are Geometry and Algebra II.</p>

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Math for College Readiness	1200700X	Core	1	No	<p>This course is targeted for grade 12 students whose test scores on the Postsecondary Educational Readiness Test are below the established cut scores for mathematics, indicating that they are not yet college ready in mathematics. This course incorporates the Common Core Standards for Mathematical Practices as well as the following Common Core Standards for Mathematical Content: an introduction to functions, linear equations and inequalities, solving systems of equations, rational equations and algebraic fractions, radicals and rational exponents, factoring and quadratic equations, complex numbers, and the Common Core Standards for High School Modeling. The benchmarks reflect the Florida College Competencies necessary for entry-level college courses.</p>
Probability and Statistics	12103000	Core	1	Weighted Class	<p>The purpose of this course is to explore the concepts of probability and elementary statistics. Topics shall include, but not be limited to, random experiments, probability concepts, counting principles, permutations, combinations, sample spaces, binomial distribution, concepts of descriptive statistics, measures of central tendency, measures of variability, normal distribution, statistical applications including hypotheses testing, real-world applications, problem solving strategies and literacy strategies. Prerequisite is Algebra II or higher.</p>

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Earth Science	2001310X	Core	1	Yes	This course provides opportunities for the student to develop concepts basic to the earth, including its materials, processes, history, and environment in space. Topics such as the origin of the universe and solar system, life cycle of stars, formation of rocks, land forms, plate tectonics, glaciers, meteorology, and geologic periods are included.
Physical Science	2003310X H - 2003320X	Core	1	Yes	This course provides students with a qualitative, investigative study of the introductory concepts of physics and chemistry. Topics include dynamics, periodic table, forms of energy, electricity and magnetism and chemical interactions.
Biology	2000310X H - 2000320X	Core	1	Yes	This course focuses on the study of life through the examination of fundamental concepts such as cellular biology, genetics, ecology, evolution and physiology. The scientific process and laboratory skills are emphasized along with biology's connections to other scientific disciplines. Students learn scientific writing skills and also examine current biological issues. <b>Students are required to take the state Biology End-of-Course Exam.</b>
Chemistry	2003340X H - 2003350X	Core	1	Yes	This course will provide students with the study of the composition, properties, and changes associated with matter. Topics such as atomic theory, periodic table, bonding, chemical formulas, behavior of gases, and chemical reactions are included. Prerequisite is Algebra I or equivalent.



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Physics	2003380X H - 2003390X	Core	1	Yes	This course will provide students with an introductory study of the theories and laws governing the interaction of matter, energy and the forces of nature. Topics such as kinematics, dynamics, work and power, thermodynamics, wave characteristics and magnetism are included. Prerequisite is Algebra I or equivalent with a grade of C or better.
Geography and World Cultures	21033000	Elective	0.5	No	Students develop multicultural understanding and use geographical concepts and skills to acquire information and systematically apply decision-making processes to real-life situations. They will acquire an understanding of interrelationships between people and their environment.
World History	2109310X H - 2109320X	Core	1	Yes	Students explore their connections to the development of civilizations by examining the past to prepare for their future as participating members of a global community. They 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.

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U.S. History	2100310X H - 2100320X	Core	1	Yes	Students explore the development of the United States from the Reconstruction period to the current time within the context of history by examining connections to the past to prepare for the future as participating members of a democratic society. They 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. <b>Students are required to take the state US History End-of-Course Exam.</b>
U.S. Government and Politics	21063100 H - 21063200	Core	0.5	Yes	Students gain an understanding of American government and political behavior that is essential for effective citizenship and active involvement in contemporary American society.
U.S. and Global Economics	21023100 H - 21023200	Core	0.5	Yes	Students examine choices they must make as producers, consumers, investors and taxpayers. The study of economics provides students with the knowledge and decision-making tools necessary for understanding how society organizes its limited resources to satisfy its unlimited wants.

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Multicultural Studies	21046000	Elective	0.5	No	This course provides students with the opportunity to acquire an understanding of multicultural studies. Topics include, but are not limited to, the influence of geography on the social and economic development of Native American culture, the influence of major historical events on the development of a multicultural American society and a study of the political, economic and social aspects of Native American, Hispanic American, African American and Asian American culture.
Psychology	21073000	Elective	0.5	No	Through study of psychology, students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. This will better prepare them to understand their own behavior and the behavior of others.
Sociology	21083000	Elective	0.5	No	Students acquire an understanding of group interaction and its impact on individuals in order that they may have a greater awareness of the beliefs, values and behavior patterns of others. In an increasingly interdependent world, students need to recognize how group behavior affects both the individual and society.
Art Appreciation	01003100	Satisfies Art Requirement	1	Weighted Class	The purpose is to study art history, the relationship of art to other disciplines, art criticism, and theory of art.

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HOPE	3026010X	Satisfies PE Requirement	1	No	The purpose of this course is to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness. Students will alternate between learning principals and background information in a classroom setting and applying that knowledge during physically activity.
WorkPlace Essentials	83003100	Satisfies Charter Requirement	0.5	No	The purpose of this course is to provide students with those workplace skills essential for gainful employment. The content of this course includes the following: developing an employment plan, seeking and applying for employment opportunities, accepting employment, communicating on the job, maintaining professionalism, adapting and coping with change, work ethics and behavior, demonstrating technological literacy, maintaining interpersonal relationships and demonstrating leadership and team work.

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Work Experience 1 through 4	83016100 83016200 83016300 83016400	Satisfies Charter Requirement	0.5	No	The purpose of this program is to provide support for at-risk students. This support shall be provided through instruction in the methods of acquiring the necessary human relations that will guide the transition from school-to-work. Concurrently, the student is to be engaged in paid, supervised part-time employment as a means of gaining experience in a bona-fide work environment in compliance with the Child Labor Law established by the U.S. Department of Labor for the Work Experience and Career Exploration Program. Opportunities are to be provided for obtain competencies and recognition through the student to successful work experience and to satisfactorily complete a high school education.
Personal and Family Finance	85001200	Elective	0.5	No	The purpose of this course is to give students an overview of personal finance, budget, credit, banking, taxes, insurance and investments.
<b>Literacy Advantage Courses</b>					
Literacy Advantage (LA) courses are classes that are designed for students that are reading below grade level.					
We offer the following courses through the LA curriculum in APEX:					
Algebra I					
Geometry					
Algebra II					
Physical Science					
Biology					
Chemistry					
U.S. Government and Politics					

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U.S. History					
If a student needs additional electives that are not contained within the above courses, an individual plan will be					



The purpose of this course is to provide students with those workplace skills essential for gainful employment.

The content of this course includes the following:

developing an employment plan seeking and applying for employment opportunities accepting employment

communicating on the job maintaining professionalism

adapting and coping with change work ethics and

behavior demonstrating technological literacy

maintaining interpersonal relationships and

demonstrating leadership and team work.

The purpose of this course is to provide students with those workplace skills essential for gainful employment. The content of this course includes the following: developing an employment plan, seeking and applying for employment opportunities, accepting employment, communicating on the job, maintaining professionalism, adapting and coping with change, work ethics and behavior, demonstrating technological literacy, maintaining interpersonal relationships and demonstrating leadership and team work.