

# APEX COURSES

## 9<sup>TH</sup> GRADE

### English

- **English 9 (Credit 1.0)**
  - The English 9 course is an overview of exemplar selections of literature in fiction and nonfiction genres. Students read short stories, poems, a full-length novel, and a full-length Shakespeare play, analyzing the use of elements of literature in developing character, plot, and theme. For example, in selected stories, students compare the effect of setting on tone and character development. Likewise, in the poetry unit, students analyze how artists and writers draw from and interpret source material. Each unit includes informational texts inviting students to consider the historical, social, and literary context of the main texts they study. For example, in the first semester, a Nikolai Gogol story that is offered as an exemplar of magical realism is accompanied by instruction on that genre. Together, the lesson content and reading prompt students to demonstrate their understanding of magical realism by analyzing its qualities in a literary text. Throughout the course, students respond to others' claims and support their own claims in essays, discussions, and presentations, consistently using thorough textual evidence. The range of texts includes canonical authors such as William Shakespeare, Franz Kafka, and Elie Wiesel, as well as writers from diverse backgrounds, such as Alice Walker, Li-Young Lee, and Robert Lake-Thom (Medicine Grizzlybear). Course Materials Semester 1: Optional *The Metamorphosis*. Franz Kafka. David Wylie, translator. (Classix Press, 2009). ISBN-10: 1557427666 / ISBN-13: 9781557427663. Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended. Semester 2: Optional *Macbeth*. William Shakespeare. Barbara A. Mowat and Paul Werstine, eds. (Simon & Schuster, 2003). ISBN-10: 074377103 / ISBN-13: 8780743477109 Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended.
- **English 9 Honors (Credit 1.0)**
  - The English 9 Honors course is an overview of exemplar selections of literature in fiction and nonfiction genres. Students read short stories, poems, a full-length novel, and a full-length Shakespeare play, analyzing the use of elements of literature in developing character, plot, and theme. For example, in selected stories, students compare the effect of setting on tone and character development. Likewise, in the poetry unit, students analyze how artists and writers draw from and interpret source material. Each unit includes informational texts inviting students to consider the historical, social, and literary context of the main texts they study. For example, in the first semester, a Nikolai Gogol story that is offered as an exemplar of magical realism is accompanied by instruction on that genre. Together, the lesson content and reading prompt students to demonstrate their understanding of magical realism by analyzing its qualities in a literary text. Throughout the course, students respond to others' claims and support their own claims in essays, discussions, and presentations, consistently using thorough textual evidence. The range of texts includes canonical authors such as William Shakespeare, Franz Kafka, and Elie Wiesel, as well as writers from diverse backgrounds, such as Alice Walker, Li-Young Lee, and Robert Lake-Thom (Medicine Grizzlybear). Course Materials Semester 1: Optional *The Metamorphosis*. Franz Kafka. David Wylie, translator. (Classix Press, 2009). ISBN-10: 1557427666 / ISBN-13: 9781557427663. Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended. Semester 2: Optional *Macbeth*. William Shakespeare. Barbara A. Mowat and Paul Werstine, eds. (Simon & Schuster, 2003). ISBN-10: 074377103 / ISBN-13: 8780743477109 Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended.

### Fine Arts

- **Art Appreciation (Credit .5)**
  - Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas. Coverage of each artistic movement highlights historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. Art Appreciation is based on national standards developed by the Consortium of National Arts Education Associations, as well as key state standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.
- **Music Appreciation (Credit .5)**
  - Music Appreciation is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms, classical music, and American jazz. The second semester presents the rich modern traditions, including: gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet is bringing musical forms together in new ways from all around the world.

### Mathematics

- **Algebra 1 (Credit 1.0)**
  - Florida Algebra I focuses on the understanding of key algebraic topics and the mastery of critical reasoning skills. It is aligned with Florida's Next Generation Sunshine State Standards and prepares students for Florida's end-of-course assessment for Algebra I. Through a "Discovery-Confirmation-Practice"-based exploration of algebraic concepts, students are challenged to work toward a mastery of computational skills, to deepen their conceptual understanding of key ideas and solution strategies, and to extend their knowledge in a variety of problem-solving applications. Course topics include algebraic expressions and equations; problem solving with functions; graphing; linear equations and inequalities; polynomials; radical expressions and equations; rational expressions and functions; and matrices. Florida Algebra I features ample opportunity for students to hone their computational skills by working through practice problem sets before moving on to formal assessment. Throughout the course, diagnostic assessments help students to quickly identify areas of weakness and improve performance while summative assessments chart progress and skill development. The content is specifically aligned with Florida's Next Generation Sunshine State Standards and Benchmarks.
- **Algebra 1 Honors (Credit 1.0)**
  - Algebra I is a comprehensive course that provides an in-depth exploration of key algebraic concepts. Through a "Discovery-Confirmation-Practice"-based exploration of these concepts, students are challenged to work toward a mastery of computational skills, to deepen their understanding of key ideas and solution strategies, and to extend their knowledge in a variety of problem-solving applications. Course topics include an

Introductory Algebra review; measurement; an introduction to functions; problem solving with functions; graphing; linear equations and systems of linear equations; polynomials and factoring; and data analysis and probability. Within each Algebra I lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills in a low-stakes, 10-question problem set before moving on to a formal assessment. Additionally, many Algebra I lessons include interactive-tool-based exercises and math explorations to further connect lesson concepts to a variety of real-world contexts. To assist students for whom language presents a barrier to learning, this course includes audio resources in both Spanish and English. The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

- **Mathematics Foundations (Credit 1.0)**

- Math Foundations I offers a structured remediation solution based on the NCTM Curricular Focal Points and is designed to expedite student progress in acquiring 3rd- to 5th-grade skills. The course is appropriate for use as remediation for students in grades 6 to 12. When used in combination, Math Foundations I and Math Foundations II (covering grades 6 to 8) effectively remediate computational skills and conceptual understanding needed to undertake high school-level math courses with confidence. Math Foundations I empowers students to progress at their optimum pace through over 80 semester hours of interactive instruction and assessment spanning 3rd- to 5th-grade math skills. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Formative assessments help students to understand areas of weakness and improve performance, while summative assessments chart progress and skill development. Early in the course, students develop general strategies for honing their problem-solving skills. Subsequent units provide a problem-solving strand that asks students to practice applying specific math skills to a variety of real-world contexts. The content is based on the National Council of Teachers of Math (NCTM) April 2006 publication, Curricular Focal Points for Prekindergarten through Grade 8 Mathematics: A Quest for Coherence, and is aligned with state standards.

## Health

- **Health (Credit .5)**

- Health is a valuable, skills-based health education course designed for general education in grades 9 through 12. Health helps students develop knowledge, attitudes, and essential skills in a variety of health-related subjects, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Through use of accessible information, realistic interactivities, and project-based learning, students apply the skills they need to stay healthy. These skills include identifying and accessing valid health information, practicing self-management, identifying internal and external influences, communicating effectively, making healthy decisions, setting goals, and advocating. Students who complete Health build the skills they need to protect, enhance, and promote their own health and the health of others. The content is based on the National Health Standards (SHAPE) and is aligned to state standards.

- **Health Opportunities through Physical Education (Credit .5)**

- Health Opportunities through Physical Education (HOPE) combines instruction in health and physical education in a full-year, integrated course. It focuses on developing skills, habits and attitudes to maintain a healthy lifestyle and applying lessons learned to physical fitness. Through active participation and real-world simulations, the course aims to demonstrate firsthand the value of conscientious lifestyle management. HOPE lays a foundation for making healthy decisions by building seven skills: accessing valid health information; analyzing internal and external influences; self-management; interpersonal communication; decision-making; goal setting; and advocacy. Students apply these skills to a variety of topics throughout the course, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities on weekly participation reports to verify the student is meeting his or her requirements and responsibilities. This course is based on and aligns to the National Health Standards (SHAPE) and the Florida Next Generation Sunshine State Standards for health and physical education.

## Science

- **Biology (Credit 1.0)**

- Biology focuses on the mastery of basic biological concepts and models while building scientific inquiry skills and exploring the connections between living things and their environment. The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students then apply those themes to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. The content is based on the National Science Education Standards (NSES) and is aligned with state standards. Course Materials Semesters 1 and 2: Required Biology: Exploring Life Lab Manual, Student ed. Neil Campbell, Brad Williamson, and Robin Heyden (Prentice Hall, 2004). ISBN-10: 0130642665 / ISBN-13: 9780130642660 Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **Biology Honors (Credit 1.0)**

- Biology is an in-depth course that furthers mastery of scientific skills, fosters a deep understanding of key concepts, and promotes the application of the scientific method to biological topics. The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students then apply those themes to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Biology students are frequently asked to respond to scientific problems and issues via written assignments. Moreover, Exploration activities challenge Honors students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research. The content is based on the National Science Education Standards (NSES) and is aligned with state standards. Course Materials Semesters 1 and 2: Required Biology: Exploring Life Lab Manual, Student ed. Neil Campbell, Brad Williamson, and Robin Heyden (Prentice Hall, 2004). ISBN-10: 0130642665 / ISBN-13: 9780130642660 Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **Physical Science (Credit 1.0)**

- Physical Science offers a focused curriculum designed around the understanding of critical physical science concepts, including the nature and structure of matter, the characteristics of energy, and the mastery of critical scientific skills. Course topics include an introduction to kinematics, including gravity and two-dimensional motion; force; momentum; waves; electricity; atoms; the periodic table of elements; molecular bonding; chemical reactivity; gases; and an introduction to nuclear energy. Teacher-scored labs encourage students to apply the scientific method. The content is based on the National Science Teachers Association (NSTA) standards and is aligned with state standards. Course Materials Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **Physical Science Honors (Credit 1.0)**

- Physical Science is a thorough course that provides students with an understanding of the nature and structure of matter, the characteristics of energy, and the societal implications of physical science concepts. Using the scientific method – observation, data collection, analysis, hypothesis, and conclusion – students are encouraged to extend their knowledge through the development of scientific explanations, hypotheses, and conclusions. Course topics include an introduction to kinematics, including gravity and two-dimensional motion; force; momentum; waves; electricity; atoms; the periodic table of elements; molecular bonding; chemical reactivity; gases; and an introduction to nuclear energy. The

content is based on the National Science Teachers Association (NSTA) standards and is aligned with state standards. Course Materials Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **Earth Science (Credit 1.0)**
  - Earth Science offers a focused curriculum that explores Earth's composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Course topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement, tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources. Optional teacher-scored labs encourage students to apply the scientific method. The content is based on the National Science Teachers Association (NSTA) standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required Prentice Hall Earth Science Lab Manual, Student ed. Edward J. Tarbuck and Frederick Lutgens (Prentice Hall, 2006). ISBN-10: 0131258982 / ISBN-13: 9780131258983 Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Earth Science Honors (Credit 1.0)**
  - Earth Science is a robust course that explores Earth's composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Students are encouraged to look at Earth science from both personal and worldly perspectives and to analyze the societal implications of the topics covered. Laboratory experiments introduce students to different lab techniques while building their skills in critical thinking, inquiry, and observation. Course topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement, tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources. The content is based on the National Science Teachers Association (NSTA) standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required Prentice Hall Earth Science Lab Manual, Student ed. Edward J. Tarbuck and Frederick Lutgens (Prentice Hall, 2006). ISBN-10: 0131258982 / ISBN-13: 9780131258983 Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Environmental Science (Credit 1.0)**
  - Environmental Science explores the biological, physical, and sociological principles related to the environment in which organisms live on Earth, the biosphere. Course topics include natural systems on Earth, biogeochemical cycles, the nature of matter and energy, the flow of matter and energy through living systems, populations, communities, ecosystems, ecological pyramids, renewable and non-renewable natural resources, land use, biodiversity, pollution, conservation, sustainability, and human impacts on the environment. The course provides students with opportunities to learn and practice scientific skills within the context of relevant scientific questions. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Case studies of current environmental challenges introduce each content lesson and acquaint students with real-life environmental issues, debates, and solutions. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Virtual Lab activities enable students to engage in investigations that require long periods of observation at remote locations and to explore simulations that enable environmental scientists to test predictions. Throughout this course, students are given an opportunity to understand how biology, earth science, and physical science are applied to the study of the environment and how technology and engineering are contributing solutions for studying and creating a sustainable biosphere. The content is specifically aligned to state standards and the NGSS standards for life science, earth science, physical science, and engineering, technology, and society. Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

## Social Studies

- **Geography and World Cultures (Credit .5)**
  - Geography and World Cultures offers a tightly focused and scaffolded curriculum that enables students to explore how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them. Geography and World Cultures is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards. Geography and World Cultures is designed as the first course in the social studies sequence. It develops note-taking skills, teaches the basic elements of analytic writing, and introduces students to the close examination of primary documents.
- **Geography and World Cultures Honors (Credit .5)**
  - Geography and World Cultures is a robust, one-semester course that explores how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them. At the intersection of culture and geography, students learn about art, science, individuals and communities, and history and current events. Students discover how a mountain in the distance can inspire a Sufi poet, how a river blocking a passage occupies a civil engineer and a ship builder alike, and how the sound of a busy Cairo street inspires a musician. Human history is all about cultures meeting — how they influence and inspire each other; what sets one apart from the next; and how they battle each other for land, natural resources, religious dominance, and more. Geography and World Cultures is designed as the first course in the social studies sequence. It develops note-taking skills, teaches analytic writing, and introduces students to the close examination of primary documents. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

## Foreign Languages

- French 1
- French 2
- Spanish 1
- Spanish 2
- Spanish 3

Rosetta Stone Program may be purchased for other world languages.

# APEX COURSES

## 10<sup>TH</sup> GRADE

### English

- **English 10 (Credit 1.0)**
  - The focus of the English 10 course is the writing process. Three writing applications guide the curriculum: persuasive, expository, and narrative writing. Each lesson culminates in a written assignment that lets students demonstrate their developing skill in one of these applications. English 10 follows the model of English 9 by including at least one anchor text per lesson, but the essays, articles, stories, poems, and speeches are often presented as models for students to emulate as they practice their own writing. So that these readings may serve as proper examples for students, a high proportion of texts for this course are original pieces. English 10 also continues to develop students' reading, listening, and speaking skills. Readings include poems, stories, speeches, plays, and a graphic novel, as well as a variety of informational texts. The readings represent a wide variety of purposes and cultural perspectives, ranging from the Indian epic The Ramayana to accounts of Hurricane Katrina told through different media. Audio and video presentations enhance students' awareness and command of rhetorical techniques and increase their understanding of writing for different audiences. Course Materials Semester 1: Required American Born Chinese. Gene Luen Yang. (Suare Fish, 2008). ISBN-10: 0312384483 / ISBN-13: 9780312384487. Other editions acceptable. Fast Food Nation. Eric Schlosser. (Mariner Books, 2012). ISBN-10: 0547750331 / ISBN-13: 9780547750330. Other editions acceptable.
- **English 10 Honors (Credit 1.0)**
  - The focus of the English 10 Honors course is the writing process. Three writing applications guide the curriculum: persuasive, expository, and narrative writing. Each lesson culminates in a written assignment that lets students demonstrate their developing skill in one of these applications. English 10 Honors follows the model of English 9 Honors by including at least one anchor text per lesson, but the essays, articles, stories, poems, and speeches are often presented as models for students to emulate as they practice their own writing. So that these readings may serve as proper examples for students, a high proportion of texts for this course are original pieces. English 10 Honors also continues to develop students' reading, listening, and speaking skills. Readings include poems, stories, speeches, plays, and a graphic novel, as well as a variety of informational texts. The readings represent a wide variety of purposes and cultural perspectives, ranging from the Indian epic The Ramayana to accounts of Hurricane Katrina told through different media. Audio and video presentations enhance students' awareness and command of rhetorical techniques and increase their understanding of writing for different audiences. Course Materials Semester 1: Required American Born Chinese. Gene Luen Yang. (Suare Fish, 2008). ISBN-10: 0312384483 / ISBN-13: 9780312384487. Other editions acceptable. Fast Food Nation. Eric Schlosser. (Mariner Books, 2012). ISBN-10: 0547750331 / ISBN-13: 9780547750330. Other editions acceptable.

### Fine Arts

- **Art Appreciation (Credit .5)**
  - Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas. Coverage of each artistic movement highlights historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. Art Appreciation is based on national standards developed by the Consortium of National Arts Education Associations, as well as key state standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.
- **Music Appreciation (Credit .5)**
  - Music Appreciation is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms, classical music, and American jazz. The second semester presents the rich modern traditions, including: gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet is bringing musical forms together in new ways from all around the world.

### Mathematics

- **Geometry (Credit 1.0)**
  - Geometry provides a curriculum focused on the mastery of critical skills and the understanding of key geometric concepts. Through a "Discovery-Confirmation-Practice" based exploration of geometric concepts, students are challenged to work toward a mastery of computational skills, to deepen their conceptual understanding of key ideas and solution strategies, and to extend their knowledge in a variety of problem-solving applications. Course topics include reasoning, proof, and the creation of a sound mathematical argument; points, lines, and angles; triangles; quadrilaterals and other polygons; circles; coordinate geometry; and three-dimensional solids. The course concludes with a look at special topics in geometry, such as constructions, symmetry, tessellations, fractals, and non-Euclidean geometry. Within each Geometry lesson, students are supplied with a scaffolded note-taking guide, called a "Study Sheet," as well as a post-study "Checkup" activity, providing them the opportunity to hone their computational skills by working through a low-stakes, 10-question problem set before moving on to a formal assessment. Unit-level Geometry assessments include a computer-scored test and a scaffolded, teacher-scored test. To assist students for whom language presents a barrier to learning or who are not reading at grade level, Geometry includes audio resources in both Spanish and English. The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned to state standards.
- **Geometry Honors (Credit 1.0)**
  - Geometry is a comprehensive course that provides an in-depth exploration of geometric concepts. Through a "Discovery-Confirmation-Practice"-based exploration of these concepts, students are challenged to work toward a mastery of computational skills, to deepen their understanding of key ideas and solution strategies, and to extend their knowledge in a variety of problem-solving applications. Course topics include reasoning, proof, and the creation of a sound mathematical argument; points, lines, and angles; triangles; quadrilaterals and other polygons; circles; coordinate geometry; and three-dimensional solids. The course concludes with a look at special topics in geometry, such as constructions, symmetry, tessellations, fractals, and non-Euclidean geometry. Within each Geometry lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills in a low-stakes, 10-question problem set before moving on to

formal assessment. Additionally, many Geometry lessons include interactive-tool-based exercises and math explorations to further connect lesson concepts to a variety of real-world contexts. To assist students for whom language presents a barrier to learning, this course includes audio resources in both Spanish and English. The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

## Health

- **Health (Credit .5)**
  - Health is a valuable, skills-based health education course designed for general education in grades 9 through 12. Health helps students develop knowledge, attitudes, and essential skills in a variety of health-related subjects, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Through use of accessible information, realistic interactivities, and project-based learning, students apply the skills they need to stay healthy. These skills include identifying and accessing valid health information, practicing self-management, identifying internal and external influences, communicating effectively, making healthy decisions, setting goals, and advocating. Students who complete Health build the skills they need to protect, enhance, and promote their own health and the health of others. The content is based on the National Health Standards (SHAPE) and is aligned to state standards.
- **Health Opportunities through Physical Education (Credit .5)**
  - Health Opportunities through Physical Education (HOPE) combines instruction in health and physical education in a full-year, integrated course. It focuses on developing skills, habits and attitudes to maintain a healthy lifestyle and applying lessons learned to physical fitness. Through active participation and real-world simulations, the course aims to demonstrate firsthand the value of conscientious lifestyle management. HOPE lays a foundation for making healthy decisions by building seven skills: accessing valid health information; analyzing internal and external influences; self-management; interpersonal communication; decision-making; goal setting; and advocacy. Students apply these skills to a variety of topics throughout the course, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities on weekly participation reports to verify the student is meeting his or her requirements and responsibilities. This course is based on and aligns to the National Health Standards (SHAPE) and the Florida Next Generation Sunshine State Standards for health and physical education.

## Science

- **Biology (Credit 1.0)**
  - Biology focuses on the mastery of basic biological concepts and models while building scientific inquiry skills and exploring the connections between living things and their environment. The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students then apply those themes to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. The content is based on the National Science Education Standards (NSES) and is aligned with state standards. Course Materials Semesters 1 and 2: Required Biology: Exploring Life Lab Manual, Student ed. Neil Campbell, Brad Williamson, and Robin Heyden (Prentice Hall, 2004). ISBN-10: 0130642665 / ISBN-13: 9780130642660 Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Biology Honors (Credit 1.0)**
  - Biology is an in-depth course that furthers mastery of scientific skills, fosters a deep understanding of key concepts, and promotes the application of the scientific method to biological topics. The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students then apply those themes to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Biology students are frequently asked to respond to scientific problems and issues via written assignments. Moreover, Exploration activities challenge Honors students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research. The content is based on the National Science Education Standards (NSES) and is aligned with state standards. Course Materials Semesters 1 and 2: Required Biology: Exploring Life Lab Manual, Student ed. Neil Campbell, Brad Williamson, and Robin Heyden (Prentice Hall, 2004). ISBN-10: 0130642665 / ISBN-13: 9780130642660 Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Chemistry (Credit 1.0)**
  - Chemistry offers a curriculum that emphasizes students' understanding of fundamental chemistry concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how chemistry concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply learned concepts and practice their writing skills. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how chemistry concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply concepts learned in the Studies and practice their writing skills. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required Prentice Hall Chemistry Lab Manual, Student ed. Antony Wilbraham, Dennis Staley, Michael Matta, and Edward Waterman (Prentice Hall, 2005). ISBN-10: 0131903594 / ISBN-13: 9780131903593 Semesters 1 and 2: Optional Scientific calculator This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Chemistry Honors (Credit 1.0)**
  - Chemistry offers a curriculum that emphasizes students' understanding of fundamental chemistry concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical

scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how chemistry concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply learned concepts and practice their writing skills. Exploration activities challenge students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required Prentice Hall Chemistry Lab Manual, Student ed. Antony Wilbraham, Dennis Staley, Michael Matta, and Edward Waterman (Prentice Hall, 2005). ISBN-10: 0131903594 / ISBN-13: 9780131903593 Semesters 1 and 2: Optional Scientific calculator This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **Earth Science (Credit 1.0)**
  - Earth Science offers a focused curriculum that explores Earth's composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Course topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement, tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources. Optional teacher-scored labs encourage students to apply the scientific method. The content is based on the National Science Teachers Association (NSTA) standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required Prentice Hall Earth Science Lab Manual, Student ed. Edward J. Tarback and Frederick Lutgens (Prentice Hall, 2006). ISBN-10: 0131258982 / ISBN-13: 9780131258983 Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Earth Science Honors (Credit 1.0)**
  - Earth Science is a robust course that explores Earth's composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Students are encouraged to look at Earth science from both personal and worldly perspectives and to analyze the societal implications of the topics covered. Laboratory experiments introduce students to different lab techniques while building their skills in critical thinking, inquiry, and observation. Course topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement, tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources. The content is based on the National Science Teachers Association (NSTA) standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required Prentice Hall Earth Science Lab Manual, Student ed. Edward J. Tarback and Frederick Lutgens (Prentice Hall, 2006). ISBN-10: 0131258982 / ISBN-13: 9780131258983 Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Environmental Science (Credit 1.0)**
  - Environmental Science explores the biological, physical, and sociological principles related to the environment in which organisms live on Earth, the biosphere. Course topics include natural systems on Earth, biogeochemical cycles, the nature of matter and energy, the flow of matter and energy through living systems, populations, communities, ecosystems, ecological pyramids, renewable and non-renewable natural resources, land use, biodiversity, pollution, conservation, sustainability, and human impacts on the environment. The course provides students with opportunities to learn and practice scientific skills within the context of relevant scientific questions. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Case studies of current environmental challenges introduce each content lesson and acquaint students with real-life environmental issues, debates, and solutions. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Virtual Lab activities enable students to engage in investigations that require long periods of observation at remote locations and to explore simulations that enable environmental scientists to test predictions. Throughout this course, students are given an opportunity to understand how biology, earth science, and physical science are applied to the study of the environment and how technology and engineering are contributing solutions for studying and creating a sustainable biosphere. The content is specifically aligned to state standards and the NGSS standards for life science, earth science, physical science, and engineering, technology, and society. Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

## Social Studies

- **Geography and World Cultures (Credit .5)**
  - Geography and World Cultures offers a tightly focused and scaffolded curriculum that enables students to explore how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them. Geography and World Cultures is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards. Geography and World Cultures is designed as the first course in the social studies sequence. It develops note-taking skills, teaches the basic elements of analytic writing, and introduces students to the close examination of primary documents.
- **Geography and World Cultures Honors (Credit .5)**
  - Geography and World Cultures is a robust, one-semester course that explores how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them. At the intersection of culture and geography, students learn about art, science, individuals and communities, and history and current events. Students discover how a mountain in the distance can inspire a Sufi poet, how a river blocking a passage occupies a civil engineer and a ship builder alike, and how the sound of a busy Cairo street inspires a musician. Human history is all about cultures meeting — how they influence and inspire each other; what sets one apart from the next; and how they battle each other for land, natural resources, religious dominance, and more. Geography and World Cultures is designed as the first course in the social studies sequence. It develops note-taking skills, teaches analytic writing, and introduces students to the close examination of primary documents. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.
- **World History (Credit 1.0)**
  - In World History, students learn to see the world today as a product of a process that began thousands of years ago when humans became a speaking, travelling, and trading species. Through historical analysis grounded in primary sources, case studies, and research, students investigate the continuity and change of human culture, governments, economic systems, and social structures. Students build and practice historical thinking skills, learning to connect specific people, places, events and ideas to the larger trends of world history. In critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to reason chronologically, interpret and synthesize sources, identify connections between ideas, and develop well-supported historical arguments. Students write throughout the course, responding to primary sources and historical narratives through journal entries, essays and visual presentations of social studies content. In discussion activities, students respond to the position of others while staking and defending their own claim. The course's rigorous instruction is supported with relevant materials and active learning opportunities to ensure students at all levels can master the key historical thinking skills. This course is aligned to state standards and the Common Core State Standards for Literacy in Social Studies.

- **World History Honors (Credit 1.0)**

- World History is a robust, writing-intensive course that uses multiple perspectives to trace the development of civilizations around the world from prehistory to the present. Students are encouraged to use their knowledge of critical points in history to develop their points of view and apply what they have learned to the promotion of civic action in a rapidly globalizing world. The course explores how human-geographic relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in these civilizations. Students investigate the major religions and belief systems throughout history and learn about the importance of trade and cultural exchange. Other topics include the development of agriculture, the spread of democracy, the rise of nation-states, the industrial era, the spread of imperialism, and the issues and conflicts of the 20th century. World History is designed as the second course in the social studies sequence. Students continue to improve their analytic writing and develop confidence by writing multiple short analytic pieces and longer essays, including document-based questions. Primary documents are embedded in the instruction to encourage students to make frequent connections to evidence from the past. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

#### Foreign Languages

- French 1
- French 2
- Spanish 1
- Spanish 2
- Spanish 3

Rosetta Stone Program may be purchased for other world languages.

# APEX COURSES

## 11<sup>TH</sup> GRADE

### English

- **AP English Language and Composition (Credit 1.0)**
  - In AP English Language and Composition, students investigate rhetoric and its impact on culture through analysis of notable fiction and nonfiction texts, from pamphlets to speeches to personal essays. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in communications, creative writing, journalism, literature, and composition. Students explore a variety of textual forms, styles, and genres. By examining all texts through a rhetorical lens, students become skilled readers and analytical thinkers. Focusing specifically on language, purpose, and audience gives them a broad view of the effect of text and its cultural role. Students write expository and narrative texts to hone the effectiveness of their own use of language, and they develop varied, informed arguments through research. Throughout the course, students are evaluated with assessments specifically designed to prepare them for the content, form, and depth of the AP Exam. AP English Language and Composition is recommended for 11th and 12th grade students. This course fulfills 11th grade requirements. Consequently, we recommend that students take only one of the following courses: English 11, Texas English III, and AP English Language and Composition. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required Into the Wild, Jon Krakauer (Anchor, 1996). ISBN-10: 0385486804 / ISBN-13: 978-0385486804 The Great Gatsby, F. Scott Fitzgerald (Scribner, 2004). ISBN-10: 0743273567 / ISBN-13: 978-0743273565 The Grapes of Wrath, John Steinbeck (Penguin, 2006). ISBN-10: 0143039431 / ISBN-13: 978-0143039433 A Raisin in the Sun, Lorraine Hansberry (Vintage, 2004). ISBN-10: 0679755330 / ISBN-13: 978-0679755333 The Way to Rainy Mountain, N. Scott Momaday (University of New Mexico Press, 1976). ISBN-10: 0826304362 / ISBN-13: 978-0826304360 The Things They Carried, Tim O'Brien (Mariner Books, 2009). ISBN-10: 0618706410 / ISBN-13: 978-0618706419 10: 0547750331 / ISBN-13: 9780547750330. Other editions acceptable.
- **AP English Literature and Composition (Credit 1.0)**
  - AP English Literature and Composition immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in creative writing, communications, journalism, literature, and composition. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required The Norton Anthology of Poetry, 5th ed. Margaret Ferguson, Mary Jo Salter et al, eds. (W.W. Norton, 2005). ISBN-10: 0393979202 / ISBN-13: 9780393979206 Acceptable alternate: 4th ed. (1996). ISBN-10: 0393968200 Short Fiction: An Anthology, 1st ed. (Bedford/St. Martins, 2009). ISBN-10: 0312576374 NOTE: This custom anthology is available only from Apex Learning or MBS Direct. Acceptable alternates: The Story and Its Writer, 7th ed. Ann Charters, ed. (Bedford / St. Martins, 2007). ISBN-10: 0312442718 The Story and Its Writer, 6th ed. Ann Charters, ed. (Bedford / St. Martins, 2002). ISBN-10: 0312397313 The Story and Its Writer, 5th ed. Ann Charters, ed. (Bedford / St. Martins, 1998). ISBN-10: 0312171641 Semester 1: Required Hedda Gabler. Henrik Ibsen (Dover, 1990). ISBN-10: 0486264696 / ISBN-13: 9780486264691 Other editions acceptable A Streetcar Named Desire. Tennessee Williams (Signet, 1947). ISBN-10: 0451167783 / ISBN-13: 9780451167781 Other editions acceptable Their Eyes Were Watching God. Zora Neale Hurston (Harper, 2006). ISBN-10: 0060838671 / ISBN-13: 9780060838676 Other editions acceptable Twelfth Night. William Shakespeare. Barbara A. Mowat and Paul Werstine, eds. (Washington Square Press, 1993). ISBN-10: 0743482778 / ISBN-13: 9780743482776 Other editions acceptable Semester 2: Required The Great Gatsby. F. Scott Fitzgerald (Scribner, 1995). ISBN-10: 0743273567 / ISBN-13: 9780743273565 Other editions acceptable Annie John. Jamaica Kincaid (Farrar, Straus and Giroux, 1985). ISBN-10: 0374525102 / ISBN-13: 9780374525101 Other editions acceptable Jane Eyre. Charlotte Bronte. Michael Mason, ed. (Penguin, 2006). ISBN-10: 0141441143 / ISBN-13: 9780141441146 Other editions acceptable
- **English 11 (Credit 1.0)**
  - In the English 11 course, students examine the belief systems, events, and literature that have shaped the United States. They begin by studying the language of independence and the system of government developed by Thomas Jefferson and other enlightened thinkers. Next, they explore how the Romantics and Transcendentalists emphasized the power and responsibility of the individual in both supporting and questioning the government. Students consider whether the American Dream is still achievable and examine the Modernists' disillusionment with the idea that America is a "land of opportunity." Reading the words of Frederick Douglass and the text of the Civil Rights Act, students look carefully at the experience of African Americans and their struggle to achieve equal rights. Students explore how individuals cope with the influence of war and cultural tensions while trying to build and secure their own personal identity. Finally, students examine how technology is affecting our contemporary experience of freedom: Will we eventually change our beliefs about what it means to be an independent human being? In this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and give speeches. Overall, students gain an understanding of the way American literature represents the array of voices contributing to our multicultural identity. Course Materials Semester 1: Required The Great Gatsby. F. Scott Fitzgerald. (Scribner, 1995). ISBN-10: 0743273567 / ISBN-13: 9780743273565. Other editions acceptable. Semester 2: Required A Raisin in the Sun. Lorraine Hansberry. (Vintage, 2004). ISBN-10: 0679755330 / ISBN-13: 9780679755333. Other editions acceptable. A Way to Rainy Mountain. N. Scott Momaday. (University of New Mexico Press, 1969). ISBN-10: 0826304362 / ISBN-13: 9780826304360. Other editions acceptable.
- **English 11 Honors (Credit 1.0)**
  - In the English 11 Honors course, students examine the belief systems, events, and literature that have shaped the United States. They begin by studying the language of independence and the system of government developed by Thomas Jefferson and other enlightened thinkers. Next, they explore how the Romantics and Transcendentalists emphasized the power and responsibility of the individual in both supporting and questioning the government. Students consider whether the American Dream is still achievable and examine the Modernists' disillusionment with the idea that America is a "land of opportunity." Reading the words of Frederick Douglass and the text of the Civil Rights Act, students look carefully at the experience of African Americans and their struggle to achieve equal rights. Students explore how individuals cope with the influence of war and cultural tensions while trying to build and secure their own personal identity. Finally, students examine how technology is affecting our contemporary experience of freedom: Will we eventually change our beliefs about what it means to be an independent human being? In this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and give speeches. Overall, students gain an understanding of the way American literature represents the array of voices contributing to our

multicultural identity. Course Materials Semester 1: Required *The Great Gatsby*. F. Scott Fitzgerald. (Scribner, 1995). ISBN-10: 0743273567 / ISBN-13: 9780743273565. Other editions acceptable. Semester 2: Required *A Raisin in the Sun*. Lorraine Hansberry. (Vintage, 2004). ISBN-10: 0679755330 / ISBN-13: 9780679755333. Other editions acceptable. *A Way to Rainy Mountain*. N. Scott Momaday. (University of New Mexico Press, 1969). ISBN-10: 0826304362 / ISBN-13: 9780826304360. Other editions acceptable.

## Fine Arts

### • Art Appreciation (Credit .5)

- Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas. Coverage of each artistic movement highlights historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. Art Appreciation is based on national standards developed by the Consortium of National Arts Education Associations, as well as key state standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.

### • Music Appreciation (Credit .5)

- Music Appreciation is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms, classical music, and American jazz. The second semester presents the rich modern traditions, including: gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet is bringing musical forms together in new ways from all around the world.

## Mathematics

### • Algebra 2 (Credit 1.0)

- Algebra II introduces students to advanced functions, with a focus on developing a strong conceptual grasp of the expressions that define them. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include quadratic equations; polynomial functions; rational expressions and equations; radical expressions and equations; exponential and logarithmic functions; trigonometric identities and functions; modeling with functions; probability and inferential statistics; probability distributions; and sample distributions and confidence intervals. This course supports all students as they develop computational fluency and deepen conceptual understanding. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them.

### • Algebra 2 Honors (Credit 1.0)

- Algebra II is a comprehensive course that builds on the concepts covered in Algebra I and prepares students for advanced-level courses. Through a "Discovery-Confirmation-Practice"-based exploration of intermediate algebra concepts, students are challenged to work toward a mastery of computational skills, to deepen their understanding of key ideas and solution strategies, and to extend their knowledge in a variety of problem-solving applications. Course topics include conic sections; functions, relations, and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students also cover topics relating to rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis and probability. Within each Algebra II lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills in a low-stakes, 10-question problem set before moving on to a formal assessment. Additionally, many Algebra II lessons include interactive-tool-based exercises and math explorations to further connect lesson concepts to a variety of real-world contexts. The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

### • AP Calculus (Credit 1.0)

- In AP Calculus AB, students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Instead of simply getting the right answer, students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. The equivalent of an introductory college-level calculus course, AP Calculus AB prepares students for the AP exam and further studies in science, engineering, and mathematics. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required TI-84 Plus, TI-83, or TI-83 Plus Calculator Read "Getting Started" and chapter 1 in the TI Guidebook before the course starts. Semesters 1 and 2: Optional Calculus: Single Variable, 8th ed. James Stewart (Brooks/Cole, 2016). ISBN-10: 1305266633 / ISBN-13: 9781305266636 Acceptable alternate: 7th ed. (2012). ISBN-10: 0538497831 Acceptable alternate: 6th ed. (2008). ISBN-10: 0495011614 Acceptable alternate: 5th ed. (2003). ISBN-10: 0534393667 Acceptable alternate: 4th ed. (1999). ISBN-10: 0534355625 Calculus of a Single Variable, 2nd ed. Jeffery A Cole, Michael Olinick, Dennis Pence, and Earl W. Swokowski (PWS, 1994). ISBN-10: 0534939244 This book is out of print but you may find it used. It is interchangeable with the Stewart text listed above. Cracking the AP Calculus AB & BC Exams, 2014 ed. David S. Kahn (Princeton Review, 2012). ISBN-10: 0307946185 / ISBN-13: 9780307946188 Acceptable alternate: 2012 ed. ISBN-10: 0307944867 Acceptable alternate: 2009 ed. ISBN-10: 0375428852 Acceptable alternate: 2008 ed. ISBN-10: 0375766413 Acceptable alternate: 2006-2007 ed. ISBN-10: 0534355625

### • AP Statistics (Credit 1.0)

- AP Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results of a poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real-world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP exam and for further study in science, sociology, medicine, engineering, political science, geography, and business. This course has been authorized by the College Board to use the AP designation. Course Materials Semesters 1 and 2: Required TI-89, TI-84 Plus, TI-83, or TI-83 Plus Calculator Read "Getting Started" and chapter 1 in the TI Guidebook before the course starts. Semesters 1 and 2: Optional Barron's AP Statistics, 8th ed. Martin Sternstein (Barron's, 2015). ISBN-10: 1438004982 / ISBN-13: 9781438004983 Acceptable alternate: 7th ed. (2013). 1438002025 / ISBN-13: 9781438002026 Acceptable alternate: 6th ed. (2012). ISBN-10: 0764147021 Acceptable alternate: 5th ed. (2010). ISBN-10: 0764140892 Acceptable alternate: 4th ed. (2008). ISBN-10: 0764136836 Introduction to Probability & Statistics, 14th ed. William Mendenhall, Robert J. Beaver, and Barbara M. Beaver (Brooks/Cole, 2015). ISBN-10: 1133103758 / ISBN-13: 9781133103752 Acceptable alternate: 13th ed. (2009). ISBN-10: 0495389536 Acceptable alternate: 12th ed. (2006). ISBN-10: 0534418708 Acceptable alternate: 11th ed. (2003). ISBN-10: 0534395198

## Health

### • Health (Credit .5)

- Health is a valuable, skills-based health education course designed for general education in grades 9 through 12. Health helps students develop knowledge, attitudes, and essential skills in a variety of health-related subjects, including mental and emotional health, social health, nutrition,

physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Through use of accessible information, realistic interactivities, and project-based learning, students apply the skills they need to stay healthy. These skills include identifying and accessing valid health information, practicing self-management, identifying internal and external influences, communicating effectively, making healthy decisions, setting goals, and advocating. Students who complete Health build the skills they need to protect, enhance, and promote their own health and the health of others. The content is based on the National Health Standards (SHAPE) and is aligned to state standards.

- **Health Opportunities through Physical Education (Credit .5)**

- Health Opportunities through Physical Education (HOPE) combines instruction in health and physical education in a full-year, integrated course. It focuses on developing skills, habits and attitudes to maintain a healthy lifestyle and applying lessons learned to physical fitness. Through active participation and real-world simulations, the course aims to demonstrate firsthand the value of conscientious lifestyle management. HOPE lays a foundation for making healthy decisions by building seven skills: accessing valid health information; analyzing internal and external influences; self-management; interpersonal communication; decision-making; goal setting; and advocacy. Students apply these skills to a variety of topics throughout the course, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities on weekly participation reports to verify the student is meeting his or her requirements and responsibilities. This course is based on and aligns to the National Health Standards (SHAPE) and the Florida Next Generation Sunshine State Standards for health and physical education.

## Science

- **AP: Biology (Credit 1.0)**

- AP Biology builds students' understanding of biology on both the micro and macro scales. After studying cell biology, students move on to understand how evolution drives the diversity and unity of life. Students will examine how living systems store, retrieve, transmit, and respond to information and how organisms utilize free energy. The equivalent of an introductory college-level biology course, AP Biology prepares students for the AP exam and for further study in science, health sciences, or engineering. The AP Biology course provides a learning experience focused on allowing students to develop their critical thinking skills and cognitive strategies. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students regularly engage with primary sources, allowing them to practice the critical reading and analysis skills that they will need in order to pass the AP exam and succeed in a college biology course. Students perform hands-on labs that give them insight into the nature of science and help them understand biological concepts, as well as how evidence can be obtained to support those concepts. Students also complete several virtual lab studies in which they form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions. During both virtual and traditional lab investigations and research opportunities, students summarize their findings and analyze others' findings in summaries, using statistical and mathematical calculations when appropriate. Summative tests are offered at the end of each unit as well as at the end of each semester, and contain objective and constructed response items. Robust scaffolding, rigorous instruction, relevant material and regular active learning opportunities ensure that students can achieve mastery of the skills necessary to excel on the AP exam. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required AP Biology requires a college-level biology textbook. Students may use any college-level biology textbook to successfully complete the course. Resources are provided in the course to support students using either of the following texts: Campbell Biology, 9th ed. Neil A. Campbell and Jane B. Reece et al. (Benjamin Cummings, 2011). ISBN-10: 0321558235 / ISBN-13: 9780321558237. -OR- Principles of Life, 2nd ed. David M. Hillis et al. (W. H. Freeman, 2011). ISBN-10: 1429276487 / ISBN-13: 9781464109478 AP Biology requires the completion of hands-on lab activities and has been approved by the College Board as meeting all requirements for a laboratory science course. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **AP: Chemistry (Credit 1.0)**

- AP Chemistry builds students' understanding of the nature and reactivity of matter. After studying chemical reactions and electrochemistry, students move on to understand how the chemical and physical properties of materials can be explained by the structure and arrangements of the molecules and the forces between those molecules. Students will examine the laws of thermodynamics, molecular collisions, and the reorganization of matter in order to understand how changes in matter take place. Finally, students will explore chemical equilibria, including acid-base equilibria. The equivalent of an introductory college-level chemistry course, AP Chemistry prepares students for the AP exam and for further study in science, health sciences, or engineering. The AP Chemistry course provides a learning experience focused on allowing students to develop their critical thinking skills and cognitive strategies. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students regularly engage with primary source materials, allowing them to practice the critical reading and analysis skills that they will need in order to pass the AP exam and succeed in a college chemistry course. Students perform hands-on labs that give them insight into the nature of science and help them understand chemical concepts, as well as how evidence can be obtained to support those concepts. Students also complete several virtual lab studies in which they form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions. During both virtual and traditional lab investigations and research opportunities, students summarize their findings and analyze others' findings in summaries, using statistical and mathematical calculations when appropriate. Summative tests are offered at the end of each unit as well as at the end of each semester, and contain objective and constructed response items. Robust scaffolding, rigorous instruction, relevant material, and regular active learning opportunities ensure that students can achieve mastery of the skills necessary to excel on the AP exam. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required AP Chemistry requires a college-level chemistry textbook. Students may use any college-level chemistry textbook to successfully complete the course. Resources are provided in the course to support students using either of the following texts: Chemistry, 9th ed. Steven S. Zumdahl and Susan A. Zumdahl. (Cengage Learning, 2013). ISBN-10: 1133611095 / ISBN-13: 9781133611097 Chemistry: The Molecular Nature of Matter, 6th ed. Neil D. Jespersen, James E. Brady and Allison Hyslop. (Wiley, 2011). ISBN-10: 1429276487 / ISBN-13: 9781429276481 AP Chemistry requires the completion of hands-on lab activities and has been approved by the College Board as meeting the requirements for a laboratory science course. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>

- **Chemistry (Credit 1.0)**

- Chemistry offers a curriculum that emphasizes students' understanding of fundamental chemistry concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how chemistry concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply learned concepts and practice their writing skills. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how chemistry concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply concepts learned in the Studies and practice their writing skills. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required Prentice Hall Chemistry Lab Manual, Student ed. Antony Wilbraham, Dennis Staley, Michael Matta, and Edward Waterman (Prentice Hall, 2005). ISBN-10: 0131903594 / ISBN-13: 9780131903593 Semesters 1 and 2: Optional Scientific calculator This course

includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **Chemistry Honors (Credit 1.0)**
  - Chemistry offers a curriculum that emphasizes students' understanding of fundamental chemistry concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how chemistry concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply learned concepts and practice their writing skills. Exploration activities challenge students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required Prentice Hall Chemistry Lab Manual, Student ed. Antony Wilbraham, Dennis Staley, Michael Matta, and Edward Waterman (Prentice Hall, 2005). ISBN-10: 0131903594 / ISBN-13: 9780131903593 Semesters 1 and 2: Optional Scientific calculator This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
  
- **Physics (Credit 1.0)**
  - Physics offers a curriculum that emphasizes students' understanding of fundamental physics concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, math for physics, energy, kinematics, force and motion, momentum, gravitation, chemistry for physics, thermodynamics, electricity, magnetism, waves, nuclear physics, quantum physics, and cosmology. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how physics concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply learned concepts and practice their writing skills. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. Course Materials Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
  
- **Physics Honors (Credit 1.0)**
  - Physics offers a curriculum that emphasizes students' understanding of fundamental physics concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, math for physics, energy, kinematics, force and motion, momentum, gravitation, chemistry for physics, thermodynamics, electricity, magnetism, waves, nuclear physics, quantum physics, and cosmology. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how physics concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities to apply learned concepts and practice their writing skills. Exploration activities challenge students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. Course Materials Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
  
- **Environmental Science (Credit 1.0)**
  - Environmental Science explores the biological, physical, and sociological principles related to the environment in which organisms live on Earth, the biosphere. Course topics include natural systems on Earth, biogeochemical cycles, the nature of matter and energy, the flow of matter and energy through living systems, populations, communities, ecosystems, ecological pyramids, renewable and non-renewable natural resources, land use, biodiversity, pollution, conservation, sustainability, and human impacts on the environment. The course provides students with opportunities to learn and practice scientific skills within the context of relevant scientific questions. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Case studies of current environmental challenges introduce each content lesson and acquaint students with real-life environmental issues, debates, and solutions. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Virtual Lab activities enable students to engage in investigations that require long periods of observation at remote locations and to explore simulations that enable environmental scientists to test predictions. Throughout this course, students are given an opportunity to understand how biology, earth science, and physical science are applied to the study of the environment and how technology and engineering are contributing solutions for studying and creating a sustainable biosphere. The content is specifically aligned to state standards and the NGSS standards for life science, earth science, physical science, and engineering, technology, and society. Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

## Social Studies

- **AP: Macroeconomics (Credit .5)**
  - AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP exam and for further study in business, political science and history. This course has been authorized by the College Board® to use the AP designation. Course Materials Optional Macroeconomics for Today, 7th ed. Irvin B. Tucker (South-Western/Thomson Learning, 2010). ISBN-10: 0538469447 / ISBN-13: 9780538469449 Acceptable alternate: 6th ed. (2008). ISBN-10: 0324591373 Acceptable alternate: 5th ed. (2007). ISBN-10: 0324407998 Acceptable alternate: 4th ed. (2005). ISBN-10: 0324301979
  
- **AP: Microeconomics (Credit .5)**
  - AP Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP exam and for further study in business, history, and political science. This course has been authorized by the College Board® to use the AP designation. Course Materials Optional Microeconomics for Today, 7th ed. Irvin B. Tucker (South-

- **AP: US History (Credit 1.0)**
  - In AP U.S. History, students investigate the development of American economics, politics, and culture through historical analysis grounded in primary sources, research, and writing. The equivalent of an introductory college-level course, AP U.S. History prepares students for the AP exam and for further study in history, political science, economics, sociology, and law. Through the examination of historical themes and the application of historical thinking skills, students learn to connect specific people, places, events, and ideas to the larger trends of U.S. history. Critical-reading activities, feedback-rich instruction, and application-oriented assignments hone students' ability to reason chronologically, to interpret historical sources, and to construct well-supported historical arguments. Students write throughout the course, responding to primary and secondary sources through journal entries, essays, and visual presentations of historical content. In discussion activities, students respond to the positions of others while staking and defending claims of their own. Robust scaffolding, rigorous instruction, relevant material, and regular opportunities for active learning ensure that students can achieve mastery of the skills necessary to excel on the AP exam. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required AP U.S. History requires a college-level U.S. history textbook. Students may use any college-level U.S. history textbook to successfully complete the course. Though students may use any college-level textbook, resources such as page references and scaffolded reading guides are provided in the course to support students who use any of the following texts: America's History, 8th ed. James A. Henretta et al. (Bedford, Freeman, & Worth, 2014). ISBN-10: 1457628937 / ISBN-13: 9781457628931 -OR- American History: Connecting with the Past, 14th AP ed. Alan Brinkley. (McGraw-Hill, 2011) ISBN-10: 0076621421 / ISBN-13: 9780076621422 -OR- America: A Narrative History, 9th ed. George Tindall and David E. Shi (W.W. Norton, 2013) ISBN-10: 0393912620 / ISBN-13: 9780393912623
- **AP: Government and Politics (Credit .5)**
  - Course materials required. See 'Course Materials' below. AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college-level course, AP U.S. Government and Politics prepares students for the AP exam and for further study in political science, law, education, business, and history. This course has been authorized by the College Board® to use the AP designation. Course Materials Required The Lanahan Readings in the American Polity, 5th ed. Ann G. Serow and Everett C. Ladd, eds. (Lanahan Publishing, 2010). ISBN-10: 1930398166 / ISBN-13: 9781930398160 Acceptable alternate: 4th ed. (2003). ISBN-10: 1930398093 Acceptable alternate: 3rd ed. (2003). ISBN-10: 1930398034 American Government: Power and Purpose, 13th ed. Theodore J. Lowi, Benjamin Ginsberg, Kenneth A. Shepsle, and Stephen Ansolabehere (W. W. Norton, 2013). ISBN-10: 0393124134 / ISBN-13: 9780393124134 Acceptable alternate: 12th ed. (2012). ISBN-10: 0393138194
- **US and Global Economics (Credit .5)**
  - Course materials required. See 'Course Materials' below. AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college-level course, AP U.S. Government and Politics prepares students for the AP exam and for further study in political science, law, education, business, and history. This course has been authorized by the College Board® to use the AP designation. Course Materials Required The Lanahan Readings in the American Polity, 5th ed. Ann G. Serow and Everett C. Ladd, eds. (Lanahan Publishing, 2010). ISBN-10: 1930398166 / ISBN-13: 9781930398160 Acceptable alternate: 4th ed. (2003). ISBN-10: 1930398093 Acceptable alternate: 3rd ed. (2003). ISBN-10: 1930398034 American Government: Power and Purpose, 13th ed. Theodore J. Lowi, Benjamin Ginsberg, Kenneth A. Shepsle, and Stephen Ansolabehere (W. W. Norton, 2013). ISBN-10: 0393124134 / ISBN-13: 9780393124134 Acceptable alternate: 12th ed. (2012). ISBN-10: 0393138194
- **World History (Credit 1.0)**
  - In World History, students learn to see the world today as a product of a process that began thousands of years ago when humans became a speaking, travelling, and trading species. Through historical analysis grounded in primary sources, case studies, and research, students investigate the continuity and change of human culture, governments, economic systems, and social structures. Students build and practice historical thinking skills, learning to connect specific people, places, events and ideas to the larger trends of world history. In critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to reason chronologically, interpret and synthesize sources, identify connections between ideas, and develop well-supported historical arguments. Students write throughout the course, responding to primary sources and historical narratives through journal entries, essays and visual presentations of social studies content. In discussion activities, students respond to the position of others while staking and defending their own claim. The course's rigorous instruction is supported with relevant materials and active learning opportunities to ensure students at all levels can master the key historical thinking skills. This course is aligned to state standards and the Common Core State Standards for Literacy in Social Studies.
- **World History Honors (Credit 1.0)**
  - World History is a robust, writing-intensive course that uses multiple perspectives to trace the development of civilizations around the world from prehistory to the present. Students are encouraged to use their knowledge of critical points in history to develop their points of view and apply what they have learned to the promotion of civic action in a rapidly globalizing world. The course explores how human-geographic relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in these civilizations. Students investigate the major religions and belief systems throughout history and learn about the importance of trade and cultural exchange. Other topics include the development of agriculture, the spread of democracy, the rise of nation-states, the industrial era, the spread of imperialism, and the issues and conflicts of the 20th century. World History is designed as the second course in the social studies sequence. Students continue to improve their analytic writing and develop confidence by writing multiple short analytic pieces and longer essays, including document-based questions. Primary documents are embedded in the instruction to encourage students to make frequent connections to evidence from the past. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.
- **US History (Credit 1.0)**
  - U.S. History traces the nation's history from the pre-colonial period to the present. Students learn about the Native American, European, and African people who lived in America before it became the United States. They examine the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system. Students investigate the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in civil war. The course describes the emergence of the United States as an industrial nation and then focuses on its role in modern world affairs. Moving into the 20th and 21st centuries, students probe the economic and diplomatic interactions between the United States and other world players while investigating how the world wars, the Cold War, and the "information revolution" affected the lives of ordinary Americans. Woven through this chronological sequence is a strong focus on the changing conditions of women, African Americans, and other minority groups. The course emphasizes the development of historical analysis skills such as comparing and contrasting, differentiating between facts and interpretations, considering multiple perspectives, and analyzing cause-and-effect relationships. These skills are applied to text interpretation and in written assignments that guide learners step-by-step through problem-solving activities. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.
- **US History Honors (Credit 1.0)**
  - U.S. History traces the nation's history from the pre-colonial period to the present. Students learn about the Native American, European, and African people who lived in America before it became the United States. They examine the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system. Students investigate the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in civil war. The course describes the emergence of the United States as an industrial nation and then focuses on its role in modern world affairs. Moving into the 20th and 21st centuries, students probe the economic and diplomatic interactions between the United States and other world players while investigating how the world wars, the Cold War, and the "information revolution" affected the lives of ordinary Americans. Woven through this chronological sequence is a strong focus

on the changing conditions of women, African Americans, and other minority groups. The course emphasizes the development of historical analysis skills such as comparing and contrasting, differentiating between facts and interpretations, considering multiple perspectives, and analyzing cause-and-effect relationships. These skills are applied to text interpretation and in written assignments that guide learners step-by-step through problem-solving activities. Students perfect their ability to use logic and evidence to create persuasive written arguments in five-paragraph essays and in shorter exercises such as document-based questions and analytic discussions. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

## Foreign Languages

- French 1
- French 2
- Spanish 1
- Spanish 2
- Spanish 3

Rosetta Stone Program may be purchased for other world languages.

# APEX COURSES

## 12<sup>TH</sup> GRADE

### English

- **AP English Language and Composition (Credit 1.0)**
  - In AP English Language and Composition, students investigate rhetoric and its impact on culture through analysis of notable fiction and nonfiction texts, from pamphlets to speeches to personal essays. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in communications, creative writing, journalism, literature, and composition. Students explore a variety of textual forms, styles, and genres. By examining all texts through a rhetorical lens, students become skilled readers and analytical thinkers. Focusing specifically on language, purpose, and audience gives them a broad view of the effect of text and its cultural role. Students write expository and narrative texts to hone the effectiveness of their own use of language, and they develop varied, informed arguments through research. Throughout the course, students are evaluated with assessments specifically designed to prepare them for the content, form, and depth of the AP Exam. AP English Language and Composition is recommended for 11th and 12th grade students. This course fulfills 11th grade requirements. Consequently, we recommend that students take only one of the following courses: English 11, Texas English III, and AP English Language and Composition. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required Into the Wild, Jon Krakauer (Anchor, 1996). ISBN-10: 0385486804 / ISBN-13: 978-0385486804 The Great Gatsby, F. Scott Fitzgerald (Scribner, 2004). ISBN-10: 0743273567 / ISBN-13: 978-0743273565 The Grapes of Wrath, John Steinbeck (Penguin, 2006). ISBN-10: 0143039431 / ISBN-13: 978-0143039433 A Raisin in the Sun, Lorraine Hansberry (Vintage, 2004). ISBN-10: 0679755330 / ISBN-13: 978-0679755333 The Way to Rainy Mountain, N. Scott Momaday (University of New Mexico Press, 1976). ISBN-10: 0826304362 / ISBN-13: 978-0826304360 The Things They Carried, Tim O'Brien (Mariner Books, 2009). ISBN-10: 0618706410 / ISBN-13: 978-0618706419 10: 0547750331 / ISBN-13: 9780547750330. Other editions acceptable.
- **AP English Literature and Composition (Credit 1.0)**
  - AP English Literature and Composition immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in creative writing, communications, journalism, literature, and composition. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required The Norton Anthology of Poetry, 5th ed. Margaret Ferguson, Mary Jo Salter et al, eds. (W.W. Norton, 2005). ISBN-10: 0393979202 / ISBN-13: 9780393979206 Acceptable alternate: 4th ed. (1996). ISBN-10: 0393968200 Short Fiction: An Anthology, 1st ed. (Bedford/St. Martins, 2009). ISBN-10: 0312576374 NOTE: This custom anthology is available only from Apex Learning or MBS Direct. Acceptable alternates: The Story and Its Writer, 7th ed. Ann Charters, ed. (Bedford / St. Martins, 2007). ISBN-10: 0312442718 The Story and Its Writer, 6th ed. Ann Charters, ed. (Bedford / St. Martins, 2002). ISBN-10: 0312397313 The Story and Its Writer, 5th ed. Ann Charters, ed. (Bedford / St. Martins, 1998). ISBN-10: 0312171641 Semester 1: Required Hedda Gabler. Henrik Ibsen (Dover, 1990). ISBN-10: 0486264696 / ISBN-13: 9780486264691 Other editions acceptable A Streetcar Named Desire. Tennessee Williams (Signet, 1947). ISBN-10: 0451167783 / ISBN-13: 9780451167781 Other editions acceptable Their Eyes Were Watching God. Zora Neale Hurston (Harper, 2006). ISBN-10: 0060838671 / ISBN-13: 9780060838676 Other editions acceptable Twelfth Night. William Shakespeare. Barbara A. Mowat and Paul Werstine, eds. (Washington Square Press, 1993). ISBN-10: 0743482778 / ISBN-13: 9780743482776 Other editions acceptable Semester 2: Required The Great Gatsby. F. Scott Fitzgerald (Scribner, 1995). ISBN-10: 0743273567 / ISBN-13: 9780743273565 Other editions acceptable Annie John. Jamaica Kincaid (Farrar, Straus and Giroux, 1985). ISBN-10: 0374525102 / ISBN-13: 9780374525101 Other editions acceptable Jane Eyre. Charlotte Bronte. Michael Mason, ed. (Penguin, 2006). ISBN-10: 0141441143 / ISBN-13: 9780144144146 Other editions acceptable
- **English 12 (Credit 1.0)**
  - The English 12 course asks students to closely analyze British literature and world literature and consider how we humans define and interact with the unknown, the monstrous, and the heroic. In the epic poems The Odyssey, Beowulf, and The Inferno, in Shakespeare's Tempest, in the satire of Swift, and in the rhetoric of World War II, students examine how the ideas of "heroic" and "monstrous" have been defined across cultures and time periods and how the treatment of the "other" can make monsters or heroes of us all. Reading Frankenstein and works from those who experienced the imperialism of the British Empire, students explore the notion of inner monstrosity and consider how the dominant culture can be seen as monstrous in its ostensibly heroic goal of enlightening the world. Throughout this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and give speeches. Overall, students gain an understanding of the way British and world literature represent the array of voices that contribute to our global identity. Course Materials Semester 1: Optional Robinson Crusoe. Daniel Defoe. (Penguin Random House LLC, 2008). ISBN-10: 0-451-53077-2 / ISBN-13: 978-0-451-53077-6. Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended. The Tempest. William Shakespeare. (Simon & Schuster, 2004). ISBN-10: 0156027321 / ISBN-13: 9780743482837. Other editions acceptable. NOTE: This book is provided in digital format in the course. If student wish to read offline, the above purchase is recommended. Semester 2: Optional Frankenstein. Mary Shelley. (Dover Publications, 1994). ISBN-10: 0486282112 / ISBN-13: 9780486282114. Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended.
- **English 12 Honors (Credit 1.0)**
  - The English 12 Honors course asks students to closely analyze British literature and world literature and consider how we humans define and interact with the unknown, the monstrous, and the heroic. In the epic poems The Odyssey, Beowulf, and The Inferno, in Shakespeare's Tempest, in the satire of Swift, and in the rhetoric of World War II, students examine how the ideas of "heroic" and "monstrous" have been defined across cultures and time periods and how the treatment of the "other" can make monsters or heroes of us all. Reading Frankenstein and works from those who experienced the imperialism of the British Empire, students explore the notion of inner monstrosity and consider how the dominant culture can be seen as monstrous in its ostensibly heroic goal of enlightening the world. Throughout this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and give speeches. Overall, students gain an understanding of the way British and world literature represent the array of voices that contribute to our global identity. Course Materials Semester 1: Optional Robinson Crusoe. Daniel Defoe. (Barnes & Nobel Classics, 2005). ISBN-10: 1593083602 / ISBN-13: 9781593083601. Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is

recommended. *The Tempest*. William Shakespeare. (Simon & Schuster, 2004). ISBN-10: 0156027321 / ISBN-13: 9780743482837. Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended. Semester 2: Required Life of Pi. Yann Martel. (Mariner Books, 2003). ISBN-10: 0156027321 / ISBN-13: 9780156027328. Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended. Semester 2: Optional Frankenstein. Mary Shelley. (Dover Publications, 1994). ISBN-10: 0486282112 / ISBN-13: 9780486282114. Other editions acceptable. NOTE: This book is provided in digital format in the course. If students wish to read offline, the above purchase is recommended.

## Fine Arts

- **Art Appreciation (Credit .5)**
  - Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas. Coverage of each artistic movement highlights historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. Art Appreciation is based on national standards developed by the Consortium of National Arts Education Associations, as well as key state standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.
- **Music Appreciation (Credit .5)**
  - Music Appreciation is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms, classical music, and American jazz. The second semester presents the rich modern traditions, including: gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet is bringing musical forms together in new ways from all around the world.

## Mathematics

- **AP Calculus (Credit 1.0)**
  - In AP Calculus AB, students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Instead of simply getting the right answer, students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. The equivalent of an introductory college-level calculus course, AP Calculus AB prepares students for the AP exam and further studies in science, engineering, and mathematics. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required TI-84 Plus, TI-83, or TI-83 Plus Calculator Read "Getting Started" and chapter 1 in the TI Guidebook before the course starts. Semesters 1 and 2: Optional Calculus: Single Variable, 8th ed., James Stewart (Brooks/Cole, 2016). ISBN-10: 1305266633 / ISBN-13: 9781305266636 Acceptable alternate: 7th ed. (2012). ISBN-10: 0538497831 Acceptable alternate: 6th ed. (2008). ISBN-10: 0495011614 Acceptable alternate: 5th ed. (2003). ISBN-10: 0534393667 Acceptable alternate: 4th ed. (1999). ISBN-10: 0534355625 Calculus of a Single Variable, 2nd ed. Jeffery A Cole, Michael Olinick, Dennis Pence, and Earl W. Swokowski (PWS, 1994). ISBN-10: 0534939244 This book is out of print but you may find it used. It is interchangeable with the Stewart text listed above. *Cracking the AP Calculus AB & BC Exams*, 2014 ed. David S. Kahn (Princeton Review, 2012). ISBN-10: 0307946185 / ISBN-13: 9780307946188 Acceptable alternate: 2012 ed. ISBN-10: 0307944867 Acceptable alternate: 2009 ed. ISBN-10: 0375428852 Acceptable alternate: 2008 ed. ISBN-10: 0375766413 Acceptable alternate: 2006-2007 ed. ISBN-10: 0534355625
- **AP Statistics (Credit 1.0)**
  - AP Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results of a poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real-world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP exam and for further study in science, sociology, medicine, engineering, political science, geography, and business. This course has been authorized by the College Board to use the AP designation. Course Materials Semesters 1 and 2: Required TI-89, TI-84 Plus, TI-83, or TI-83 Plus Calculator Read "Getting Started" and chapter 1 in the TI Guidebook before the course starts. Semesters 1 and 2: Optional Barron's AP Statistics, 8th ed. Martin Sternstein (Barron's, 2015). ISBN-10: 1438004982 / ISBN-13: 9781438004983 Acceptable alternate: 7th ed. (2013). 1438002025 / ISBN-13: 9781438002026 Acceptable alternate: 6th ed. (2012). ISBN-10: 0764147021 Acceptable alternate: 5th ed. (2010). ISBN-10: 0764140892 Acceptable alternate: 4th ed. (2008). ISBN-10: 0764136836 Introduction to Probability & Statistics, 14th ed. William Mendenhall, Robert J. Beaver, and Barbara M. Beaver (Brooks/Cole, 2015). ISBN-10: 1133103758 / ISBN-13: 9781133103752 Acceptable alternate: 13th ed. (2009). ISBN-10: 0495389536 Acceptable alternate: 12th ed. (2006). ISBN-10: 0534418708 Acceptable alternate: 11th ed. (2003). ISBN-10: 0534395198
- **Algebra 2 (Credit 1.0)**
  - Algebra II introduces students to advanced functions, with a focus on developing a strong conceptual grasp of the expressions that define them. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include quadratic equations; polynomial functions; rational expressions and equations; radical expressions and equations; exponential and logarithmic functions; trigonometric identities and functions; modeling with functions; probability and inferential statistics; probability distributions; and sample distributions and confidence intervals. This course supports all students as they develop computational fluency and deepen conceptual understanding. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them.
- **Algebra 2 Honors (Credit 1.0)**
  - Algebra II is a comprehensive course that builds on the concepts covered in Algebra I and prepares students for advanced-level courses. Through a "Discovery-Confirmation-Practice"-based exploration of intermediate algebra concepts, students are challenged to work toward a mastery of computational skills, to deepen their understanding of key ideas and solution strategies, and to extend their knowledge in a variety of problem-solving applications. Course topics include conic sections; functions, relations, and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students also cover topics relating to rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis and probability. Within each Algebra II lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills in a low-stakes, 10-question problem set before moving on to a formal assessment. Additionally, many Algebra II lessons include interactive-tool-based exercises and math explorations to further connect lesson concepts to a variety of real-world contexts. The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.
- **Pre-calculus (Credit 1.0)**
  - Precalculus is a course that combines reviews of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. The first semester includes linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections. The second semester

covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. Within each Precalculus lesson, students are supplied with a post-study "Checkup" activity, providing them the opportunity to hone their computational skills by working through a low-stakes problem set before moving on to a formal assessment. Unit-level Precalculus assessments include a computer-scored test and a scaffolded, teacher-scored test. The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned to state standards. Course Materials Semesters 1 and 2: Required TI-84 Plus, TI-83, or TI-83 Plus Calculator Read the "Graphing Calculators" section in the course Appendix A: Student Resources and chapter 1 in the TI Guidebook before the course starts.

- **Pre-calculus Honors (Credit 1.0)**

- Precalculus is a comprehensive course that weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. The first semester includes linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. Within each Precalculus lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills in a low-stakes problem set before moving on to formal assessment. Additionally, connections are made throughout the Precalculus course to calculus, art, history, and a variety of other fields related to mathematics. The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards. Course Materials Semesters 1 and 2: Required TI-84 Plus, TI-83, or TI-83 Plus Calculator Read the "Graphing Calculators" section in the course Appendix A: Student Resources and chapter 1 in the TI Guidebook before the course starts.

## Health

- **Health (Credit .5)**

- Health is a valuable, skills-based health education course designed for general education in grades 9 through 12. Health helps students develop knowledge, attitudes, and essential skills in a variety of health-related subjects, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Through use of accessible information, realistic interactivities, and project-based learning, students apply the skills they need to stay healthy. These skills include identifying and accessing valid health information, practicing self-management, identifying internal and external influences, communicating effectively, making healthy decisions, setting goals, and advocating. Students who complete Health build the skills they need to protect, enhance, and promote their own health and the health of others. The content is based on the National Health Standards (SHAPE) and is aligned to state standards.

- **Health Opportunities through Physical Education (Credit .5)**

- Health Opportunities through Physical Education (HOPE) combines instruction in health and physical education in a full-year, integrated course. It focuses on developing skills, habits and attitudes to maintain a healthy lifestyle and applying lessons learned to physical fitness. Through active participation and real-world simulations, the course aims to demonstrate firsthand the value of conscientious lifestyle management. HOPE lays a foundation for making healthy decisions by building seven skills: accessing valid health information; analyzing internal and external influences; self-management; interpersonal communication; decision-making; goal setting; and advocacy. Students apply these skills to a variety of topics throughout the course, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities on weekly participation reports to verify the student is meeting his or her requirements and responsibilities. This course is based on and aligns to the National Health Standards (SHAPE) and the Florida Next Generation Sunshine State Standards for health and physical education.

## Science

- **AP: Biology (Credit 1.0)**

- AP Biology builds students' understanding of biology on both the micro and macro scales. After studying cell biology, students move on to understand how evolution drives the diversity and unity of life. Students will examine how living systems store, retrieve, transmit, and respond to information and how organisms utilize free energy. The equivalent of an introductory college-level biology course, AP Biology prepares students for the AP exam and for further study in science, health sciences, or engineering. The AP Biology course provides a learning experience focused on allowing students to develop their critical thinking skills and cognitive strategies. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students regularly engage with primary sources, allowing them to practice the critical reading and analysis skills that they will need in order to pass the AP exam and succeed in a college biology course. Students perform hands-on labs that give them insight into the nature of science and help them understand biological concepts, as well as how evidence can be obtained to support those concepts. Students also complete several virtual lab studies in which they form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions. During both virtual and traditional lab investigations and research opportunities, students summarize their findings and analyze others' findings in summaries, using statistical and mathematical calculations when appropriate. Summative tests are offered at the end of each unit as well as at the end of each semester, and contain objective and constructed response items. Robust scaffolding, rigorous instruction, relevant material and regular active learning opportunities ensure that students can achieve mastery of the skills necessary to excel on the AP exam. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required AP Biology requires a college-level biology textbook. Students may use any college-level biology textbook to successfully complete the course. Resources are provided in the course to support students using either of the following texts: Campbell Biology, 9th ed. Neil A. Campbell and Jane B. Reece et al. (Benjamin Cummings, 2011). ISBN-10: 0321558235 / ISBN-13: 9780321558237. -OR- Principles of Life, 2nd ed. David M. Hillis et al. (W. H. Freeman, 2011). ISBN-10: 1429276487 / ISBN-13: 9781464109478 AP Biology requires the completion of hands-on lab activities and has been approved by the College Board as meeting all requirements for a laboratory science course. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **AP: Chemistry (Credit 1.0)**

- AP Chemistry builds students' understanding of the nature and reactivity of matter. After studying chemical reactions and electrochemistry, students move on to understand how the chemical and physical properties of materials can be explained by the structure and arrangements of the molecules and the forces between those molecules. Students will examine the laws of thermodynamics, molecular collisions, and the reorganization of matter in order to understand how changes in matter take place. Finally, students will explore chemical equilibria, including acid-base equilibria. The equivalent of an introductory college-level chemistry course, AP Chemistry prepares students for the AP exam and for further study in science, health sciences, or engineering. The AP Chemistry course provides a learning experience focused on allowing students to develop their critical thinking skills and cognitive strategies. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students regularly engage with primary source materials, allowing them to practice the critical reading and analysis skills that they will need in order to pass the AP exam and succeed in a college chemistry course. Students perform hands-on labs that give them insight into the nature of science and help them understand chemical concepts, as well as how evidence can be obtained to support those concepts. Students also complete several virtual lab studies in which they form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions. During both virtual and traditional lab investigations and research opportunities, students summarize their findings and analyze others' findings in summaries, using statistical and mathematical calculations when appropriate. Summative tests are offered at the end of each unit as well as at the end of each semester, and contain objective and constructed response items. Robust scaffolding, rigorous instruction, relevant material, and regular active learning opportunities ensure that students can achieve mastery of the skills necessary to excel on the AP exam. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required AP Chemistry requires a college-level chemistry textbook. Students may use any college-level chemistry textbook to successfully complete the course. Resources are provided in the course to support students using either of the following texts: Chemistry, 9th ed. Steven S. Zumdahl and Susan A. Zumdahl. (Cengage Learning, 2013). ISBN-10: 1133611095 / ISBN-13:

9781133611097 Chemistry: The Molecular Nature of Matter, 6th ed. Neil D. Jespersen, James E. Brady and Allison Hyslop. (Wiley, 2011). ISBN-10: 1429276487 / ISBN-13: 9781429276481 AP Chemistry requires the completion of hands-on lab activities and has been approved by the College Board as meeting the requirements for a laboratory science course. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

- **Physics (Credit 1.0)**
  - Physics offers a curriculum that emphasizes students' understanding of fundamental physics concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, math for physics, energy, kinematics, force and motion, momentum, gravitation, chemistry for physics, thermodynamics, electricity, magnetism, waves, nuclear physics, quantum physics, and cosmology. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how physics concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply learned concepts and practice their writing skills. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. Course Materials Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Physics Honors (Credit 1.0)**
  - Physics offers a curriculum that emphasizes students' understanding of fundamental physics concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, math for physics, energy, kinematics, force and motion, momentum, gravitation, chemistry for physics, thermodynamics, electricity, magnetism, waves, nuclear physics, quantum physics, and cosmology. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Throughout this course, students are given an opportunity to understand how physics concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities to apply learned concepts and practice their writing skills. Exploration activities challenge students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards. Course Materials Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.
- **Environmental Science (Credit 1.0)**
  - Environmental Science explores the biological, physical, and sociological principles related to the environment in which organisms live on Earth, the biosphere. Course topics include natural systems on Earth, biogeochemical cycles, the nature of matter and energy, the flow of matter and energy through living systems, populations, communities, ecosystems, ecological pyramids, renewable and non-renewable natural resources, land use, biodiversity, pollution, conservation, sustainability, and human impacts on the environment. The course provides students with opportunities to learn and practice scientific skills within the context of relevant scientific questions. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Case studies of current environmental challenges introduce each content lesson and acquaint students with real-life environmental issues, debates, and solutions. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Virtual Lab activities enable students to engage in investigations that require long periods of observation at remote locations and to explore simulations that enable environmental scientists to test predictions. Throughout this course, students are given an opportunity to understand how biology, earth science, and physical science are applied to the study of the environment and how technology and engineering are contributing solutions for studying and creating a sustainable biosphere. The content is specifically aligned to state standards and the NGSS standards for life science, earth science, physical science, and engineering, technology, and society. Semesters 1 and 2: Optional This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials. Hands-on labs require specified materials. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

## Social Studies

- **AP: Macroeconomics (Credit .5)**
  - AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP exam and for further study in business, political science and history. This course has been authorized by the College Board® to use the AP designation. Course Materials Optional Macroeconomics for Today, 7th ed. Irvin B. Tucker (South-Western/Thomson Learning, 2010). ISBN-10: 0538469447 / ISBN-13: 9780538469449 Acceptable alternate: 6th ed. (2008). ISBN-10: 0324591373 Acceptable alternate: 5th ed. (2007). ISBN-10: 0324407998 Acceptable alternate: 4th ed. (2005). ISBN-10: 0324301979
- **AP: Microeconomics (Credit .5)**
  - AP Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP exam and for further study in business, history, and political science. This course has been authorized by the College Board® to use the AP designation. Course Materials Optional Microeconomics for Today, 7th ed. Irvin B. Tucker (South-Western/Thomson Learning, 2010). ISBN-10: 0538469412 / ISBN-13: 9780538469418 Acceptable alternate: 6th ed. (2008). ISBN-10: 0324591381 Acceptable alternate: 5th ed. (2007). ISBN-10: 0324408005 Acceptable alternate: 4th ed. (2005). ISBN-10: 0324301928
- **AP: US History (Credit 1.0)**
  - In AP U.S. History, students investigate the development of American economics, politics, and culture through historical analysis grounded in primary sources, research, and writing. The equivalent of an introductory college-level course, AP U.S. History prepares students for the AP exam and for further study in history, political science, economics, sociology, and law. Through the examination of historical themes and the application of historical thinking skills, students learn to connect specific people, places, events, and ideas to the larger trends of U.S. history. Critical-reading activities, feedback-rich instruction, and application-oriented assignments hone students' ability to reason chronologically, to interpret historical sources, and to construct well-supported historical arguments. Students write throughout the course, responding to primary and secondary sources through journal entries, essays, and visual presentations of historical content. In discussion activities, students respond to the positions of others while staking and defending claims of their own. Robust scaffolding, rigorous instruction, relevant material, and regular opportunities for active learning ensure that students can achieve mastery of the skills necessary to excel on the AP exam. This course has been authorized by the College Board® to use the AP designation. Course Materials Semesters 1 and 2: Required AP U.S. History requires a college-level U.S. history textbook. Students may use any college-level U.S. history textbook to successfully complete the course. Though students may use any college-level textbook, resources such as page references and scaffolded reading guides are provided in the course to support students who use any of the following texts: America's History, 8th ed. James A. Henretta et al. (Bedford, Freeman, & Worth, 2014). ISBN-10: 1457628937 / ISBN-13: 9781457628931 -OR- American History: Connecting with the Past, 14th AP ed. Alan Brinkley. (McGraw-Hill, 2011) ISBN-10: 0076621421 / ISBN-

13: 9780076621422 -OR- America: A Narrative History, 9th ed. George Tindall and David E. Shi (W.W. Norton, 2013) ISBN-10: 0393912620 / ISBN-13: 9780393912623

- **AP: Government and Politics (Credit .5)**

- Course materials required. See 'Course Materials' below. AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college-level course, AP U.S. Government and Politics prepares students for the AP exam and for further study in political science, law, education, business, and history. This course has been authorized by the College Board® to use the AP designation. Course Materials Required The Lanahan Readings in the American Polity, 5th ed. Ann G. Serow and Everett C. Ladd, eds. (Lanahan Publishing, 2010). ISBN-10: 1930398166 / ISBN-13: 9781930398160 Acceptable alternate: 4th ed. (2003). ISBN-10: 1930398093 Acceptable alternate: 3rd ed. (2003). ISBN-10: 1930398034 American Government: Power and Purpose, 13th ed. Theodore J. Lowi, Benjamin Ginsberg, Kenneth A. Shepsle, and Stephen Ansolabehere (W. W. Norton, 2013). ISBN-10: 0393124134 / ISBN-13: 9780393124134 Acceptable alternate: 12th ed. (2012). ISBN-10: 0393138194

- **US and Global Economics (Credit .5)**

- Course materials required. See 'Course Materials' below. AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college-level course, AP U.S. Government and Politics prepares students for the AP exam and for further study in political science, law, education, business, and history. This course has been authorized by the College Board® to use the AP designation. Course Materials Required The Lanahan Readings in the American Polity, 5th ed. Ann G. Serow and Everett C. Ladd, eds. (Lanahan Publishing, 2010). ISBN-10: 1930398166 / ISBN-13: 9781930398160 Acceptable alternate: 4th ed. (2003). ISBN-10: 1930398093 Acceptable alternate: 3rd ed. (2003). ISBN-10: 1930398034 American Government: Power and Purpose, 13th ed. Theodore J. Lowi, Benjamin Ginsberg, Kenneth A. Shepsle, and Stephen Ansolabehere (W. W. Norton, 2013). ISBN-10: 0393124134 / ISBN-13: 9780393124134 Acceptable alternate: 12th ed. (2012). ISBN-10: 0393138194

### Foreign Languages

- French 1
- French 2
- Spanish 1
- Spanish 2
- Spanish 3

Rosetta Stone Program may be purchased for other world languages

# APEX ELECTIVES

All courses are .5 credit

## Electives

- AP: Psychology
- Core: College and Career Preparation I
- Core: College and Career Preparation II
- Core: Creative Writing
- Core: Financial Literacy
- Core: Liberal Arts Math
- Core: Liberal Arts Mathematics 1 Semester 1
- Core: Liberal Arts Mathematics 1 Semester 2
- Core: Liberal Arts Mathematics 2
- Core: Liberal Arts Mathematics 2 Semester 1
- Core: Liberal Arts Mathematics 2 Semester 2
- Core: Mathematics of Personal Finance
- Core: Mathematics of Personal Finance Semester 1
- Core: Mathematics of Personal Finance Semester 2
- Core: Media Literacy
- Core: Multicultural Studies
- Core: Probability & Statistics
- Core: Psychology
- Core: Reading Skills & Strategies
- Core: Sociology
- Core: Writing Skills and Strategies

# APEX Career & Technical Education (CTE)

- Core: Business Applications (.5 credit)
- Core: Information Technology Applications (.5 credit)
- Core: Intermediate Business and Marketing (.5 credit)
- Core: Intermediate Health Science (.5 credit)
- Core: Introduction to Business and Marketing (.5 credit)
- Core: Introduction To Health Science (.5 credit)
- Core: Principles of Business, Marketing, and Finance (1.0 credit)
- Core: Principles of Health Science (1.0 credit)
- Core: Principles of Information Technology (1.0 credit)