



## Pennsylvania EdOptions Academy Courses

### Math

#### AP® Calculus A/B

AP® Calculus grounds the study of calculus in real-world scenarios and integrates it with the four STEM disciplines. The first semester covers functions, limits, derivatives and the application of derivatives. The course goes on to cover differentiation and antidifferentiation, applications of integration, inverse functions, and techniques of integration.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

#### AP® Statistics (Apex)

AP® Statistics is a two-semester course that 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, or business.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse, this product.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

#### Algebra 1 A/B

Algebra 1 v7.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. The specific standard alignment for each lesson is visible to both educators and students. In addition to the emphasis on alignment, the lessons in the new course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for students.

Practice questions are included with each lesson, including technology-enhanced items and explanations to assist students in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help students record key takeaways as they move through the tutorial.

The course is also built around student engagement, with more interactive lessons and videos that work through examples and model problem-solving skills. This fresh new look and feel for the course was inspired by educator feedback.

Educators were also involved in the course at the design-level, as many unit activities, worksheets, and video scripts were written by current algebra classroom teachers. Algebra 1 v7.0 reflects our commitment to standards alignment and putting the needs of educators and students first in all aspects of course design.

#### Algebra 1 A/B Honors

Algebra 1 v7.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. The specific standard alignment for each lesson is visible to both educators and students. In



In addition to the emphasis on alignment, the lessons in the new course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for students. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist students in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help students record key takeaways as they move through the tutorial. The course is also built around student engagement, with more interactive lessons and videos that work through examples and model problem-solving skills. This fresh new look and feel for the course was inspired by educator feedback. Educators were also involved in the course at the design-level, as many unit activities, worksheets, and video scripts were written by current algebra classroom teachers. Algebra 1 v7.0 reflects our commitment to standards alignment and putting the needs of educators and students first in all aspects of course design.

### **Algebra 2 A/B**

Algebra 2 v7.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Algebra 2 v7.0 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Algebra 2 A/B Honors**

Algebra 2 v7.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Algebra 2 v7.0 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Algebra I (Apex)**

Algebra I builds students' command of linear, quadratic, and exponential relationships. 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 problem solving with basic equations and formulas; an introduction to functions and problem solving; linear equations and systems of linear equations; exponents and exponential functions; sequences and functions; descriptive statistics; polynomials and factoring; quadratic equations and functions; and function transformations and inverses. This course supports students as they develop computational fluency, deepen conceptual understanding, and apply mathematical knowledge. Students discover new concepts through guided instruction and confirm their understanding in an interactive, feedback-rich environment.

A range of activities allow students to think mathematically in a variety of scenarios and tasks. In discussion activities, students exchange and explain their mathematical ideas. Modeling activities ask them to analyze real-world scenarios and mathematical concepts. Journaling activities have students reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. And in performance tasks, students synthesize their knowledge in novel, real-world scenarios, make sense of multifaceted problems, and persevere in solving them. This course is built to state standards. Throughout the course, students are evaluated by a variety of assessments designed to prepare them for the content, form, and depth of state exams.

There are no required or optional materials.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Algebra II (Apex)**

Algebra II introduces students to advanced functions, with a focus on developing a strong conceptual grasp of the expressions that define those functions. 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 and functions; polynomial functions; rational expressions and functions; radical expressions and functions; exponential and logarithmic functions; trigonometric functions; modeling with functions; probability and inferential statistics; probability distributions; and sampling 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, 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.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Calculus A/B**

Calculus is the mathematics of change. It is used to solve complex problems that are continuously evolving and would otherwise be unsolvable with only algebra and geometry. This online advanced placement course is designed to prepare students to become deep mathematical thinkers. They will explore the calculus concepts of limits, differentiation, and integration and apply those concepts in meaningful ways.



The course is split into two semesters. The first semester focuses on the concepts of functions, limits, and differentiation and their applications. The second semester builds off the first semester to focus on integrations. It will cover topics such as the definite and indefinite integral and their applications, inverse function, and techniques for integrating. (Credit Recovery versions available)

### **Calvert Grade 1 Math**

Students will extend their knowledge of addition and subtraction to two-digit numbers. They will also explore measurement, charts, graphs, time, money, and solid shapes. Students will demonstrate concepts learned through fun, project-based activities such as creating a 3D cake design. Course content subject to change.

### **Calvert Grade 2 Math**

In Math 2, students will continue developing a strong number sense as well as mental math and problem-solving skills using research-based methods. Students will also focus on three-digit numbers, addition and subtraction to 1000, data collection, money, time, and shapes. Engaging, project-based units promote critical-thinking skills and include activities such as designing a sneaker and organizing a fundraising event.

### **Calvert Grade 3 Math**

In Math 3, students will focus on developing understanding of multiplication and division and strategies for multiplication and division within 100; developing their understanding of fractions, especially unit fractions; learning about the structure of rectangular arrays and of area; and describing and analyzing two-dimensional shapes. Lessons employ digital resources that engage students and promote active learning, such as a digital place-value chart used with base-10 blocks to model addition and subtraction and a virtual beam balance to practice mental math and estimation.

### **Calvert Grade 4 Math**

Math 4 dives deeper into addition, subtraction, multiplication, and division of whole numbers; fractions; data and graphing; measuring angles and symmetry; and calculating perimeter and area of squares and rectangles. In this project-based course, students will have the opportunity apply the skills they have learned in activities such as building a travel itinerary, preparing a budget for a trip, and using geometry to design a dream neighborhood.

### **Calvert Grade 5 Math**

Math provides additional experience with basic mathematical operations. Students are introduced to multiplying two-digit numbers by two-digit numbers; practicing long division with and without remainders; adding, subtracting, and multiplying unlike fractions and mixed numbers; and working with decimals. Students will also practice graphing on a coordinate plane and calculating the volume of solid figures. Project-based units facilitate real-world connections and bring context to the skills and concepts students are learning.

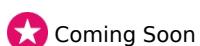
### **Calvert Kindergarten Math**

Kindergarten Math focuses on the basics of counting to 100, simple addition, subtraction, measuring, and shapes. Students will engage in projects that utilize learning in useful ways, such as creating a number book and measuring and weighing an item to ship to a family in need. Students will practice skills in both offline and engaging online activities and in game-based practice.

### **Consumer Mathematics**

This course explains how four basic mathematical operations – addition, subtraction, multiplication, and division – can be used to solve real-life problems. It addresses practical applications for math, such as wages, taxes, money management, and interest and credit. Projects for the Real World activities are included that promote cross-curricular learning and higher-order thinking and problem-solving skills.

### **Financial Mathematics A/B**



Coming Soon



College Board® Advanced Placement® Approval



National Collegiate Athletic Association (NCAA)





Financial Algebra is designed to instruct students in algebraic thinking while also preparing them to navigate a number of financial applications. Students will explore how algebraic knowledge is connected to many financial situations, including investing, using credit, paying taxes, and shopping for insurance. In studying these topics, students will learn about the linear, exponential, and quadratic relationships that apply to financial applications. In addition, the course will help prepare students to tackle the wide variety of financial decisions they will face in life, from setting up their first budget to planning for retirement.

### **Fundamental Math (Apex)**

Fundamental Math explores foundational concepts in math. Students master basic skills and extend their knowledge as they prepare for more advanced work. Topics include basic number concepts such as whole numbers, counting, place value, rounding, exponents, and negative numbers; addition and subtraction; and multiplication and division. The course also covers fractions, operations with fractions, decimals, percents, ratios, problem solving, basic concepts in geometry, and measuring shapes.

This course is built to National Council of Teachers of Mathematics (NCTM) standards and is aligned to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Geometry (Apex)**

Geometry builds upon students' command of geometric relationships and formulating mathematical arguments. 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 reasoning, proofs, and the creation of sound mathematical arguments; points, lines, and angles; triangles and trigonometry; quadrilaterals and other polygons; circles; congruence, similarity, transformations, and constructions; coordinate geometry; three-dimensional solids; and applications of probability.

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.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Geometry A/B**

Geometry v6.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering a focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforced connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well



as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Geometry v6.0 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Geometry A/B Honors**

Geometry v6.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering a focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforced connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Geometry v6.0 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Introductory Algebra (Apex)**

Introductory Algebra provides a curriculum focused on foundational concepts that prepare students for success in Algebra I. Through a "Discovery-Confirmation-Practice"-based exploration of basic 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 through a variety of problem-solving applications.

Course topics include integers; the language of algebra; solving equations with addition, subtraction, multiplication, and division; fractions and decimals; measurement; exponents; solving equations with roots and powers; multi-step equations; and linear equations.

Within each lesson, students are supplied with a scaffolded note-taking guide, called a study sheet, as well as a post-study checkup activity that provides them the opportunity to hone their computational skills by working through a low-stakes, 10-question problem set before starting formal assessment. Unit-level assessments include a computer-scored test and a scaffolded, teacher-scored test.

This course is built to state standards and informed by the National Council of Teachers of Mathematics (NCTM). *This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Math 6 (Apex)**

Math 6 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Course topics include ratios and rates, fraction and decimal operations, and signed numbers. Students continue to build their algebra skills by plotting points in all four quadrants of the coordinate plane and solving equations and inequalities. Geometry topics include area, surface area, and volume, and statistical work features measures of center and variability, box plots, dot plots, and histograms.

The two-semester course is arranged in themed units, each with three to five lessons. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment



as they progress through content aligned to the Common Core State Standards and demonstrate their learning through computer- and teacher-scored assignments. By constantly honing the ability to apply their knowledge in abstract and real-world scenarios, students build the depth of knowledge and higher-order skills required to demonstrate their mastery when put to the test.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Math 7 (Apex)**

Math 7 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Throughout the course, students gain a deep understanding of proportions and their use in solving problems. They extend their fluency with operations on rational numbers and translate among different forms of rational numbers. Algebra topics include simplifying and rewriting algebraic expressions and solving more complex equations and inequalities. Students also sketch geometric figures and explore scale drawings, investigate circle properties and angle relationships, and deepen their understanding of area, volume, and surface area. They see how statistics uses sample data to make predictions about populations and compare data from different data sets. Students gain a fundamental understanding of probability and explore different ways to find or estimate probabilities.

The two-semester course is arranged in themed units, each with three to five lessons. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Common Core State Standards and demonstrate their learning through computer- and teacher-scored assignments. By constantly honing the ability to apply their knowledge in abstract and real-world scenarios, students build the depth of knowledge and higher-order skills required to demonstrate their mastery when put to the test.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Math 8 (Apex)**

Math 8 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. In this course, students focus on understanding functions — what they are, how to represent them in different ways, and how to write them to model mathematical and real-world situations. In particular, students investigate linear functions by learning about slope and slope-intercept form. Students' understanding of linear functions is extended to statistics, where they make scatter plots and use linear functions to model data. They solve linear equations and equations involving roots and explore systems of linear equations. Additional topics include exponents, powers of ten, scientific notation, and irrational numbers. Students learn about transformations and extend that understanding to an investigation of congruence and similarity. Other geometric concepts explored include the Pythagorean theorem, angle relationships, and volumes of cylinders, cones, and spheres.

The two-semester course is arranged in themed units, each with three to five lessons. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Common Core State Standards and demonstrate their learning through computer- and teacher-scored assignments. By constantly honing the ability to apply their knowledge in abstract and real-world scenarios, students build the depth of knowledge and higher-order skills required to demonstrate their mastery when put to the test.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Mathematics 1 A/B**

Mathematics I is a completely re-designed course that offers 100% alignment to the integrated pathway in the Common Core State Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in



the course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Mathematics I reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Mathematics 2 A/B**

Mathematics II is a completely re-designed course that offers alignment to the integrated pathway in the Common Core State Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Mathematics II reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Mathematics 3 A/B**

Mathematics III is a completely re-designed course that offers 100% alignment to the integrated pathway in the Common Core State Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Mathematics III reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Mathematics I (Apex)**

Mathematics I builds students' command of geometric knowledge and linear and exponential relationships. 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 relationships between quantities; linear and exponential relationships; reasoning with equations; descriptive statistics; congruence, proofs, and constructions; and connecting algebra and geometry through coordinates.

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.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Mathematics II (Apex)**

Mathematics II extends students' geometric knowledge and introduces them to quadratic expressions, equations, and functions, exploring the relationships among these and their linear and exponential counterparts. 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 extending the number system; quadratic functions and modeling; expressions and equations; applications of probability; similarity, right-triangle trigonometry, and proofs; and circles with and without coordinates.

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.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Mathematics III (Apex)**

Mathematics III incorporates advanced functions, trigonometry, and probability and statistics as students synthesize their prior knowledge and solve increasingly challenging problems. 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 formulating inferences and conclusions from data; polynomial, rational, and radical relationships; trigonometry of general triangles and trigonometric functions; and mathematical modeling. This course supports all students as they simultaneously develop computational fluency, deepen conceptual understanding, and apply mathematical practice skills. 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. Throughout the course, students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of state assessments.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Mathematics of Personal Finance (Apex)**

Mathematics of Personal Finance focuses on real-world financial literacy, personal finance, and business subjects. Students apply what they learned in Algebra I and Geometry to topics including personal income, taxes, checking and savings accounts, credit, loans and payments, car leasing and purchasing, home mortgages, stocks, insurance, and retirement planning.

Students then extend their investigations using more advanced mathematics, such as systems of equations (when studying cost and profit issues) and exponential functions (when calculating interest problems). To assist students for whom language presents a barrier to learning or who are not reading at grade level, Mathematics of Personal Finance includes audio resources in both Spanish and English.

This course is built to state standards as they apply to mathematics of personal finance and adheres to the National Council of Teachers of Mathematics' (NCTM) problem solving, communication, reasoning, and mathematical connections process standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Pennsylvania Algebra I A/B**

Pennsylvania Algebra I A/B is a completely re-designed course that offers 100% alignment to the PA Academic Standards for Mathematics. The specific standard alignment for each lesson is visible to both educators and students. In addition to the emphasis on alignment, the lessons in the new course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for students. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist students in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help students record key takeaways as they move through the tutorial. The course is also built around student engagement, with more interactive lessons and videos that work through examples and model problem-solving skills. This fresh new look and feel for the course was inspired by educator feedback. Educators were also involved in the course at the design-level, as many unit activities, worksheets, and video scripts were written by current algebra classroom teachers. Pennsylvania Algebra I reflects our commitment to standards alignment and putting the needs of educators and students first in all aspects of course design.

### **Pennsylvania Algebra II A/B**

Pennsylvania Algebra II is a completely re-designed course that offers 100% alignment to the Pennsylvania Core Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering a focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and



model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Pennsylvania Algebra II reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Pennsylvania Geometry A/B**

Pennsylvania Geometry v2.0 is a completely re-designed course that offers 100% alignment to the Pennsylvania Academic Standards. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering a focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforced connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Pennsylvania Geometry v2.0 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Precalculus (Apex)**

Precalculus 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 lesson, students are supplied with a post-study checkup activity that provides them the opportunity to hone their computational skills by working through a low-stakes problem set before moving on to formal assessment. Unit-level assessments include a computer-scored test and a scaffolded, teacher-scored test.

The course is built to state standards and the National Council of Teachers of Mathematics (NCTM) standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Precalculus A/B**

Precalculus builds on algebraic concepts to prepare students for calculus. The course begins with a review of basic algebraic concepts and moves into operations with functions, where students manipulate functions and their graphs. Precalculus also provides a detailed look at trigonometric functions, their graphs, the trigonometric identities, and the unit circle. Finally, students are introduced to polar coordinates, parametric equations, and limits.

### **Precalculus A/B Honors**

Precalculus builds on algebraic concepts to prepare students for calculus. The course begins with a review of basic algebraic concepts and moves into operations with functions, where students manipulate functions and their graphs. Precalculus also provides a detailed look at trigonometric functions, their graphs, the trigonometric identities, and the unit circle. Finally, students are introduced to polar coordinates, parametric equations, and limits.



### Probability & Statistics

This course is designed for students in grades 11 and 12 who may not have attained a deep and integrated understanding of the topics in earlier grades. Students acquire a comprehensive understanding of how to represent and interpret data; how to relate data sets; independent and conditional probability; applying probability; making relevant inferences and conclusions; and how to use probability to make decisions.

### Probability and Statistics (Apex)

Probability and Statistics provides a curriculum focused on understanding key data analysis and probabilistic concepts, calculations, and relevance to real-world applications. Students are challenged to work toward mastery of computational skills, apply calculators and other technology in data analysis, deepen their understanding of key ideas and solution strategies, and extend their knowledge through a variety of problem-solving applications.

Course topics include types of data, common methods used to collect data, and representations of data, including histograms, bar graphs, box plots, and scatterplots. Students learn to work with data by analyzing and employing methods of extending results, involving samples and populations, distributions, summary statistics, experimental design, regression analysis, simulations, and confidence intervals.

Ideas involving probability — including sample space, empirical and theoretical probability, expected value, and independent and compound events — are covered as students explore the relationship between probability and data analysis.

Projects allow for more open-ended, extended applications of concepts and skills. Students collect and analyze statistical data about a topic that interests them, and they apply probability concepts in a real-world context. The content is based on the Common Core standards and is aligned with state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

## English Language Arts

### AP® English Language and Composition A/B

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.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

### AP® English Literature and Composition A/B

Each unit of AP® English Literature and Composition is based on a researched scope and sequence that covers the essential concepts of literature at an AP level. Students engage in in-depth analysis of literary works in order to provide both depth and breadth of coverage of the readings. Units include Close Analysis and Interpretation of Fiction, Short Fiction, the Novel, and Poetic Form and Content. Writing activities reinforce the reading activities and include writing arguments, analysis, interpretation, evaluation, and college application essays. This course has been authorized by the College Board® to use the AP® designation.





\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

### **Business English A/B**

Business English is designed to strengthen students' ability to read and write in the workplace. Writing for business purposes is a main focus of the course. Students will learn how to communicate effectively through email and instant messaging, as well as format specific types of business messages and workplace documents. The role of digital media, visuals, and graphics in workplace communication will be explored. The importance of professionalism, ethics, and other positive skills are also emphasized in the course. Additionally, guidance is provided to help students through the process of searching, applying, and interviewing for a job.

### **Calvert Grade 1 English Language Arts**

This course continues to build on and add to the foundational skills students learned in kindergarten through daily learning. Over the course of the year, students will develop a fuller range of phonics, comprehension, vocabulary, spelling, and fluency skills. Students will think critically about authentic texts and begin to practice writing to communicate their thoughts. During the course, students will practice narrative, informational, and persuasive writing. Project-based activities include writing a narrative about their favorite day and creating a persuasive poster about their favorite treat.

### **Calvert Grade 2 English Language Arts**

In this course, students will increase the complexity of foundational phonics, high-frequency words, sentence creation, and other daily activities. Reading, writing, speaking, and listening skills are intertwined so that students learn them organically and with purpose. Students will read a variety of trade books, shorter texts, excerpts, articles, and leveled readers across genres to keep engagement high and learning fresh. Through reading and writing, students explore character analysis, story structure, biographies, and interpretation of informational texts. Projects include exploring pioneer life through narrative, informational, and persuasive writing.

### **Calvert Grade 3 English Language Arts**

Students in ELA will apply critical thinking skills in their reading and learn the skills to become independent readers and writers. In this course, students will complete the foundations of reading independently and take more ownership of their learning. Students will read multiple genres of both literary and informational texts and use these texts as models for their own writing. The course emphasizes close reading opportunities that focus on the development of complex topics such as the organizational structure of text, nuance in word meanings, and the development of an argument. Projects include creating an informational brochure about unique places on the planet.

### **Calvert Grade 4 English Language Arts**

In ELA, students will develop reading and writing skills with a growing focus on nonfiction and opinion writing. Exploring topics like natural disasters and currencies, students will increase their autonomy as readers and sharpen claims supported by evidence. Students will learn how to conduct research, integrate information, make connections across sources, and organize information. Later, they will demonstrate their understanding and skills through project-based activities such as creating an investigative journalism report for a television news segment.

### **Calvert Grade 5 English Language Arts**

In ELA, students will prepare for the rigor of middle school curriculum by studying complex sentence structure and reading challenging nonfiction. Structured novel study prepares students for middle school, as does the examination of multiple types of texts and writing. Students will read both fiction and nonfiction texts, and are able to write opinion pieces with strong evidential support. Student choice is at the heart of all projects, and



students will write their own sci-fi narrative and choose a topic for an opinion piece on issues that impact their community.

### **Calvert Kindergarten English Language Arts**

Kindergarten ELA begins to develop students' reading skills through daily phonemic awareness, phonics, print concepts, and decoding work. Students will learn how to identify characters, settings, and major events in a story, all contextualized in authentic texts. Projects include writing about communities and finding patterns in the real world. Students will be given multiple opportunities to practice their foundational skills when thinking and communicating about texts.

### **English 06 A/B**

English 6 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study how nonfiction and literature can be used to share ideas. Writing lessons combine free-response exercises with drafting strategies and exemplars to help students communicate clearly and credibly in narrative, argumentative, and informational styles. To develop skills specific to public discourse, speaking and listening lessons guide students as they evaluate one another's speeches and adjust to new audiences and situations. In language lessons, students build foundational grammar skills they need to articulate their ideas and understand challenging words.

The two-semester course is arranged in units that each center on a set of skills or a broad topic. Each unit has four lessons: three instructional lessons and one lesson of assessment. The instructional lessons include a variety of activities, such as direct instruction, assignments, discussions, and both formative and summative assessments. The assessment lesson presents the unit test after giving students a chance to review. Throughout the course, students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Common Core State Standards and demonstrate their learning through computer- and teacher-scored applications.

This updated course was originally created for Apex Courses and is now available in Courseware.

### **English 07 A/B**

English 7 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study how nonfiction and literature can be used to share ideas. Writing lessons combine free-response exercises with drafting strategies and exemplars to help students communicate clearly and credibly in narrative, argumentative, and informational styles. To develop skills specific to public discourse, speaking and listening lessons guide students as they evaluate one another's speeches and adjust to new audiences and situations. In language lessons, students build foundational grammar skills they need to articulate their ideas and understand challenging words.

The two-semester course is arranged in units that each center on a set of skills or a broad topic. Each unit has four lessons: three instructional lessons and one lesson of assessment. The instructional lessons include a variety of activities, such as direct instruction, assignments, discussions, and both formative and summative assessments. The assessment lesson presents the unit test after giving students a chance to review. Throughout the course, students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Common Core State Standards and demonstrate their learning through computer- and teacher-scored applications.

This updated course was originally created for Apex Courses and is now available in Courseware.

### **English 08 A/B**

English 8 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study



how nonfiction and literature can be used to share ideas. Writing lessons combine free-response exercises with drafting strategies and exemplars to help students communicate clearly and credibly in narrative, argumentative, and informational styles. To develop skills specific to public discourse, speaking and listening lessons guide students as they evaluate one another's speeches and adjust to new audiences and situations. In language lessons, students build foundational grammar skills they need to articulate their ideas and understand challenging words.

The two-semester course is arranged in units that each center on a set of skills or a broad topic. Each unit has four lessons: three instructional lessons and one lesson of assessment. The instructional lessons include a variety of activities, such as direct instruction, assignments, discussions, and both formative and summative assessments. The assessment lesson presents the unit test after giving students a chance to review. Throughout the course, students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Common Core State Standards and demonstrate their learning through computer- and teacher-scored applications.

This updated course was originally created for Apex Courses and is now available in Courseware.

### English 09 A/B

English 09 v7.0 is a completely re-designed course that offers 100% alignment to the Common Core State Standards for English Language Arts. In addition to an emphasis on alignment, the redesigned lessons are designed based on a clear thematic connection and build upon each other ensuring that standards are scaffolded and covered multiple times going deeper with each lesson. Texts in this course are diverse, authentic, complex, and rich in length. Students encounter texts multiple times over the course of a unit digging deeper in theme and focus standards. Each lesson follows a clear instructional model mirroring that of the traditional tier-one lesson cycle: warm-up, direct teach with modeling, guided practice, independent practice, and closure. Instructional best practices are embedded throughout lessons such as close reading, modeling, and chunking. Features to support student mastery included guided notes and graphic organizers. Scaffolding pieces, such as Clarifying Big Ideas (CBI) lessons are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. These CBI lessons include additional modeling, student examples, and detailed explanations to ensure students internalize key concepts discussed in tutorials.

### English 09 A/B Honors

English 09 v7.0 is a completely re-designed course that offers 100% alignment to the Common Core State Standards for English Language Arts. In addition to an emphasis on alignment, the redesigned lessons are designed based on a clear thematic connection and build upon each other ensuring that standards are scaffolded and covered multiple times going deeper with each lesson. Texts in this course are diverse, authentic, complex, and rich in length. Students encounter texts multiple times over the course of a unit digging deeper in theme and focus standards. Each lesson follows a clear instructional model mirroring that of the traditional tier-one lesson cycle: warm-up, direct teach with modeling, guided practice, independent practice, and closure. Instructional best practices are embedded throughout lessons such as close reading, modeling, and chunking. Features to support student mastery included guided notes and graphic organizers. Scaffolding pieces, such as Clarifying Big Ideas (CBI) lessons are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. These CBI lessons include additional modeling, student examples, and detailed explanations to ensure students internalize key concepts discussed in tutorials.

### English 10 (Apex)



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 a variety of audiences. *This updated course was originally created for Apex Courses and is now available in Courseware.*

### English 10 A/B

English 10 is a completely re-designed course that offers 100% alignment to the Common Core State Standards for English Language Arts. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for learners, and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. This new design offers learners multiple opportunities to experience the reading and writing connection via analysis tasks, and other opportunities to engage in research and experience writing across genres. Instructional best practices are embedded throughout lessons such as the close reading of texts and application of reading strategies. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. Scaffolding pieces, such as Clarifying Big Ideas (CBI) lessons, are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. These CBI lessons include additional modeling, student examples, and detailed explanations to ensure students internalize key concepts discussed in tutorials. This fresh new look and feel for the course was inspired by educator feedback. English 10 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### English 10 A/B Honors

English 10 is a completely re-designed course that offers 100% alignment to the Common Core State Standards for English Language Arts. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for learners, and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. This new design offers learners multiple opportunities to experience the reading and writing connection via analysis tasks, and other opportunities to engage in research and experience writing across genres. Instructional best practices are embedded throughout lessons such as the close reading of texts and application of reading strategies. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. Scaffolding pieces, such as Clarifying Big Ideas (CBI) lessons, are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention





to common misunderstandings and articulating the big ideas that underpin learning. These CBI lessons include additional modeling, student examples, and detailed explanations to ensure students internalize key concepts discussed in tutorials. This fresh new look and feel for the course was inspired by educator feedback. English 10 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### English 11 (Apex)

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 prepare speeches. Overall, students gain an understanding of the way American literature represents the array of voices contributing to our multicultural identity.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### English 11 A/B

English 11A explores the relation between American history and literature from the colonial period through the realism and naturalism eras. English 11B explores the relation between American history and literature from the modernist period through the contemporary era and presents learners with relevant cultural and political history. Readings are scaffolded with pre-reading information, interactions, and activities to actively engage learners in the content. The lessons in both semesters focus on developing grammar, vocabulary, speech, and writing skills.

### English 11 A/B Honors

English 11A explores the relation between American history and literature from the colonial period through the realism and naturalism eras. English 11B explores the relation between American history and literature from the modernist period through the contemporary era and presents learners with relevant cultural and political history. Readings are scaffolded with pre-reading information, interactions, and activities to actively engage learners in the content. The lessons in both semesters focus on developing grammar, vocabulary, speech, and writing skills.

### English 12 (Apex)

The English 12 course asks students to closely analyze 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 *The Tempest*, in the satire of Swift, and in the rhetoric of World War II, students examine how the ideas of heroism and monstrosity 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 prepare speeches. Overall, students gain an understanding of the way world literature represents the array of voices that contribute to our global identity.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### English 12 A/B

In keeping with the model established in English 11, these courses emphasize the study of literature in the context of specific historical periods, beginning with the Anglo-Saxon and medieval periods in Britain. Each lesson includes tutorials and embedded lesson activities that provide for a more engaging and effective learning experience. Semester B covers the romantic, Victorian, and modern eras. End of unit tests ensure mastery of the concepts taught in each unit, and exemptive pretests allow students to focus on content that they have yet to master.

### English 12 A/B Honors

In keeping with the model established in English 11, these courses emphasize the study of literature in the context of specific historical periods, beginning with the Anglo-Saxon and medieval periods in Britain. Each lesson includes tutorials and embedded lesson activities that provide for a more engaging and effective learning experience. Semester B covers the romantic, Victorian, and modern eras. End of unit tests ensure mastery of the concepts taught in each unit, and exemptive pretests allow students to focus on content that they have yet to master.

### English 9 (Apex)

English 9 introduces students to informational and literary genres. Students investigate the elements of nonfiction and literature through the critical analysis of texts that range from essays, speeches, articles and historical documents to a novel, a play, poetry, and short stories. 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*).

As they develop their writing skills and respond to theses, students learn to formulate arguments and use textual evidence to support their position. Throughout the course, students learn to engage with a variety of media types through which they process and synthesize information, discuss material, create presentations, and share their work.

English 9 supports all students in developing the depth of understanding and higher-order skills required by the state standards. Students break down increasingly complex readings with close reading tools, guided instruction, and robust scaffolding as they apply each of the lesson's concepts back to its anchor text. Students build their writing and speaking skills in journal responses, discussions, frequent free-response exercises, and essays or presentations, learning to communicate clearly and credibly in narrative, persuasive, and explanatory styles. Throughout the course, students are evaluated through a diversity of assessments designed to prepare them for the content, form, and depth of state exams.



The first semester of English 9 can be paired with one of two second semesters that each employ a different example of a full-length Shakespeare play. One option includes "Macbeth," and the alternative option includes "Romeo and Juliet."

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **English Foundations I (Apex)**

English Foundations I supports adolescent literacy development at the critical stage between decoding and making meaning from text. Through intensive reading and writing skills instruction, deep practice sets, consistent formative feedback, graduated reading levels, and helpful strategy tips, the course leads students to improved comprehension and text handling.

Semester A provides instruction in basic reading skills and vocabulary building. The student learns what a successful reader does to attack words and sentences and make meaning from them. Semester B provides instruction in basic writing skills, introduces academic tools, and demonstrates effective study skills. The student learns step-by-step processes for building effective paragraphs and learns how to use academic tools such as reference books and outlines. To provide additional support, the course uses text features and visual clues to draw students' attention to important information. The use of text features is also designed to help students internalize strategies for comprehending informational text.

Characters appear throughout the instruction to offer tips and fix-up strategies in an authentic, first-person, think-aloud format. Their inclusion makes transparent the reading processes that go on inside the mind of a successful reader. This extra metacognitive support serves to bolster student confidence and provide a model of process and perseverance.

Numerous practice opportunities are provided in the form of assessments that move from no stakes to low stakes to high stakes throughout a unit. This practice is centered on authentic and age-appropriate passages that are written in a topical framework and use controlled syntax and vocabulary. The difficulty of these passages gradually increases from a 3rd- to 5th-grade reading level over the duration of the course. Additional support is offered through significant formative feedback in practice and assessment.

This course guides students through the reading, writing, and basic academic skills needed to prepare for success in academic coursework. At the end of the course, the student should be poised for continued success in the academic world. The content is based on extensive national and state standards research and consultation with reading specialists and classroom teachers. This course is built to state standards for reading and writing and informed by NCTE/IRA reading and writing standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **English Foundations II (Apex)**

English Foundations II offers a year of skill building and strategy development in reading and writing. Semester A is a reading program designed to help struggling readers develop mastery in the areas of reading comprehension, vocabulary building, study skills, and media literacy. Semester B is a writing program that builds confidence in composition fundamentals by focusing on the areas of composing, grammar, style, and media literacy. Each semester is composed of 10 mini-units, which offer interactive instruction and guided practice in each of the four learning strands. Students read for a variety of purposes and write for a variety of audiences. The workshops stress high interest, engaging use of technology, relevant topics, and robustly scaffolded practice. Students learn to use different types of graphic organizers as they develop and internalize



reading and writing process strategies. They build confidence as they develop skills and experience success on numerous low-stakes assessments that encourage growth and reinforce learning.

The reading component of the course is built to state standards and informed by the National Council of Teachers of English (NCTE), International Reading Association (IRA), National Reading Program (NRP), and McREL standards. The writing component of the course is built to state standards and informed by the National Council of Teachers of English (NCTE) standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Media Literacy (Apex)**

Media Literacy teaches students how to build the critical thinking, writing, and reading skills required in a media-rich and increasingly techno-centric world. In a world saturated with media messages, digital environments, and social networking, concepts of literacy must expand to include all forms of media. Today's students need to be able to read, comprehend, analyze, and respond to non-traditional media at the same skill level at which they engage with traditional print sources.

A major topic in Media Literacy is non-traditional media reading skills, including how to approach, analyze, and respond to advertisements, blogs, websites, social media, news media, and wikis. Students also engage in a variety of writing activities in non-traditional media genres, such as blogging and podcast scripting.

Students consider their own positions as consumers of media and explore ways to use non-traditional media to become more active and thoughtful citizens. Students learn how to ask critical questions about the intended audience and underlying purpose of media messages, and they study factors that can contribute to bias and affect credibility.

This course is built to state standards and informed by The National Association for Media Literacy Education's Core Principles of Media Literacy Education.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Pennsylvania English 09 A/B**

Pennsylvania English/Language Arts I v2.0 is a completely re-designed course that offers 100% alignment to the Pennsylvania Core Standards for English Language Arts. In addition to an emphasis on alignment, the redesigned lessons are designed based on a clear thematic connection and build upon each other ensuring that standards are scaffolded and covered multiple times going deeper with each lesson. Texts in this course are diverse, authentic, complex, and rich in length. Students encounter texts multiple times over the course of a unit digging deeper in theme and focus standards. Each lesson follows a clear instructional model mirroring that of the traditional tier-one lesson cycle: warm-up, direct teach with modeling, guided practice, independent practice, and closure. Instructional best practices are embedded throughout lessons such as close reading, modeling, and chunking. Features to support student mastery included guided notes and graphic organizers. Scaffolding pieces, such as Clarifying Big Ideas (CBI) lessons are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. These CBI lessons include additional modeling, student examples, and detailed explanations to ensure students internalize key concepts discussed in tutorials.

### **Pennsylvania English 10 A/B**

Pennsylvania English 10 is a completely re-designed course that offers 100% alignment to the Pennsylvania Core Standards for English Language Arts. In addition to the emphasis on alignment, the new lessons in the





course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for learners, and intentionally grouped to reinforce connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. This new design offers learners multiple opportunities to experience the reading and writing connection via analysis tasks, and other opportunities to engage in research and experience writing across genres. Instructional best practices are embedded throughout lessons such as the close reading of texts and application of reading strategies. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. Scaffolding pieces, such as Clarifying Big Ideas (CBI) lessons, are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. These CBI lessons include additional modeling, student examples, and detailed explanations to ensure students internalize key concepts discussed in tutorials. This fresh new look and feel for the course was inspired by educator feedback. Pennsylvania English 10 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

### **Pennsylvania English 11 A/B**

Pennsylvania English 11 A/B is a completely re-designed course that offers 100% alignment to the PA Academic Standards for English Language Arts. Semester A explores the relation between American history and literature from the colonial period through the realism and naturalism eras. Semester B explores the relation between American history and literature from the modernist period through the contemporary era and presents learners with relevant cultural and political history. Readings are scaffolded with pre-reading information, interactions, and activities to actively engage learners in the content. The lessons in both semesters focus on developing grammar, vocabulary, speech, and writing skills.

### **Pennsylvania English 12 A/B**

Pennsylvania English 12 A/B is a completely re-designed course that offers 100% alignment to the PA Academic Standards for English Language Arts. In keeping with the model established in Pennsylvania English 11, these courses emphasize the study of literature in the context of specific historical periods, beginning with the Anglo-Saxon and medieval periods in Britain in semester A. Each lesson includes tutorials and embedded lesson activities that provide for a more engaging and effective learning experience. Semester B covers the romantic, Victorian, and modern eras. End of unit tests ensure mastery of the concepts taught in each unit, and exemptive pretests allow students to focus on content that they have yet to master.

## Science

### **AP® Biology A/B**

To generate skills for lifelong learning, 25 percent of the lessons in Advanced Biology use student-driven, constructivist approaches for concept development. The remaining lessons employ direct-instruction approaches. In both cases, the lessons incorporate multimedia-rich, interactive resources to make learning an engaging experience. The AP® approach to advanced biology topics helps students achieve mastery of abstract concepts and their application in everyday life and in STEM-related professions.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

### **AP® Chemistry A/B**



AP® Chemistry includes most of the 22 laboratory experiments recommended by the College Board to provide a complete advanced experience in a blended environment. More than 25 percent of the online lesson modules are inquiry-based and employ online simulations, data-based analysis, online data-based tools, and —kitchen sink labs that require no specialized equipment or supervision. Many of the lessons include significant practice in stoichiometry and other critical, advanced chemistry skills.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

### AP® Environmental Science A/B

AP® Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course draws upon various disciplines, including geology, biology, environmental studies, environmental science, chemistry, and geography in order to explore a variety of environmental topics. The equivalent of an introductory college-level science course, AP® Environmental Science prepares students for the AP® exam and for further study in science, health sciences, or engineering. 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. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity.

Students also perform hands-on labs and projects that give them insight into the nature of science and help them understand environmental concepts, as well as how evidence can be obtained to support those concepts.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

### Biology (Apex)

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.

This course is built to state standards and informed by the Next Generation Science Standards (NGSS).

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Biology A/B

This inquiry- and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards for high school biology. Content topics include cells, organ systems, heredity, organization of organisms, evolution, energy use in organisms, and the interdependence of ecosystems. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities.

Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National



Research Council (2006, p. 3). Lab materials note: Most hands-on labs employ relatively-common household materials. A few labs require specialized scientific equipment or materials, such as a microscope, slides, or biological samples. These few specialized labs are optional but provide valuable laboratory experience. School laboratories may be used for these specialized labs or single-student Edmentum Lab Kits may be purchased from Ward's Science. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

### **Biology with Virtual Labs A/B**

This inquiry- and virtual-lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards for high school biology. Content topics include cells, organ systems, heredity, organization of organisms, evolution, energy use in organisms, and the interdependence of ecosystems. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a number of virtual lab activities in which students will exercise experimental design, data analysis, and data interpretation skills while working through a simulated laboratory situation. Lab materials note: None of the virtual labs require specialized laboratory materials or tools. Some virtual labs do allow students to make use of common, household items—such as paper and a pencil—if they choose.

### **Biology with Virtual Labs A/B Honors**

This inquiry- and virtual-lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards for high school biology. Content topics include cells, organ systems, heredity, organization of organisms, evolution, energy use in organisms, and the interdependence of ecosystems. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a number of virtual lab activities in which students will exercise experimental design, data analysis, and data interpretation skills while working through a simulated laboratory situation. Lab materials note: None of the virtual labs require specialized laboratory materials or tools. Some virtual labs do allow students to make use of common, household items—such as paper and a pencil—if they choose.

### **Calvert Grade 1 Science**

In Science 1, students will make observations about light, sound, matter, plants, animals, and the sky to thoroughly think about problems and ask questions. Students will discover and explore patterns to understand the relationships between objects, animals, and the environment. Students will work individually and collaboratively to compare and test designs to develop solutions. Students will also plan and conduct investigations to produce data as evidence and use a variety of devices to communicate results.

### **Calvert Grade 2 Science**

Students in grade 2 will use project-based learning to observe and construct evidence-based accounts of natural phenomena. Students will conduct virtual labs to observe properties, gather information, analyze data, test tools, and construct evidentiary arguments. Students will obtain information from various sources and compare findings to develop solutions. In Science 2, students will explore the various states and properties of matter and the impact of heating and cooling molecules. Students will also discover the impact of living things and the elements on the environment and use engineering principals to design tools to solve real-world concerns.

### **Calvert Grade 3 Science**

Students are encouraged to think critically about their observations and explore multiple answers to problems. Students will conduct sophisticated research using variables, technology, engineering, and fair test practices. Students will explore force and motion, cause and effect relationships, the life cycles of living organisms, and weather patterns. Students also begin learning how limited resources and materials put constraints on problem-solving.



### Calvert Grade 4 Science

In this course, students will use models to test interactions as they learn, understand, and test scientific theories. Through the study of natural earth processes, the transfer of energy, and the impact of weather on living things, students will use measurements to investigate and predict reasonable outcomes based on their observation of patterns and lab results. Students will test multiple outcomes to solutions and construct arguments supported with evidence, models, and organized data. Students will continue to learn the importance of communicating ideas through collaborative projects.

### Calvert Grade 5 Science

In this course, students will gain a deeper understanding of the transformation of energy and its impact on the environment and living things. Through advanced labs and interactive activities students will discover gravity, systems in space, matter cycles, and the impact humans have on the environment. Students will understand major earth systems and conduct investigations to learn the relationship between living organisms and energy. Students will quantify their solutions and measure and graph certified results. Students will further discover ways communities use scientific ideas to protect the planet's resources and the environment.

### Calvert Kindergarten Science

Students will learn introductory concepts of physical science, life science, and earth science. Students will begin to investigate their world and develop questions based on their observations. They will employ STEM skills through virtual labs, interactive activities, collaborations, simulations, and project-based activities. Kindergarten students will learn to ask and answer scientific questions about natural patterns, living things, and the impact they have in relationship to each other and their environment. Using the scientific method, students will define simple problems, analyze data, design sketches and models, and use evidence to construct arguments and communicate solutions.

### Chemistry (Apex)

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.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Chemistry A/B

This inquiry- and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with high school chemistry along with additional concepts and standards typically included in a full-year high school chemistry course. Content topics include atoms and elements, chemical bonding, chemical reactions, quantitative chemistry, molecular-level forces, solutions, and energy and changes in matter. It also addresses additional concepts and standards typically included in a full-year high school chemistry course, including molar concentrations, acid-base reactions, advanced





stoichiometry, gas laws, and organic compounds. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities. Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National Research Council (2006, p. 3). Lab materials note: Most hands-on labs employ relatively-common household materials. A few labs require specialized scientific equipment or materials, such as an electronic balance (0.01g), graduated cylinders, test tubes, and chemical reagents. These few specialized labs are optional but provide valuable laboratory experience. School laboratories may be used for these specialized labs or single-student Edmentum Lab Kits may be purchased from Ward's Science. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

### **Chemistry A/B Honors**

This inquiry- and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with high school chemistry along with additional concepts and standards typically included in a full-year high school chemistry course. Content topics include atoms and elements, chemical bonding, chemical reactions, quantitative chemistry, molecular-level forces, solutions, and energy and changes in matter. It also addresses additional concepts and standards typically included in a full-year high school chemistry course, including molar concentrations, acid-base reactions, advanced stoichiometry, gas laws, and organic compounds. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities. Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National Research Council (2006, p. 3). Lab materials note: Most hands-on labs employ relatively-common household materials. A few labs require specialized scientific equipment or materials, such as an electronic balance (0.01g), graduated cylinders, test tubes, and chemical reagents. These few specialized labs are optional but provide valuable laboratory experience. School laboratories may be used for these specialized labs or single-student Edmentum Lab Kits may be purchased from Ward's Science. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

### **Earth Science (Apex)**

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 and concepts 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 and projects encourage students to apply the scientific method. This course is built to state standards and informed by the National Science Teachers Association (NSTA).

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Environmental Science (Apex)**

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 nonrenewable 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 labs enable students to engage in investigations that would otherwise 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.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### High School Earth & Space Science A/B

This inquiry- and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with high school Earth and space science. Content topics include scientific processes and methods, the universe, the Precambrian Earth, the Earth's materials and tectonics, the hydrosphere and atmosphere, and human interactions with the Earth's systems and resources. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities.

Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National Research Council (2006, p. 3). Lab materials note: Most hands-on labs employ relatively-common household materials. A few labs require specialized scientific equipment or materials, such as an electronic balance (0.01g), graduated cylinders, and a water testing kit. These few specialized labs are optional but provide valuable laboratory experience. School laboratories may be used for these specialized labs or single-student Edmentum Lab Kits may be purchased from Ward's Science. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

### High School Earth & Space Science A/B Honors

This inquiry- and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with high school Earth and space science. Content topics include scientific processes and methods, the universe, the Precambrian Earth, the Earth's materials and tectonics, the hydrosphere and atmosphere, and human interactions with the Earth's systems and resources. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities.

Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National Research Council (2006, p. 3). Lab materials note: Most hands-on labs employ relatively-common household materials. A few labs require specialized scientific equipment or materials, such as an electronic balance (0.01g), graduated cylinders, and a water testing kit. These few specialized labs are optional but provide valuable laboratory experience. School laboratories may be used for these specialized labs or single-student Edmentum Lab Kits may be purchased from Ward's Science. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

### Integrated Physics & Chemistry A/B

The lessons in this course employ direct-instruction approaches. They include application and Inquiry-oriented activities that facilitate the development of higher-order cognitive skills, such as logical reasoning, sense-making, and problem solving. Lab materials note: None of the virtual labs require specialized laboratory materials or tools. Some virtual labs do allow students to make use of common, household items—such as paper and a pencil—if they choose.

### Integrated Physics & Chemistry A/B Honors

The lessons in this course employ direct-instruction approaches. They include application and Inquiry-oriented activities that facilitate the development of higher-order cognitive skills, such as logical reasoning, sense-making, and problem solving. Lab materials note: None of the virtual labs require specialized laboratory



materials or tools. Some virtual labs do allow students to make use of common, household items—such as paper and a pencil—if they choose.

### **Middle School Earth and Space Science A/B**

Middle School Earth and Space Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts including Earth's systems, engineering design, the nature of the universe, and the interaction between humans and the environment. The two-semester course is arranged in themed units, each with two to three lessons. In each unit, activities make complex ideas accessible to students as they discover the nature of science through focused content, interactive mini-investigations, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Next Generation Science Standards and demonstrate their learning through computer- and teacher-scored assignments.

This updated course was originally created for Apex Courses and is now available in Courseware.

### **Middle School Life Science A/B**

Middle School Life Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts including the relationship between structure and function, the flow of energy and matter through living systems, heredity, and the diversity of life. The two-semester course is arranged in themed units, each with two to three lessons. In each unit, activities make complex ideas accessible to students as they discover the nature of science through focused content, interactive mini-investigations, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Next Generation Science Standards and demonstrate their learning through computer- and teacher-scored assignments.

This updated course was originally created for Apex Courses and is now available in Courseware.

### **Middle School Physical Science A/B**

Middle School Physical Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts including the interactions of matter; motion and stability; waves and their technological applications; and energy. The two-semester course is arranged in themed units, each with two to three lessons. In each unit, activities make complex ideas accessible to students as they discover the nature of science through focused content, interactive mini-investigations, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Next Generation Science Standards and demonstrate their learning through computer- and teacher-scored assignments.

This course is built to state standards.

This updated course was originally created for Apex Courses and is now available in Courseware.

### **Physical Science (Apex)**

Physical Science offers a focused curriculum designed around the understanding of foundational physical science concepts, including the nature of matter, energy, and forces, as well as the application of scientific and engineering practices.

Course topics include energy, forces, electromagnetism, waves, matter, chemical reactions, and nuclear reactions. Teacher-scored labs encourage students to apply the scientific method.



Students discover new concepts through guided instruction and confirm their understanding in an interactive, feedback-rich environment. 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.

A variety of activities encourage students to think scientifically. Labs and projects reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science and engineering. Virtual labs allow students to engage in investigations that would otherwise require long periods of observation at remote locations and to explore simulations that scientists use to test predictions. In discussion activities, students compare their lab results and exchange ideas about their investigations. Practice and explore activities provide additional opportunities for students to apply learned concepts and practice their writing and scientific reasoning skills.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Physical Science A/B

This inquiry- and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with middle school physical science. Content topics include structure and properties of matter, chemical reactions, forces and motion, force fields, energy, and waves. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities. Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National Research Council (2006, p. 3). (Credit Recovery versions available) \*NCAA Approved\* Lab materials note: All hands-on labs employ relatively common household materials. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

### Physics (Apex)

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.

This course is built to state standards and informed by the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Physics A/B

Physics introduces students to the physics of motion, properties of matter, force, heat, vector, light, and sound. Students learn the history of physics from the discoveries of Galileo and Newton to those of contemporary physicists. The course focuses more on explanation than calculation and prepares students for introductory quantitative physics at the college level. Additional areas of discussion include gases and liquids, atoms,





electricity, magnetism, and nuclear physics. Lab materials note: None of the virtual labs require specialized laboratory materials or tools. Some virtual labs do allow students to make use of common, household items—such as paper and a pencil—if they choose.

### Physics A/B Honors

Physics introduces students to the physics of motion, properties of matter, force, heat, vector, light, and sound. Students learn the history of physics from the discoveries of Galileo and Newton to those of contemporary physicists. The course focuses more on explanation than calculation and prepares students for introductory quantitative physics at the college level. Additional areas of discussion include gases and liquids, atoms, electricity, magnetism, and nuclear physics. Lab materials note: None of the virtual labs require specialized laboratory materials or tools. Some virtual labs do allow students to make use of common, household items—such as paper and a pencil—if they choose.

### Science 6 (Apex)

Middle School Grade 6 Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as the flow of energy and matter through both living and nonliving systems, including Earth's systems; Earth's weather and climate; the interaction between humans and the environment; the relationship between structure and function; and growth, development, and reproduction in organisms.

The two-semester course is arranged in themed units, each with two to three lessons. In each unit, activities make complex ideas accessible to students as they discover the nature of science through focused content, interactive mini-investigations, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Next Generation Science Standards and demonstrate their learning through computer- and teacher-scored assignments.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Science 7 (Apex)

Middle School Grade 7 Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as the structures and properties of matter; chemical reactions; the flow of energy through systems, including Earth's living and nonliving systems; and the history of Earth.

The two-semester course is arranged in themed units, each with two to three lessons. In each unit, activities make complex ideas accessible to students as they discover the nature of science through focused content, interactive mini-investigations, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Next Generation Science Standards and demonstrate their learning through computer- and teacher-scored assignments.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Science 8 (Apex)

Middle School Grade 8 Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as waves and electromagnetic radiation, energy and forces on Earth and in space, genetics and natural selection, and engineering design.

The two-semester course is arranged in themed units, each with two to three lessons. In each unit, activities make complex ideas accessible to students as they discover the nature of science through focused content,



interactive mini-investigations, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through content aligned to the Next Generation Science Standards and demonstrate their learning through computer- and teacher-scored assignments.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Science Foundations (Apex)

Science Foundations provides students with opportunities to develop the knowledge, skills, and strategies necessary for success in rigorous high school science courses. The course is appropriate for use as remediation at the high school level or as a bridge to high school.

Science Foundations is a two-semester course, with each semester containing 10 mini-units. Each mini-unit is composed of three lessons. The first lesson focuses on key concepts found in Earth science, physical science, and life science. The second lesson reinforces reading and math skills students need to be successful with the content introduced in the first lesson. The third lesson introduces scientific inquiry and critical thinking skills that will help students thrive in science as well as other disciplines. Carefully paced, guided instruction is accompanied by engaging and accessible interactive practice. Checkup activities provide an opportunity to review content prior to assessment. Practice activities offer an opportunity to apply concepts that were presented in study activities.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Social Studies

#### AP® Macroeconomics (Apex)

AP® Macroeconomics is a one-semester course in which 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 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, or history. This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse, this product.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

#### AP® Microeconomics (Apex)

AP® Microeconomics is a one-semester course in which students learn about 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 nature and function of markets, the roles 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, or political science.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse, this product.



*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **AP® Psychology (Apex)**

AP® Psychology is a one-semester course that provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development, and human aggression, altruism, intimacy, and self-reflection. They will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of an introductory college-level survey course, AP® Psychology prepares students for the AP® exam and for further studies in psychology or life sciences.

This course has been authorized by the College Board® to use the AP® designation.

Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse, this product.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **AP® U.S. History A/B**

AP® U.S. History develops critical thinking skills by encouraging multiple views as students realized that there are often multiple accounts of a single historical event that may not be entirely consistent. Electronic discussion groups encourage collaboration, and a variety of practice activities are provided, from multiple choice actions to advanced interactions. Units include: The Historical Process; Early America; Revolutionary America; The Civil War; Populism and Progressivism; the emergence of the U.S. as a world power; and contemporary themes. This course has been authorized by the College Board® to use the AP® designation.\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

### **AP® US Government and Politics (Apex)**

AP® US Government and Politics is a one-semester course in which students learn about 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® US Government and Politics prepares students for the AP® exam and for further study in political science, law, education, business, or history.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse, this product.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Calvert Grade 1 Social Studies**

Social Studies introduces concepts in economics and good citizenship. Students will be introduced to simple geographic models, such as maps, globes, and graphs, to identify cultural and environmental characteristics of places. They will learn about the many uses of maps by making a "Personal Atlas to My Life." History comes alive with read-aloud narratives about well-known explorers, political figures, inventors, and leaders in American life.



### Calvert Grade 2 Social Studies

Students study the early history of the United States, its geography, and the cultures that inhabited it from the Native Americans to the colonists through video, timelines, and interactive maps and images. Students will also learn about U.S. government, economics, and trade concepts. They will demonstrate knowledge through project-based activities such as creating a travel guide of their favorite places and making a plan to earn and save money.

### Calvert Grade 3 Social Studies

Students in grade 3 Social Studies, students will explore the geography and culture of North America. They will gain an understanding of how geography informs how we live by studying different regions and cultures of the U.S. Students will also delve into topics of citizenship, civic duty, and economics. Students will be given opportunities to express themselves and demonstrate understanding through project-based learning opportunities such as developing and implementing a community service project, designing a summer business, and investigating the history of the people of their state before it became a state.

### Calvert Grade 4 Social Studies

Students will focus on the geography and history of early North America from the Age of Exploration and colonial America to the American Revolution, and westward expansion up until the Civil War. Lessons employ the use of various historical thinking and close reading skills to investigate multiple sources of information, including primary sources to consider historical events from different perspectives of people at the time. Students will examine how the geographic location and environment of their state have influenced the state's economic, cultural, and civic heritage through project-based learning opportunities.

### Calvert Grade 5 Social Studies

In Social Studies, students will learn about the growth of the United States after the Civil War—through World War I, World War II, the Cold War, and into the modern era. Students will employ historical thinking skills and activities to investigate and analyze historic events, social and political changes, and economic changes, connecting the events of the past to their world today, including how their state contributed to major revolutions in thought, such as the Civil Rights Movement.

### Calvert Kindergarten Social Studies

This course introduces kindergarten students to America's historical figures, symbols, and holidays. In project-based units, students will explore globes and maps by making their very own treasure maps. Students will also explore the concept of jobs and money by writing a résumé that highlights their special talents.

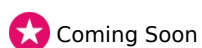
### Contemporary World History A/B

Contemporary World History is a yearlong course designed to strengthen learners' knowledge about the modern world. Multimedia tools, including custom videos, custom maps, and interactive timelines, will engage learners as they complete this course. Learners will explore the importance of geography, the influence of culture, and the relationship humans have with the physical environment. They will also focus on the responsibility of citizens, democracy in the United States, U.S. legal systems, and the U.S. economy. Ultimately, learners will complete this course as global citizens with an understanding of how to help and better their community and the world.

### Economics

This course covers basic economic problems such as scarcity, choice, and effective use of resources. It also covers topics on a larger scale such as market structures and international trade. It particularly focuses on the US economy and analyzes the role of the government and the Federal Reserve System.

### Economics (Apex)



Coming Soon



College Board® Advanced Placement® Approval



National Collegiate Athletic Association (NCAA)





Economics offers a tightly focused and scaffolded curriculum that provides an introduction to key economic principles. The course covers fundamental properties of economics, including an examination of markets from both historical and current perspectives; the basics of supply and demand; the theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; the concept of money and how it evolved; the roles of banks, investment houses, and the Federal Reserve; Keynesian economics; the productivity, wages, investment, and growth involved in capitalism; unemployment, inflation, and the national debt; and a survey of the global economy.

Economics is designed to fall in the fourth year of social studies instruction. Students establish mastery of key economic principles through a scaffolded series of analytic written assignments and lesson tests. They also apply basic mathematics to economic concepts.

This course is built to state standards and further informed by standards from the National Council for History Education, the National Center for History in the Schools, and the National Council for the Social Studies.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Economics and Personal Finance (Apex)**

Economics and Personal Finance offers a tightly focused and scaffolded curriculum that provides an introduction to key economic principles. The course covers fundamental properties of economics, including an examination of markets from both historical and current perspectives; the basics of supply and demand; the theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; the concept of money and how it evolved; the roles of banks, investment houses, and the Federal Reserve; Keynesian economics; the productivity, wages, investment, and growth involved in capitalism; unemployment, inflation, and the national debt; and a survey of the global economy. The course extends students' understanding of these principles in the context of personal finance, exploring issues such as career planning, budgeting, credit, taxes, investing, insurance, loans, and major purchases.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Ethnic Studies**

In one semester of five units, Ethnic Studies explores the history, culture, and experiences of different ethnic and racial groups. The course looks at the lives of Indigenous peoples, African Americans, Latin Americans, and Asian Americans and Pacific Islanders in the United States. By studying the experiences of people in these groups, you will develop a deeper understanding of their contributions, struggles, and achievements.

In this course, you will explore the effects of historical as well as current laws and policies. Many laws and policies have focused on specific groups of people based on race or ethnicity. You will learn about the ways in which ethnic groups have shaped and contributed to American society. You will also explore the obstacles groups have faced while working to gain citizenship and equality. And through discussion, research, and projects, you will learn how the impacts of race, ethnicity, and identity lead people to have very different lives.

### **Geography and World Cultures (Apex)**

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 and create maps, charts, and graphs.

Geography and World Cultures is designed to be the first course in the social studies sequence. It helps students develop note-taking skills, teaches analytic writing, and introduces students to the close examination of primary documents.

This course is built to state standards and informed by standards from the National Council for History Education, the National Center for History in the Schools, and the National Council for the Social Studies.

*This updated course was originally created for Apex Courses and is now available in Courseware.*



### High School Civics

National Civics is a one-semester course offering seven units that cover topics including the origins of American government, the structure and function of our government, rights and responsibilities of citizens, the American federal system, political parties and the election process, basic economic principles, and current matters regarding domestic and foreign policy. The course includes a variety of unit and lesson activities that examine the history, culture, and economy of the nation that encourage research and reflection. In these activities, students will examine seminal documents and landmark Supreme Court cases in American political history, analyze changes in federal and executive power over time, explore the political election process and data related to recent voting trends, research and propose a public policy plan, as well as compare and contrast the functions of the national government with state and local governments. The course also prepares students to pass the civics portion of the USCIS Naturalization Test.

### High School World History A/B

In World History, learners will explore historical world events with the help of innovative videos, timelines, and interactive maps and images. Learners will develop historical thinking skills and apply them to their study of European exploration, the Renaissance the Reformation, and major world revolutions. They will also study World War I, World War II, the Cold War, and the benefits and challenges of living in the modern world.

### High School World History A/B Honors

In World History, learners will explore historical world events with the help of innovative videos, timelines, and interactive maps and images. Learners will develop historical thinking skills and apply them to their study of European exploration, the Renaissance the Reformation, and major world revolutions. They will also study World War I, World War II, the Cold War, and the benefits and challenges of living in the modern world.

### MS Contemporary World History A/B

Middle School Contemporary World is informed by the College, Career, and Civic Life (C3) Framework for Social Studies State Standards and delivers instruction, practice, and review designed to build middle school students' knowledge of contemporary world geography, cultures, civics, and economics. By honing their ability to analyze the physical, social, and political forces that shape our world, students build the depth of knowledge and higher-order thinking skills required to demonstrate their mastery when put to the test. The two-semester course is arranged in themed units, each with three to six lessons. In each unit, activities make complex ideas about the modern world accessible through focused content, guided analysis, multimodal representations, and personalized feedback. Each lesson includes a variety of activities, such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content and demonstrate their learning through computer- and teacher-scored assignments.

This updated course was originally created for Apex Courses and is now available in Courseware.

### Middle School Civics A/B

Middle School Civics is informed by the College, Career, and Civic Life (C3) Framework for Social Studies State Standards and delivers instruction, practice, and review designed to build middle school students' understanding of the political and governmental systems of the United States and the roles played by citizens. By honing their ability to analyze civic life, political practices, and government structures, students build the depth of knowledge and higher-order thinking skills required to demonstrate their mastery when put to the test. The two-semester course is arranged in themed units, each with three to five lessons. In each unit, activities make complex ideas about civics accessible through focused content, guided analysis, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students



engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content and demonstrate their learning through computer- and teacher-scored assignments. This updated course was originally created for Apex Courses and is now available in Courseware.

### **Middle School U.S. History A/B**

Middle School U.S. History is informed by the College, Career, and Civic Life (C3) Framework for Social Studies State Standards and delivers instruction, practice, and review designed to build middle school students' knowledge of U.S. history, from the peopling of North America through the era of Reconstruction. By constantly honing their ability to analyze history, students build the depth of knowledge and higher-order thinking skills required to demonstrate their mastery when put to the test. The two-semester course is arranged in themed units, each with three to five lessons. In each unit, activities make complex ideas about U.S. history accessible through focused content, guided analysis, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content and demonstrate their learning through computer- and teacher-scored assignments.

This updated course was originally created for Apex Courses and is now available in Courseware.

### **Middle School World History A/B**

Middle School World History is informed by the College, Career, and Civic Life (C3) Framework for Social Studies State Standards and delivers instruction, practice, and review designed to build middle school students' knowledge of world history, from the Neolithic Revolution through the Middle Ages. By constantly honing their ability to analyze history, students build the depth of knowledge and higher-order thinking skills required to demonstrate their mastery when put to the test. The two-semester course is arranged in themed units, each with three to five lessons. In each unit, activities make complex ideas about world history accessible through focused content, guided analysis, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content and demonstrate their learning through computer- and teacher-scored assignments.

This updated course was originally created for Apex Courses and is now available in Courseware.

### **Modern World History from 1450 (Apex)**

In Modern World History from 1450, students study the major turning points that shaped the modern world, including the expansion of Islamic and Asian empires, transoceanic exploration, the Atlantic slave trade, the Enlightenment, industrialization, imperialism, nationalism, political revolutions, the world wars, the Cold War, decolonization, and globalization. By presenting content from multiple perspectives and through diverse primary and secondary source materials, this course not only provides students with a solid foundation in the history of the modern era, but also prepares them to be active and informed citizens of the world.

Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their ability to conduct research, analyze sources, make arguments, and take informed action. In written assignments, students address critical questions about the history of the modern era. In discussion activities, students respond to diverse opinions, take positions, and defend their own claims. Formative and summative assessments provide students — and teachers — with ample opportunities to check in, review, and evaluate students' progress in the course.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Modern World History from 1600 (Apex)**



In Modern World History from 1600, students study the major turning points that shaped the modern world, including the Enlightenment, industrialization, imperialism, nationalism, political revolutions, the world wars, the Cold War, decolonization, and globalization. By presenting content from multiple perspectives and through diverse primary and secondary source materials, this course provides students with a solid foundation in the history of the modern era and prepares them to be active and informed citizens of the world.

Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their ability to conduct research, analyze sources, make arguments, and take informed action. In written assignments, students address critical questions about the history of the modern era. In discussion activities, students respond to diverse opinions, take positions, and defend their own claims. Formative and summative assessments provide students — and teachers — with ample opportunities to check in, review, and evaluate students' progress in the course.

This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Pennsylvania U.S. History - Comprehensive A/B**

Pennsylvania U.S. History - Comprehensive is a two-semester course aligned to Pennsylvania's Academic Standards. The course promotes the examination, analysis, and evaluation of important people and events in the history of the United States of America. The course also uses investigative questions to guide the examination and analysis of events. The content of the course is designed to promote understanding of the impacts historical events had on the numerous groups of diverse people who make up the United States. Clarifying Big Ideas (CBI) Lessons appear throughout the course to model critical thinking skills and strategies. These skills and strategies are woven throughout the lessons to allow students to practice using the skills in context. Activities further promote critical thinking about historical figures and encourage learners to analyze factors that impacted the decisions these figures made to shape the growth and development of the United States. The activities have learners analyze and evaluate primary and secondary sources, and have them form opinions while using evidence to support their opinions.

### **Personal Financial Literacy (Apex)**

Personal Financial Literacy offers an engaging, scaffolded curriculum that introduces key topics and principles necessary to financial literacy. The one-semester course covers earning and spending; savings and investing; credit and debt; protection of assets; and financial planning and decision-making. Through real-life scenarios and hands-on activities, the course explores choosing among banking and investment options, shopping for an auto loan, choosing among career and college options, financing options for continuing education, planning for retirement, and creating and living within a budget. As a social studies course, Financial Literacy is designed to complement courses in Economics and Mathematics for Personal Finance.

This course is built to state standards and further informed by standards from the Council for Economic Education's National Standards for Financial Literacy and the Jump\$tart Coalition for Personal Financial Literacy's National Standards in K-12 Personal Finance Education.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **U.S. Government**

The interactive, problem-centered, and inquiry-based units in U.S. Government emphasize the acquisition, mastery, and processing of information. Semester A units include study of the foundations of American government and the American political culture, with units 2 and 3 covering the U.S. constitution, including its roots in Greek and English law, and the various institutions that impact American politics.

### **U.S. History A/B**





U.S. History v3.0 is a two-semester course aligned to the principles of the C3 Framework. The course promotes the examination, analysis, and evaluation of important people and events in the history of the United States of America. The course also uses investigative questions to guide the examination and analysis of events. The content of the course is designed to promote understanding of the impacts historical events had on the numerous groups of diverse people who make up the United States. Clarifying Big Ideas (CBI) Lessons appear throughout the course to model critical thinking skills and strategies. These skills and strategies are woven throughout the lessons to allow students to practice using the skills in context. Activities further promote critical thinking about historical figures and encourage learners to analyze factors that impacted the decisions these figures made to shape the growth and development of the United States. The activities have learners analyze and evaluate primary and secondary sources, and have them form opinions while using evidence to support their opinions.

### **US Government and Politics (Apex)**

In US Government and Politics, students examine the history, principles, and function of the political system established by the US Constitution. Starting with a basic introduction to the role of government in society and the philosophies at the heart of American democracy, this course provides students with the knowledge needed to be informed and empowered participants in the US political system.

Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their ability to conduct research, analyze sources, make arguments, and take informed action. In written assignments, students address critical questions about US politics and the roles of individual Americans in politics and political organizations. In discussion activities, students respond to political opinions, take a position, and defend their own claims. Formative and summative assessments provide students — and teachers — with ample opportunities to check in, review, and evaluate students' progress in the course. For Honors students, the course culminates with a multipart independent research project focused on a topic of their choice.

This course is built to state standards and informed by the College, Career, and Civil Life (C3) Framework for Social Studies State Standards and the National Standard for Civics and Government.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **US History (Apex)**

US 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.

This course is built to state standards and informed by the National Council for History Education, the National Center for History in the Schools, and the National Council for the Social Studies.

*This updated course was originally created for Apex Courses and is now available in Courseware.*



### US History Since the Civil War (Apex)

US History Since the Civil War traces the nation's history from the end of the Civil War to the present. It describes the emergence of the United States as an industrial nation, highlighting social policy as well as its role in modern world affairs.

Students evaluate the attempts to bind the nation together during Reconstruction while also exploring the growth of an industrial economy. 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 students step-by-step through problem-solving activities.

Honors students perfect their ability to use logic and evidence to create persuasive written arguments in five-paragraph essays, two independent research projects, and shorter exercises such as document-based questions and analytical discussions.

The course is built to state standards and standards from the National Council for History Education, the National Center for History in the Schools, and the National Council for the Social Studies.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### World Geography A/B

In an increasingly interconnected world, equipping students to develop a better understanding of our global neighbors is critical to ensuring that they are college and career ready. These semester-long courses empower students to increase their knowledge of the world in which they live and how its diverse geographies shape the international community. Semester A units begin with an overview of the physical world and the tools necessary to exploring it effectively. Subsequent units survey each continent and its physical characteristics and engage students and encourage them to develop a global perspective.

### World History (Apex)

In World History, students learn to see the world today as the product of a process that began thousands of years ago when humans became a speaking, traveling, and trading species. Through historical analysis grounded in primary sources, case studies, and research, students investigate the continuity and evolution 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 ability 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 positions of others while staking and defending their own claims. 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 built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### World History Survey A/B



In World History Survey, learners will study major historical events from early human societies through to the present day. Multimedia tools including custom videos as well as videos from the BBC, custom maps, and interactive timelines will help engage learners as they complete this year-long course. Topics of study include early civilizations, world religions, the Renaissance, the World Wars, and the globalized world of today.

## World Languages

### AP® Spanish A/B

Our online AP Spanish Language and Culture course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communicative skills. The AP Spanish Language and Culture course prepares students for the College Board's AP Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive and Presentational) as defined in the Standards for Foreign Language Learning in the 21st Century.

The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish.

\*NCAA Approved\*

### Chinese 1 A/B

Students begin their introduction to Chinese by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking, and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced after the first quarter.

Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations, and respond appropriately to basic conversational prompts, analyze, and compare cultural practices, products, and perspectives of various Chinese-speaking regions, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). \*NCAA Approved\*

### Chinese 2 A/B

Students continue their study of Chinese by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking, and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Character recognition and practice are a key focus of the course and students are expected to learn several characters each unit. However, pinyin is still presented with characters throughout the course to aid in listening and reading comprehension.

Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze, and compare cultural practices, products, and perspectives of various Chinese speaking regions, and take frequent assessments where their



language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

\*NCAA Approved\*

### French 1 A/B

In French 1A, they will be introduced to several common situations in which people communicate, such as exchanging names and greetings, describing people by physical and personality traits, and describing family members and aspects of their social life. They will start with basic sentence structures and grammatical tools, and they will communicate by listening, speaking, reading, and writing in French as they internalize new vocabulary and grammar. Students will also learn about some regions of the French-speaking world that the central characters of each unit are visiting. Students will build on this semester's work as they advance in their French studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning. In French 1B, students will be introduced to several common situations in which people describe how to earn, save, and manage money, modes of urban transportation, various seasons and the associated weather conditions, food, clothes, and activities. They will also describe various art forms, plays, concerts, and movies. Students will discuss health and well-being, and travel and tourism. They will build on what they learned in the French 1A course and communicate by listening, speaking, reading, and writing in French as they internalize new vocabulary and grammar. They will also learn about some regions of the French-speaking world that the central characters of each unit are visiting. Students will build on this semester's work as they advance in their French studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

### French 2 A/B

In French 2A, students will be reintroduced to French in common situations, beginning with describing classes, school friends, teachers, and school supplies. They will discuss different styles of dressing, housing, and neighborhoods, and learn about relationships between family members and friends, students and teachers, and employees and employer. Students will also describe daily personal routines and schedules, household chores, and family responsibilities. Finally, they will discuss different types of cuisine, dining establishments, and dining etiquette. Students will build on what they learned in the French 1B course to communicate by listening, speaking, reading, and writing in French as they internalize new vocabulary and grammar. They will also learn about some regions of the French-speaking world where the central characters of each unit are visiting. Students will build on this semester's work as they advance in their French studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning. In French 2B, students will be reintroduced to French in common situations, beginning with various professions and career plans for the future. They will discuss traveling to different regions and the flora and fauna found in each region and describe different types of trips, including road trips, camping, and ecotourism. Students will also describe different hobbies, activities, and crafts that people enjoy. Finally, they will discuss about different medical specialists, including dentists and veterinarians, and describe symptoms related to illness and injury. Students will build on what they learned in the French 2A course to communicate by listening, speaking, reading, and writing in French as they internalize new vocabulary and grammar. They will also learn about some regions of the French-speaking world where the central characters of each unit are visiting. Students will build on this semester's work as they advance in their French studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

### German 1 A/B

In German 1A, students will be introduced to several common situations in which people communicate, such as exchanging names and greetings, describing people by physical and personality traits, and describing family members and aspects of their social life. They will start with basic sentence structures and grammatical tools,





and they will communicate by listening, speaking, reading, and writing in German as they internalize new vocabulary and grammar. Students will also learn about some regions of the German-speaking world that the central characters of each unit are visiting. They will build on this semester's work as they advance in their German studies: everything that students learn about a language and the cultures in which it is spoken will serve as a foundation for further learning. In German 1B, students will be introduced to several common situations in which people describe how to earn, save, and manage money, modes of urban transportation, various seasons and the associated weather conditions, food, clothes, and activities. They will also describe various art forms, plays, concerts, and movies. Students will discuss health and well-being, and travel and tourism. They will build on what they have learned in the German 1A course to communicate by listening, speaking, reading, and writing in German as they internalize new vocabulary and grammar. They will also learn about some regions of the German-speaking world that the central characters of each unit are visiting. Students will build on this semester's work as they advance in their German studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

### German 2 A/B

In German 2A, students will be reintroduced to German in common situations, beginning with describing classes, school friends, teachers, and school supplies. They will discuss different styles of dressing, housing and neighborhoods, and learn about relationships between family members and friends, students and teachers, and employees and employer. They will also describe daily personal routines and schedules, household chores, and family responsibilities. Finally, students will discuss different types of cuisine, dining establishments, and dining etiquette. They will build on what they learned in the German 1B course to communicate by listening, speaking, reading, and writing in German as they internalize new vocabulary and grammar. Students will also learn about some regions of the German-speaking world where the central characters of each unit are visiting. Students will build on this semester's work as they advance in their German studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning. In German 2B, students will be reintroduced to German in common situations, beginning with various professions and career plans for the future. They will discuss traveling to various regions and the flora and fauna found in each region and describe types of trips, including road trips, camping, and ecotourism. They will also describe hobbies, activities, and crafts that people enjoy. Finally, students will discuss medical specialists, including dentists and veterinarians, and symptoms related to illness and injury. They will build on what they learned in the German 2A course to communicate by listening, speaking, reading, and writing in German as they internalize new vocabulary and grammar. They will also learn about some regions of the German-speaking world where the central characters of each unit are visiting. Students will build on this semester's work as they advance in their German studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

### Spanish 1 A/B

In Spanish 1A, students will be introduced to several common situations in which people communicate, such as exchanging names and greetings, describing people by physical and personality traits, and describing family members and aspects of social life. Students will start with basic sentence structures and grammatical tools, and they will learn to communicate by listening, speaking, reading, and writing in Spanish as they learn new vocabulary and grammar. They will also learn about some regions of the Spanish-speaking world that the central characters of each unit are visiting. In Spanish 1B, students will be introduced to several common situations in which people describe how to earn, save, and manage money, modes of urban transportation, various seasons and the associated weather conditions, food, clothes, and activities. They will also describe various art forms, plays, concerts, and movies. Students will discuss health and well-being and travel and tourism. They will build on what they learned in the Spanish 1B course to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. Students will also learn about some regions of the



Spanish-speaking world that the central characters of each unit are visiting. They will build on this semester's work as they advance in their Spanish studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

### Spanish 2 A/B

In Spanish 2A, students will be reintroduced to Spanish in common situations, beginning with describing classes, school friends, teachers, and school supplies. Students will discuss different styles of dressing, housing, and neighborhoods, and learn about relationships between family members and friends, students and teachers, and employees and employer. They will also describe daily personal routines and schedules, household chores, and family responsibilities. Finally, students will discuss different types of cuisine, dining establishments, and dining etiquette. They will build on what you learned in Spanish 1B to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. Students will also learn about some regions of the Spanish-speaking world where the central characters of each unit are visiting. They will build on this semester's work as they advance in their Spanish studies: everything that students learn about a language and the cultures in which it is spoken will serve as a foundation for further learning. In Spanish 2B, students are reintroduced to Spanish in common situations, beginning with various professions and career plans for the future. They will discuss traveling to different regions and the flora and fauna found in each region and describe different types of trips, including road trips, camping, and ecotourism. They will also describe different hobbies, activities, and crafts that people enjoy. Finally, students will discuss about different medical specialists, including dentists and veterinarians, and describe symptoms related to illness and injury. They will build on what they have learned in the Spanish 2A course to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. Students will also learn about some regions of the Spanish-speaking world where the central characters of each unit are visiting. They will build on this semester's work as they advance in their Spanish studies: everything that students learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

### Spanish 3 A/B

In Spanish 3A, students will be reintroduced to Spanish in common situations, beginning with various daily routines, describing friends and family, childhood memories and activities, and childhood hopes and aspirations. They will discuss and describe art, such as paintings and sculptures, and literature, such as novels and novellas, and give reactions and form opinions about art and literature. Students will also understand the process of selecting and applying to a university, aspirations at the university, and dealing with leaving home and moving into a dormitory. Further, students will describe university life and expectations from the university experience. They will explore the dynamics and challenges of multiethnic and developing societies, environmental and social issues, causes and possible resolutions, and learning about unfamiliar countries using technology. Finally, they will discuss current events reported in the media, different types of classified and other types of advertisement in the media (both print and online), the sections and supplements of a newspaper or magazine, and various jobs available in the media. Students will build on what they learned in Spanish 2 to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. They will also learn about some regions of the Spanish-speaking world where the central characters of each unit are visiting. Students will build on this semester's work as they advance in their Spanish studies: everything that students learn about a language and the cultures in which it is spoken will serve as a foundation for further learning. In Spanish 3B, students will be reintroduced to Spanish in a variety of situations, beginning with multiculturalism, bilingualism, cultural influences on traditions, customs, food, and social experiences, and legends and folklore from different cultures. Students will discuss and describe genres of music, poetry, drama, and short stories, and proverbs from different cultures. They will also explore how geographical features affect the weather, and how the geography and weather affect the clothing, food, and livelihoods of the local population. Students will also understand the history of Venezuela and how the Spanish conquerors and



indigenous people shaped the culture of the country, and they will learn about the South American independence movement, including some significant freedom fighters and their struggles to win independence. They will also discuss religions practiced in Argentina, the cultural icons of the country and how they compare to cultural icons from other countries, sports and activities in Argentina, some national symbols, such as the gauchos, and idioms and sayings from Argentina. Finally, students will discuss types of wildlife and natural and agricultural resources found in Costa Rica, the human resources of the country that help overcome economic and natural disasters, and how to write formal and informal letters to share experiences. They will build on what they learned in Spanish 3A to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. Students will also learn about some regions of the Spanish-speaking world where the central characters of each unit are visiting. They will build on this semester's work as they advance in their Spanish studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

## Electives

### Academic Success

As in other areas of life, success in academics results from learning and practicing positive habits. This one-semester elective provides practical, hands-on guidance on developing and improving study habits and skills, regardless of a student's level of accomplishment. Academic Success includes five lessons and two course activities in a flexible structure that is adaptable to the needs and circumstances of individual students. The course can also be used for college-level developmental education.

### Art Appreciation (Apex)

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 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 who 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.

This course is built to state standards and informed by the Consortium of National Arts Education Associations standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Art History and Appreciation

This course explores the main concepts of art, expression, and creativity as it helps students answer questions such as what is art; what is creativity; and how and why people respond to art. It covers essential design principles such as emphasis, balance, and unity. Units include: Art, History, and Culture; Western and World Art Appreciation; and Art and the Modern World.

### Artificial Intelligence

This one-semester course is focused on the history, applications, and innovations of artificial intelligence. Students will learn about intelligence agents, problem solving using search algorithms, knowledge representation, and reasoning in artificial intelligence. Students will also learn about the basic concepts of machine learning and natural language processing (NLP). Students will also learn about expert systems,



computer vision and robotics. This 12-lesson course also covers ethics and safety related to artificial intelligence. Online discussions and course activities require students to develop and apply critical thinking skills, while the included games appeal to a variety of learning styles and keep students engaged.

### **Business and Information Technology A/B**

Business and Information Technology focuses on building a solid foundation of business and information technology knowledge. Topics include entrepreneurship, marketing, product design, digital citizenship, and computer basics. In addition, the course explains how to create a personal profile by evaluating personal values, interests, and aptitudes. It also explains how to create a career plan. Finally, it covers how to create an electronic portfolio and conduct a job search in a specific area of interest within the business and information technology industries.

Lesson Activities, Unit Activities, and a Course Activity help students develop and apply durable skills such as critical thinking, written communication skills, and creativity. A Course Project focuses on helping students develop additional durable skills such as goal setting, planning, and entrepreneurship. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Calvert Grade 2 Art and Picture Study**

Art and Picture Study 2 explores drawing techniques, perspective, and color theory and includes discussion and analysis of famous works of art to encourage student appreciation.

### **Calvert Grade 3 Art and Picture Study**

This course guides students to explore and practice drawing skills using lines, light sources, and motion when discussing and analyzing famous works of art. Course content subject to change.

### **Calvert Grade 4 Art and Picture Study**

In Art and Picture Study, students will explore drawing skills using perspective and color theory. Picture study includes the discussion and analysis of famous works of art. Course content subject to change.

### **Calvert Grade 5 Art & Art History**

In this course, students will explore contour, naturalism, and linear perspectives. In addition, students will study paintings throughout history, from cave paintings to modern masterpieces. Students will learn about movements and individuals who have made their mark on the art of painting. Course content subject to change.

### **College and Career Preparation I (Apex)**

High school students have many questions about the college application process, what it takes to be a successful college student, and how to begin thinking about their careers.

In College and Career Preparation I, students obtain a deeper understanding of what it means to be ready for college. Students are informed about the importance of high school performance in college admissions and how to prepare for college testing. They know the types of schools and degrees they may choose to pursue after high school and gain wide exposure to the financial resources available that make college attainable.

Career readiness is also a focus. Students connect the link between interests, college majors, and future careers by analyzing career clusters. Students come away from this course understanding how smart preparation and skill development in high school can lead into expansive career opportunities after they have completed their education and are ready for the working world.

Students who complete College and Career Preparation I have the basic skills and foundation of knowledge to progress into College and Career Preparation II, the capstone course that provides hands-on information about the transition from high school to college and career.

This course is built to the American School Counselors Association National Standards for school counseling programs.





*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **College and Career Preparation II (Apex)**

High school students have many questions about the college application process, what it takes to be a successful college student, and how to begin thinking about their careers.

College and Career Preparation II builds on the lessons and skills in College and Career Preparation I. The course provides a step-by-step guide to choosing a college. It walks students through the process of filling out an application, including opportunities to practice, and takes an in-depth look at the various college-admission tests and assessments, as well as financial aid options.

College and Career Preparation II also instructs students in interviewing techniques and provides career guidance. Students explore valuable opportunities such as job shadowing and internships when preparing for a career.

Students who complete this course obtain a deeper understanding of college and career readiness through informative, interactive critical thinking and analysis activities while sharpening their time management, organization, and learning skills that they learned in College and Career Preparation I.

College and Career Preparation II prepares students with the knowledge and skills to be successful in college and beyond. This course is built to the American School Counselors Association National Standards for school counseling programs.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Communication Applications**

Communication Applications is a one-semester course that teaches students how to become effective at verbal and nonverbal expression. In a rapidly changing world filled with constantly evolving technology, social media, and social networking, students need skills to send clear verbal and nonverbal messages and adapt those messages to multiple contexts. Students need to prepare to identify, analyze, develop, and evaluate communication skills in personal, academic, and professional interactions.

Major topics in Communication Applications include intrapersonal and interpersonal interaction, informal communication and interviewing, and preparing and delivering informal, informational, and persuasive addresses. Students also engage in recognizing bias, elements of ethical communication, conflict resolution, evaluating media messages, group dynamics, and participate in peer review.

*This course was originally created for Apex Courses.*

### **Creative Writing**

Creative Writing is designed to get students to pursue creative writing as a vocation or as a hobby. To that purpose, it exposes them to different genres and techniques of creative writing and the key elements (such as plot and characterization in fiction) in each genre. Great creative writing doesn't come merely by reading about the craft—one also needs ideas; a process for planning, drafting and revising; and the opportunity to experiment with different forms and genres. The lessons in this course familiarize students with the basic structure and elements of different types or genres of writing.

### **Creative Writing (Apex)**

Creative Writing is an English elective course that focuses on the exploration of short fiction and poetry, culminating in a written portfolio that includes one revised short story and three to five polished poems. Students draft, revise, and polish fiction and poetry through writing exercises, developing familiarity with literary terms and facility with the writing process as they study elements of creative writing.

Elements of fiction writing explored in this course include attention to specific detail, observation, character development, setting, plot, and point of view. In the poetry units, students learn about the use of sensory details and imagery, figurative language, and sound devices including rhyme, rhythm, and alliteration. They also explore poetic forms ranging from found poems and slam poetry to traditional sonnets and villanelles.



In addition to applying literary craft elements in guided creative writing exercises, students engage in critical reading activities designed to emphasize the writing craft of a diverse group of authors. Students study short stories by authors such as Bharati Mukherjee and Edgar Allan Poe, learning how to create believable characters and develop setting and plot. Likewise, students read poetry by canonical greats such as W. B. Yeats and Emily Dickinson as well as contemporary writers such as Pablo Neruda, Sherman Alexie, and Alice Notley. Studying the writing technique of a range of authors provides students with models and inspiration as they develop their own voices and refine their understanding of the literary craft.

By taking the Creative Writing course, students find new approaches to reading and writing that can affect them on a personal level, as the skills they gain in each lesson directly benefit their own creative goals. Students who are already actively engaged writers and readers learn additional tools and insight into the craft of writing to help them further hone their skills and encourage their creative as well as academic growth.

This course is built to state standards and informed by the National Council of Teachers of English (NCTE) standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Digital Citizenship A/B**

Digital Citizenship focuses on the foundations of using computers, keyboarding, and being a responsible digital user. Topics include digital safety, computing devices, online communication, and digital wellness. Students will explore digital etiquette, the issue of cyberbullying, and how to use technology and social media positively, safely, legally, and ethically. The course also delves into a computer's hardware and software components and explains how to troubleshoot common issues. It highlights the importance of finding life balance in a digital world. Finally, students practice using word processing software, spreadsheets, and presentation media in efficient and responsible ways.

Lesson Activities, Unit Activities, and a Course Activity help students develop and apply durable skills such as intellectual curiosity, resourcefulness, and social media skills, communication, and creativity. A Course Project focuses on helping students develop additional durable skills such as creative problem-solving, brainstorming, and improving social skills. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Engineering and Technology A/B**

Engineering and Technology focuses on the fundamental concepts of engineering and technology. This course covers important inventions and innovations in engineering and technology, engineering's contributions to society, and how fields such as science, mathematics, and technology influence engineering. The course also explores the technologies, principles, and safety considerations in various engineering and technology career areas. It covers how to create models or prototypes of manufacturing, construction, biotechnology, power, and communication systems. Finally, students explore career areas in the engineering and technology industries and learn what skills and education are required for various career options.

Lesson Activities, Unit Activities, and a Course Activity help students develop and apply durable skills such as investigation, innovation, and verbal communication skills. A Course Project focuses on helping students develop additional durable skills such as problem solving, being detail oriented, and critical thinking. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Environmental Science A/B**

Environmental Science is designed to introduce students to the main concepts of environmental science. It will help students gain knowledge of the natural processes that occur in nature and understand their importance



and relevance. Students will also gain awareness of some of the environmental issues and challenges we face in the world today, such as land use and management, wildlife conservation, resource and waste management, and the different kinds of pollution. Finally, students will learn about energy sources and production, sustainable development, and environmental policies.

### **Exploring Agriculture and Business A/B**

Exploring Agriculture Science and Business introduces students to agriculture and its role and impact on society. Students learn about food sources, nutrition, food contamination, and food safety principles. They learn about plant structure, plant reproduction, and growth. They also learn about different species and characteristics of livestock and natural resource management. Students explore career opportunities in agriculture science and agribusiness and the durable skills that can influence success in these careers. Finally, students learn about the tools and technologies used in agriculture science and business.

Lesson Activities, Unit Activities, and a Course Activity help students develop and apply durable skills such as organizational skills, professionalism, and constructive feedback. A Course Project focuses on helping students develop additional durable skills such as engaging in research, critical thinking, and ideation. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Exploring College and Careers A/B**

Exploring College and Careers focuses on personal and career assessment, exploration of career opportunities, academic planning, and financial planning. The course begins with an introduction to self-exploration and explains how to identify aptitudes, interests, skills, values, beliefs, and strengths. It discusses how to interpret self-assessment data to create an initial career and education plan. It delves into how to develop long-term, mid-term, and short-term goals. The course then explores jobs, occupations, and careers in 16 career clusters. It provides insights into the educational requirements and skills necessary for different professions. The course compares postsecondary educational options such as trade or technical schools, apprenticeships, community colleges, the military, and two- and four-year colleges and universities.

Lesson Activities, Unit Activities, and a Course Activity help students develop and apply durable skills such as analytical thinking, data analysis, and organizational skills. A Course Project focuses on helping students develop additional durable skills such as planning, goal setting, and doing research. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Exploring Health Sciences A/B**

Exploring Health Sciences focuses on exploring health science careers. In this course, students will explore various career options in health care, such as biotechnology research, health informatics, and therapeutic, support, and diagnostic services. They will learn about the educational qualifications and skills required for a career in health care. They will analyze the evolution of health care in the United States and how it has affected care. They will compare the different areas of health care such as primary care, mental health, public health, pharmaceuticals, and medical devices. Students will also discover the foundational health care skills that will help them be successful in a variety of health careers.

Lesson Activities, Unit Activities, and a Course Activity help students develop and apply durable skills such as presentation skills, creativity, and a growth mindset. A Course Project focuses on helping students develop additional durable skills such as collaboration, teamwork, and reliability. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.



### **Gothic Literature**

Gothic Literature is a one-semester course intended to familiarize students with the different conventions, themes, and elements of Gothic literature through the analysis of representative literary works. Students will discuss classics such as Mary Shelley's novel *Frankenstein*, Ann Radcliffe's novel, *A Sicilian Romance*, Nathaniel Hawthorne's novel, *The Scarlet Letter*, Robert Louis Stevenson's Gothic novella, *The Strange Case of Dr. Jekyll and Mr. Hyde*, and Bram Stoker's *Dracula*. Students will also analyze Edgar Allan Poe's Gothic short stories, Robert Browning's Gothic poems, and Emily Dickinson's poems about death, mortality, and spirituality. Finally, students will get a glimpse of Matthew Lewis and Percy Bysshe Shelley's Gothic dramas; learn about Gothic parodies and Gothic subgenres; and discuss contemporary Gothic literature.

### **Holocaust Studies**

Holocaust Studies is a one-semester course that describes the tragic mass murder of millions of Jews during the Nazi rule in Germany and its impact on the international community. In this course, students will trace the history of Jews living in Europe and the origins of anti-Semitism. Students will learn about the early life of Adolf Hitler and his rise to power. The course also describes how the Nazis exterminated the Jews and how the Jews resisted. Students will also learn about the liberation of the Jews and the impact of the Holocaust on the non-Jewish community. The course also covers the outcome of postwar trials.

### **Introduction to Anthropology**

Introduction to Anthropology is a one-semester course that introduces students to the field of anthropology. Students will explore the evolution of anthropology as a distinct discipline; learn about anthropological terms, concepts and theories; and discuss the evolution of humans and human society and culture. Students will also learn about social institutions, such as marriage, economy, religion, and polity. The target audience for this course is high school students.

### **Introduction to Archaeology**

Introduction to Archaeology is a one-semester course that introduces students to the work and techniques involved in archaeology, and the career prospects of an archaeologist. This course covers subject areas such as the history of modern archaeology; discoveries in archaeology; careers in archaeology; research techniques; evidence; site excavation; and many more.

### **Introduction to Philosophy**

Introduction to Philosophy provides students an introduction to the field of philosophy and its great, timeless questions. This one-semester course is intended as a practical guide to help students understand the subject matter of philosophy, its main branches, and the major ideas and issues discussed in each branch. Students will explore the origin and evolution of philosophy as a discipline and learn about the times, lives, and intellectual contributions of essential philosophers.

### **Introduction to Visual Arts**

Introduction to Visual Arts is designed to enable all students at the high school level to familiarize themselves with different types of visual arts. Students will trace the history of art, describe various art forms, and identify the elements of art. After examining the principles of design, students will delve into the parameters involved in evaluating and critiquing art.

### **Introduction to World Religions**

Introduction to World Religions is a one-semester course that familiarizes students with the origins, history, beliefs, and practices of various prominent world religions, primal religions, and contemporary religious movements. The target audience for this course is high school students. This course covers primal religious traditions, Hinduism, Buddhism, Jainism, Sikhism, Zoroastrianism, Judaism, Christianity, Islam, Confucianism, Taoism, and Shinto and contemporary religious movements.





## Music Appreciation

In a time of an increasing emphasis on STEM courses and skills, it remains essential to provide your students with opportunities to explore the arts from both an informational and career-oriented perspective. In Music Appreciation, students will explore the history and evolution of music, learn the elements of music and musical notations, and the contributions of popular music artists and composers. A variety of lessons, activities, and discussions will help to develop an awareness and appreciation of music that will develop not only critical thinking skills, but life enriching skills as well.

### Music Appreciation (Apex)

Music Appreciation introduces students to the history, theory, and genres of music, from the most ancient surviving examples 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 and classical music. The second semester presents rich modern traditions, including American jazz, 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 global society and the internet bring musical forms from around the world together in new ways.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Mythology and Folklore

Mythology and Folklore is a one-semester course that introduces students to myths, legends, and folklore from around the world. In this course, students will describe myths related to the creation of the world, the natural elements, and the destruction of the world. Students will identify the main characters of various dynastic dramas, love myths, and epic legends and describe their journeys. Finally, students will trace the evolution of folklore and describe folktales from around the world.

### Personal Communication (Apex)

Personal Communication is a one-semester course that teaches students how to become effective at verbal and nonverbal expression. In a rapidly changing world filled with constantly evolving technology, social media, and social networking, students need skills to send clear verbal and nonverbal messages and adapt those messages to multiple contexts. Students need to prepare to identify, analyze, develop, and evaluate communication skills in personal, academic, and professional interactions.

Major topics in Personal Communication include intrapersonal and interpersonal interaction, informal communication and interviewing, and the preparation and delivery of informal, informational, and persuasive addresses. Students also engage in recognizing bias, resolving conflicts, and evaluating media messages; gain an understanding of elements of ethical communication and group dynamics; and participate in peer review.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Psychology (Apex)

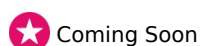
Psychology provides a solid overview of the field's major domains: methods, biopsychology, cognitive and developmental psychology, and variations in individual and group behavior.

By focusing on significant scientific research and on the questions that are most important to psychologists, students see psychology as an evolving science. Each topic clusters around challenge questions, such as "What is happiness?" Students answer these questions before, during, and after they interact with direct instruction.

This course is built to state standards and informed by the American Psychological Association's National Standards for High School Psychology Curricula. The teaching methods draw from the National Science Teachers Association (NSTA) teaching standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### Sociology (Apex)



Coming Soon



College Board® Advanced Placement® Approval



National Collegiate Athletic Association (NCAA)



Sociology examines why people think and behave as they do in relationships, groups, institutions, and societies.

Major course topics include individual and group identity, social structures and institutions, social change, social stratification, social dynamics in recent and current events, the effects of social change on individuals, and the research methods used by social scientists.

In online discussions and polls, students reflect critically on their own experiences and ideas, as well as on the ideas of sociologists. Interactive multimedia activities include personal and historical accounts to which students can respond, using methods of inquiry from sociology. Written assignments provide opportunities to practice and develop skills in thinking and communicating about human relationships, individual and group identity, and all other major course topics.

This course is built to state standards and the National Council for the Social Studies (NCSS) Expectations of Excellence: Curriculum Standards for Social Studies.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Structure of Writing**

This semester-long course focuses on building good sentences. Students will learn how to put words, phrases, and clauses together and how to punctuate correctly. They will start using sentences in short compositions. As an extra bonus, students will add some new words to their vocabulary, and they will practice spelling difficult words. Near the end of the course, students are to submit a book report. Early in the course, encourage students to start looking for the books they want to read for the book report. They might also preview the introduction to that lesson so they know what will be expected.

### **Women's Studies**

Women's Studies is a one-semester course that introduces students to women's studies, gender studies, and gender roles. The course traces the history of feminism, analyzes feminist theories, and examines intersectionality. Students will learn about social and political movements for the rights of women and other vulnerable groups. Students will also learn about social and family structures and socialization, which include identifying prejudices, biases, and stereotypes that exist in society and how the media perpetuates some stereotypes about gender roles and identities. The course also covers different forms of oppression, ways to prevent oppression, and methods to help and empower victims. Students will learn about international activism for gender equality, legal rights, and the challenges in achieving equality for all citizens from every section of society. The course combines a variety of content types, including lessons, activities, and discussions to engage learners as they discover the significance of women's studies.

## **Health, Fitness & Physical Education**

### **Adaptive Physical Education**

This course is designed specifically for students with physical limitations. The content is similar to Fitness Fundamentals 1, but additional modification resources are provided to allow for customized exercise requirements based on a student's situation. In addition, students learn the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students research the benefits of physical activity, as well as the techniques, components, principles, and guidelines of exercise to keep them safe and healthy.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Advanced Physical Education 1**

This course guides students through an in-depth examination of the effects of exercise on the body. Students learn how to exercise efficiently and properly, while participating in physical activities and applying principles they've learned. Basic anatomy, biomechanics, physiology, and sports nutrition are all integral parts of this



course. Throughout this course students participate in a weekly fitness program involving elements of cardio, strength, and flexibility.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Advanced Physical Education 2**

This course gives the student an in-depth view of physical fitness by studying subjects such as: biomechanics, nutrition, exercise programming, and exercise psychology. Students will apply what they learn by participating in a more challenging exercise requirement. Throughout this course students participate in a weekly fitness program involving elements of cardio, strength, and flexibility.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Anatomy**

In this course students will explore the anatomy or structure of the human body. In addition to learning anatomical terminology, students will study and the main systems of the body- including integumentary, skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. In addition to identifying the bones, muscles, and organs, students will study the structure of cells and tissues within the body.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Calvert Grade 1 Health**

Calvert Health for Grade 1 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

### **Calvert Grade 1 Physical Education**

Calvert Physical Education for Grade 1 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

### **Calvert Grade 2 Physical Education**

Calvert Physical Education for Grade 2 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

### **Calvert Grade 3 Physical Education**

Calvert Physical Education for Grade 3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

### **Calvert Grade 4 Physical Education**

Calvert Physical Education for Grade 4 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition,



students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

### **Calvert Grade 5 Physical Education**

Calvert Physical Education for Grade 5 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

### **Calvert Grade K Health**

Calvert Health for Kindergarten helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

### **Calvert Grade K Physical Education**

Calvert Physical Education for Kindergarten K helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork.

### **Comprehensive Physical Education**

In this course students will explore concepts involving personal fitness, team sports, dual sports, and individual and lifetime sports. Students will focus on health-related fitness as they set goals and develop a program to improve their fitness level through cardio, strength, and flexibility training. In addition, they will learn about biomechanics and movement concepts, as they enhance their level of skill-related fitness. Students will learn about game play concepts and specifically investigate the rules, guidelines, and skills pertaining to soccer, softball, volleyball, tennis, walking and running, dance, and yoga. Throughout this course students will also participate in a weekly fitness program involving elements of cardio, strength, and flexibility training.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Drugs & Alcohol**

This course delves into the types and effects of drugs, including alcohol, tobacco, steroids, over the counter drugs, marijuana, barbiturates, stimulants, narcotics, and hallucinogens. Students learn about the physiological and psychological effects of drugs, as well as the rules, laws, and regulations surrounding them. The difference between appropriate and inappropriate drug use will also be discussed. In addition, students will learn about coping strategies, healthy behaviors, and refusal skills to help them avoid and prevent substance abuse, as well as available resources where they can seek help.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Exercise Science**

This course takes an in-depth examination of the effects of exercise on the body. Through this course, students will learn basic anatomy, biomechanics, and physiology, as well as proper principles and techniques to designing an effective exercise program. The study of nutrition and human behavior will also be integrated into the course to enhance the students' comprehension of this multifaceted subject.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Family & Consumer Science**

Family & Consumer Science prepares students with a variety of skills for independent or family living. Topics covered include child care, home maintenance, food preparation, money management, medical management,





clothing care, and more. They also focus on household, personal, and consumer health and safety. In addition, students learn goal setting and decision-making skills, as well as explore possible career options.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Family Living & Healthy Relationships**

In this course, students examine the family unit and characteristics of healthy and unhealthy relationships at different phases of life-- including information on self- discovery, family, friendships, dating and abstinence, marriage, pregnancy, and parenthood. Students learn about the life cycle and the different stages of development from infancy to adulthood. They also focus on a variety of skills to improve relationships and family living, including coping skills, communication skills, refusal skills, babysitting, parenting, and healthy living and disease prevention habits.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **First Aid & Safety**

In this course, students learn and practice first aid procedures for a variety of common conditions, including muscular, skeletal, and soft tissue injuries. In addition, students learn how to appropriately respond to a variety of emergency situations. They also learn the procedures for choking and CPR for infants, children, and adults. In addition to emergency response, students will explore personal, household, and outdoor safety, and disaster preparedness.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Fitness Basics 1**

This course provides students with a basic understanding of fitness and nutrition. Students will learn about exercise safety, team and individual sports, nutrition, and the importance of staying active throughout their lifetime. Students conduct fitness assessments, set goals, develop their own fitness program, and participate in weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Fitness Basics 2**

This course provides students with a basic understanding of fitness and nutrition. Students will learn about exercise safety, team and individual sports, nutrition, and the importance of staying active throughout their lifetime. Students conduct fitness assessments and participate in weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Flexibility Training**

This course focuses on the often-neglected fitness component of flexibility. Students establish their fitness level, set goals, and design their own flexibility training program. They study muscular anatomy and learn specific exercises to stretch each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles to flexibility training. This course explores aspects of static, isometric, and dynamic stretching, as well as touch on aspects of yoga and Pilates. This course also discusses good nutrition and effective cross-training. Students take a pre- and post fitness assessment. Throughout this course students also participate in a weekly fitness program involving flexibility training, as well as elements of cardio and strength training.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Group Sports**

This course provides students with an overview of group sports. Students learn about a variety of sports, yet do an in-depth study of soccer, basketball, baseball/softball, and volleyball. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to each sport. Students also learn about sportsmanship and teamwork. In addition, students study elements of personal fitness, goal setting, sport



safety, and sports nutrition. Students conduct fitness assessments and participate in regular weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **HOPE (Health Opportunities through Physical Education) 1**

This comprehensive health and PE course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students will analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students will apply principles of health and wellness to their own lives. In addition, they will study behavior change and set goals to work on throughout the course. Other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **HOPE (Health Opportunities through Physical Education) 2**

This comprehensive health and PE course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students will analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students will apply principles of health and wellness to their own lives. In addition, they will study behavior change and set goals to work on throughout the course. Other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Health**

This course is based on a rigorously researched scope and sequence that covers the essential concepts of health. Students are provided with a variety of health concepts and demonstrate their understanding of those concepts through problem solving. The five units explore a wide variety of topics that include nutrition and fitness, disease and injury, development and sexuality, substance abuse, and mental and community health.

### **Health & Personal Wellness**

This comprehensive health course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students will analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students will apply principles of health and wellness to their own lives. In addition, they will study behavior change and set goals to work on throughout the semester. Other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Health 2** ★

#### **Health Careers**

In this course, students explore a variety of career options related to the health care field, including medicine, nursing, physical therapy, pharmacy, dental careers, sports medicine, personal training, social work, psychology, and more. Students will learn about various options within each field, what each of these jobs entails, and the education and knowledge required to be successful. In addition, they will focus on basic job skills and information that would aid them in health care and other career paths.

*This course is provided by Carone Learning, through partnership with Edmentum.*

#### **Intro to Coaching**

This course focuses on the various responsibilities of a coach and the skills needed to successfully fill this important position. Throughout the course, students will explore various coaching models and leadership styles, sports nutrition and sports psychology, as well as safety, conditioning, and cross-training. Students will learn effective communication, problem-solving, and decision making skills. The course will also introduce students to game strategy, tactical strategy, skills-based training, and coaching ethics.

*This course is provided by Carone Learning, through partnership with Edmentum.*

**Intro to Group Sports 1**

This course provides students with an overview of group sports. Students learn about a variety of sports, and an in-depth study of soccer or basketball. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to each sport. Students also learn about game strategy and the benefits of sports. In addition, students study elements of personal fitness, goal setting, sport safety, and sports nutrition. Students conduct a pre- and post-fitness assessment, as well as participate in regular weekly physical activity. *This course is provided by Carone Learning, through partnership with Edmentum.*

**Intro to Group Sports 2**

This course provides students with an overview of group sports. Students learn about a variety of sports and do an in-depth study of baseball/softball, and volleyball. Students learn the history, rules, and guidelines of each sport, as well as practice specific skills related to each sport. Students also learn about sportsmanship and teamwork. In addition, students study elements of personal fitness, goal setting, sport safety, and sports nutrition. Students conduct a pre- and post-fitness assessment, as well as participate in regular weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

**Intro to Individual Sports 1**

This course provides students with an overview of individual sports. Students learn about a variety of sports, yet do an in-depth study of running, walking, strength training, yoga, Pilates, dance, water sports, and cross-training. Students learn the history, rules, and guidelines of each sport, and practice specific skills related to each sport. Students also learn about the components of fitness, FITT principles, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments and participate in weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

**Intro to Individual Sports 2**

This course provides students with an overview of individual sports. Students learn about a variety of sports, yet do an in-depth study of running, walking, strength training, yoga, Pilates, dance, water sports, and cross-training. Students learn the history, rules, and guidelines of each sport, and practice specific skills related to each sport. Students also learn about the components of fitness, FITT principles, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments and participate in weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

**Intro to Nursing 1**

This two semester course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing theories, as well as focus on the nursing process, including assessment, diagnosis, and treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, crisis management will be included.

*This course is provided by Carone Learning, through partnership with Edmentum.*

**Intro to Nursing 2**

This two semester course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing theories, as well as focus on the nursing process, including assessment, diagnosis, and



treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, and crisis management will be included. *This course is provided by Carone Learning, through partnership with Edmentum.*

### **Life Skills**

This course allows students to explore their personality type and interests, as well as refine important skills that will benefit them throughout their lives, including personal nutrition and fitness skills, time & stress management, communication & healthy relationships, goal setting, study skills, leadership and service, environmental and consumer health, and personal finances. In addition, students will explore possible colleges and careers that match their needs, interests, and talents.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Lifetime & Leisure Sports**

This course provides students with an overview of dual and individual sports. Students learn about a variety of sports, and do an in-depth study of martial arts, Pilates, fencing, gymnastics, and water sports. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to many of these sports. Students also learn the components of fitness, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments, set goals, and participate in weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Medical Terminology**

In this course students will be introduced to basic medical language and terminology that they would need to enter a health care field. Emphasis will be placed on definitions, proper usage, spelling, and pronunciation. They will study word structure and parts, including roots, prefixes, and suffixes, as well as symbols and abbreviations. They will examine medical terms from each of the body's main systems, including skeletal, muscular, cardiovascular, respiratory, digestive, urinary, nervous, endocrine, reproductive, and lymphatic systems, and sensory organs. In addition, students will learn proper terminology for common tests, procedures, pharmacology, disease, and conditions.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Middle School Health**

Middle School Health aids students in creating a foundation of personal health. Beginning with properly defining health, this course then builds upon basic health practices to emphasize the importance of balance. Attention is given to each of the six dimensions of wellness; namely, physical, intellectual, emotional, spiritual, social, and environmental. Students are taught the skills necessary to improve every aspect of health. They are also encouraged to reflect upon their own personal wellness each week.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Outdoor Sports**

This course provides students with an overview of dual and individual sports. Students learn about a variety of sports, and do an in-depth study of hiking and orienteering, golf, and dual volleyball. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to many of these sports. Students also learn the FITT principles, benefits of fitness, and safety and technique. Students conduct fitness assessments, set goals, and participate in weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Personal Health & Fitness**

This combined health and PE course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students will analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students will apply principles of health and wellness to their own lives. In





addition, they will study behavior change and set goals to work on throughout the course. Other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Personal Training Career Prep**

This course examines the role and responsibilities of a personal trainer. Students will learn the steps to become a personal trainer, including performing fitness assessments, designing safe and effective workouts, and proper nutrition principles. Concepts of communication and motivation will be discussed, as well as exercise modifications and adaptations for special populations. Students will also examine certification requirements, business and marketing procedures, and concerns about liability and ethics. In addition, throughout the course students will be able to explore various exercises, equipment, and tools that can be used for successful personal training.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Personal Training Concepts**

This course examines basic concepts in fitness that are important for personal fitness, as well as necessary foundational information for any health or exercise career field. Areas of study include musculoskeletal anatomy and physiology, terms of movement, basic biomechanics, health related components of fitness, FITT principles, functional fitness skills, safety and injury prevention, posture and technique, nutrition, and weight management.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Physical Education**

This course's three units include Getting Active, Improving Performance, and Lifestyle. Unit activities elevate students' self-awareness of their health and well-being while examining topics such as diet and mental health and exploring websites and other resources. In addition to being effective as a stand-alone course, the components can be easily integrated into other health and wellness courses.

### **Physical Education (Apex)**

Physical Education combines the best of online instruction with actual student participation in weekly cardiovascular, aerobic, and muscle toning activities. The course promotes a keen understanding of the value of physical fitness and aims to motivate students to participate in physical activities throughout their lives. Specific areas of study include: Cardiovascular exercise and care, safe exercising, building muscle strength and endurance, injury prevention, fitness skills and FITT benchmarks, goal setting, nutrition and diet (vitamins and minerals, food labels, evaluation product claims), and stress management. The course requires routine participation in adult-supervised physical activities. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities and on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.

Physical Education is built to state standards and informed by the Presidential Council on Physical Fitness and Sports standards.

No required or optional materials.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Physiology**

In this course, students will examine the functions of the body's biological systems--including skeletal, muscular, circulatory, respiratory, digestive, nervous, and reproductive systems. In addition to understanding the function of each system, students will learn the function of cells, blood, and sensory organs, as well as study DNA, immunity, and metabolic systems.



*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Running**

This course is appropriate for beginning, intermediate, and advanced runners and offers a variety of training schedules for each. In addition to reviewing the fundamental principles of fitness, students learn about goals and motivation, levels of training, running mechanics, safety and injury prevention, appropriate attire, running in the elements, good nutrition and hydration, and effective cross-training. While this course focuses mainly on running for fun and fitness, it also briefly explores the realm of competitive racing. Students conduct fitness assessments and participate in weekly physical activity.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Sports Officiating**

In this course, students will learn the rules, game play, and guidelines for a variety of sports, including soccer, baseball, softball, basketball, volleyball, football, and tennis. In addition, they will learn the officiating calls and hand signals for each sport, as well as the role a sport official plays in maintaining fair play.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Strength Training**

This one-semester course by Carone Fitness focuses on the fitness components of muscular strength and endurance. Throughout this course students establish their fitness level, set goals, and design their own resistance training program. They study muscular anatomy and learn specific exercises to strengthen each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles and other fundamental exercise principles, such as progression and overload, to strength training.

*This course is provided by Carone Learning, through partnership with Edmentum.*

### **Walking Fitness**

This course helps students establish a regular walking program for health and fitness. Walking is appropriate for students of all fitness levels and is a great way to maintain a moderately active lifestyle. In addition to reviewing fundamental principles of fitness, students learn about goals and motivation, levels of training, walking mechanics, safety and injury prevention, appropriate attire, walking in the elements, good nutrition and hydration, and effective cross-training. Students take a pre- and post-fitness assessment. Throughout this course students also participate in a weekly fitness program involving walking, as well as elements of resistance training and flexibility.

*This course is provided by Carone Learning, through partnership with Edmentum.*

## **Career & Technical Education**

### **Finance**

#### **Accounting A/B**

Accounting empowers high school students with the essential skills they need to understand accounting basics. Topics covered include the fundamentals of bookkeeping, financial statements, accounting based on the type of firm, specialized accounting tasks, and skills, regulations, and ethics for careers in accounting. Engaging and relevant, this course helps students with an accounting career orientation, and students in need of an overview of essential accounting principles.

#### **Accounting I (Apex)**

Accounting I examines how to make decisions about planning, organizing, and allocating resources using accounting procedures. Throughout the course, students focus on double-entry accounting; methods and



principles of recording business transactions; the preparation of various documents used in recording revenues, expenses, assets, and liabilities; and the preparation of financial statements.

This course allows students to explore careers in accounting while learning skills applicable to any professional setting. Students engage in project-based activities such as analyzing financial statements; implementing the accounts payable and accounts receivable process; and determining payroll expenses and taxes. Active learning ensures that students continually focus on the technical and interpersonal skills necessary to prepare them for the workplace. In addition, students evaluate the roles and qualifications required for specific accounting careers so they can identify opportunities of interest to them.

Accounting I is a full-year intermediate Career and Technical Education course applicable to programs of study in the finance or business management and administration career clusters. This course is built to state and national CTE standards. Students who successfully complete the course will be prepared to pursue certifications such as Associate in Regulation and Compliance, Certified Management Accountant, or Certified Quality Auditor. *This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Accounting II (Apex)**

Accounting II builds on the foundation acquired in Accounting I, allowing students to extend their skills and knowledge in the subject. The course focuses on various managerial, financial, and operational accounting activities that require the formulation, interpretation, and communication of financial information for use in management decision making. Students use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

This course allows students to explore careers in accounting while learning financial skills applicable to any professional setting. Students engage in project-based activities such as analyzing financial statements, implementing the accounts payable and accounts receivable process, and determining payroll expenses and taxes. Active learning ensures that students continually focus on the technical and interpersonal skills necessary to prepare them for the workplace. In addition, students evaluate the roles and qualifications required for specific accounting careers, so they can identify opportunities that interest them.

Accounting II is a full-year advanced Career and Technical Education course applicable to programs of study in the finance or business management and administration career clusters. This course is built to state and national CTE standards. Students who successfully complete the course will be prepared to pursue certifications such as Associate in Regulation and Compliance, Certified Management Accountant, or Certified Quality Auditor. *This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Advanced Accounting (Apex)**

Advanced Accounting builds on a foundation of basic skills and concepts in accounting so that students can extend their mastery of the subject. The course focuses on various managerial, financial, and operational accounting activities that require the formulation, interpretation, and communication of financial information for use in management decision making. Students use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

This course allows students to explore careers in accounting while learning financial skills applicable to any professional setting. Students engage in project-based activities such as analyzing financial statements, implementing the accounts payable and accounts receivable process, and determining payroll expenses and taxes. Active learning ensures that students continually focus on the technical and interpersonal skills necessary to prepare them for the workplace. In addition, students evaluate the roles and qualifications required for specific accounting careers, so they can identify opportunities that interest them.



This full-year course is applicable to the finance program of study in Indiana in alignment with Perkins V and NLPS requirements and is built to state standards. Students may take this course to satisfy the Concentrator B option in the aforementioned pathway.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Introduction to Finance**

Introduction to Finance is designed to enable students at the high school level to develop financial skills that they can use during in their careers in business organizations. Financial literacy is an essential capability for students as they prepare for the workforce, and this course provides the information they need to determine if a career in finance is right for them. The course introduces learners to a variety of topics, including investment strategies, money management, asset valuation, and personal finance. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the finance industry.

### **Business Management and Administration**

#### **Business Applications (Apex)**

Business Applications prepares students to succeed in the workplace. Students begin by establishing an awareness of the roles essential to an organization's success, and then work to develop an understanding of professional communications and leadership skills. In doing so, students gain proficiency with word processing, email, and presentation management software.

This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create, analyze, and critique reports, letters, project plans, presentations, and other professional communications. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities that are of interest to them.

Business Applications is an introductory level Career and Technical Education course applicable to programs of study in business, management, and administration; information technology; and other career clusters. This course is built to state and national standards. Students who successfully complete the course can go on to obtain the Microsoft® Office Specialist: Microsoft® Office Word certification.\*

\*Microsoft is a registered trademark of Microsoft Corporation in the United States and/or other countries.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

#### **Business Information Management A/B**

Business Information Management is designed to enable students to develop information management skills that they can use during in their careers in business organizations. This course covers career opportunities available in business information management, computing technology for business, and connecting through the internet. Additionally, students will learn to work with documents, spreadsheets, presentation programs, and databases, how to design web pages, and project management skills. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the business information management industry.

#### **Human Resources Principles (Apex)**

Human Resources Principles examines the main functions of human resources management, including planning, recruitment, selection, training, development, compensation, and evaluation. In so doing, the course provides students with the tools to hire, manage, and fire employees. Students also explore the unique role of human resources in a larger organization.





This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students create a recruiting plan, develop a strategy to promote a positive organizational culture, and analyze the impact of globalization on human resources. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for the workplace. In addition, students evaluate the qualifications required for specific careers so they can identify opportunities of interest to them.

Human Resources Principles is a full-year intermediate or capstone Career and Technical Education course applicable to programs of study in the business management and administration career cluster. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue certifications such as Associate Professional in Human Resources™, Certified Administrative Manager, or Certified Associate in Project Management (CAPM)®.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Information Technology Applications (Apex)**

Information Technology Applications prepares students to work in the field of information technology. Students demonstrate digital literacy through basic study of computer hardware, operating systems, networking, the internet, web publishing, spreadsheets, and database software. Through a series of hands-on activities, students learn what to expect in the field of information technology and begin exploring career options in that field.

Information Technology Applications is an introductory level Career and Technical Education course applicable to programs of study in information technology as well as other career clusters. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue the Microsoft® Office Specialist certifications in Microsoft Word, Microsoft Excel, and Microsoft Access, as well as IC3 certification.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **International Business**

International Business is a one-semester course that covers the fundamentals of international business, international business transactions, and how a business can go global. In this course, students will learn about international business and how globalization has impacted it. They will learn about global trade and investment policies, and politics and laws that impact international business. Students will also learn about the International Monetary Fund, foreign exchange and global capital markets, key world economies, and economic cooperation across countries. The course also covers strategies to enter the international market along with factors like strategic planning, marketing, global sourcing, and logistics, human resource management, and employability skills. Students also learn about the cultural elements involved in conducting international business.

### **Introduction to Business and Technology (Apex)**

Introduction to Business and Technology provides the foundational knowledge and skills students need for careers in business and technology. Throughout the course, students gain a knowledge of business principles and communication skills, an understanding of the impact of financial and marketing decisions, and proficiency in the technologies required by business. Students also learn the essentials of working in a business environment, managing a business, and owning a business.

This course allows students to explore careers in business and information technology while learning skills applicable to any professional setting. Through a variety of hands-on activities, students engage with word processing, presentation, and spreadsheet software and explore operating systems, networking, and the internet. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for the workplace. In addition, students evaluate the qualifications required for specific careers so they can identify opportunities of interest to them.

Introduction to Business and Technology is a full-year introductory Career and Technical Education course applicable to programs of study in the business management and administration and the information



technology career clusters, as well as other career clusters. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue certifications such as Microsoft® Office Specialist certifications in Microsoft Word, Microsoft Excel, and Microsoft Access, as well as IC3 certification.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Legal Environment of Business (Apex)**

Legal Environment of Business examines the role of the law on all aspects of business ownership and management. Throughout the course, students focus on legal ethics, court procedures, torts, contracts, consumer law, property law, employment law, environmental law, and international law. Students also explore the impact of laws, regulations, and judicial decisions on society at large.

This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students prepare legal documents, create a compliance plan, and research consumer protection issues. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students evaluate the qualifications required for specific careers so they can identify opportunities of interest to them.

Legal Environment of Business is a full-year intermediate or capstone Career and Technical Education course applicable to programs of study in the business management and administration career cluster. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue certifications such as Accredited Legal Professional, Certified Administrative Manager, or Certified Associate in Project Management®.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Management Fundamentals (Apex)**

Management Fundamentals explores the main functions of managing activities and personnel in a business environment. Students gain awareness about the nature of human resources and training and development, as well as the legalities of business and the nature and sources of law affecting managerial administration. With a greater understanding of contracts, government relations, and the ability to mechanize ethically the relationships between employees, consumers, and business interests, students enter the world of business administration prepared for the challenges of maintaining a worthwhile and positive organization.

This full-year course is applicable to the business management and administration program of study in Indiana in alignment with Perkins V and NLPS requirements and is built to state standards. Students may take this course to satisfy the Concentrator A option in the aforementioned pathway.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Principles of Business Management (Apex)**

Principles of Business Management prepares students for the responsibilities of starting and managing a business in today's economic climate. Students interact with the mechanisms of management systems from the perspective of business leadership, with emphasis on honing their technical toolset to operate effectively in a changing landscape. Students also develop a functional awareness of the economic relationship between finance and marketing and attain an understanding of what it takes to both start and ethically run an enterprise with organizational goals in mind.

This full-year course is applicable to both the finance and business administration programs of study in Indiana in alignment with Perkins V and NLPS requirements and is built to state standards. Students who complete this course will be prepared to take the Concentrator A options in either aforementioned pathway.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Principles of Business, Marketing, and Finance (Apex)**



Principles of Business, Marketing, and Finance provides the knowledge and skills students need for careers in business and marketing. Students begin exploring roles and functions that business and marketing play in a global society. They also develop an understanding of the marketplace and product placement and promotion. Students analyze the impact of government, legal systems, and organized labor on business; develop an understanding of business communications and management; and explore legal, ethical, and financial issues in business and marketing. Furthermore, students delve into basic economic concepts including personal finance, economic systems, cost-profit relationships, and economic indicators and trends.

Using hands-on activities, students reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant real-world inspired scenarios. This course focuses on developing knowledge and skills around marketing, pricing, distribution, and management, while also focusing on economics and interpersonal skills. This course also addresses exploring career options in business and marketing as well as securing and keeping a job.

Principles of Business, Marketing, and Finance is a full-year Career and Technical Education course for programs of study in business management and administration. This course is built to state and national standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Principles of Business, Marketing, and Finance A/B**

Principles of Business, Marketing, and Finance is designed as a practical, hands-on guide to help students understand the skills required to achieve success in modern-day careers in business, marketing, and finance industries. Topics covered include the fundamentals of business management, sales, marketing, international business, business law, ethics and safety, and resource management. This course makes practical, real-life applications of essential business principles understandable and useful in the daily lives of students and in the careers that they choose.

### **Professional Communications**

The Professional Communications course is designed to enable all students at the high school level to develop communication skills they will need to be successful in a profession. Students learn about the key aspects of the communication process. They learn to apply communication protocol and appropriate language skills in professional and social communication. Students also explore effective strategies to address diversity in communication. Finally, students familiarize themselves with reading, writing, speaking, and listening skills. This course covers topics such as communication in business organizations and technology for communication. The course is based on Career Technical Education (CTE) standards designed to help students prepare for communication in a wide range of professions.

## Information Technology

### **CompTIA A+ 220-1001**

This course is focused on the exam objectives of CompTIA A+ 220-1001. Students will learn about computer hardware and networking, including concepts related to virtualization and cloud computing. Students will learn about mobile devices and their features. Students will learn how to identify and troubleshoot problems related to hardware, networking, printers, storage devices, and mobile devices. Unit activities in the course help students to develop and apply critical thinking skills. Animations and screenshot-based slideshows included in the lesson keep students engaged. Students can understand technical concepts easily. Simulations provide students a real computer environment to practice various procedural steps. These simulations emulate the CompTIA A+ performance-based questions. Practice test at the end of the course help students to practice questions that are parallel to the CompTIA A+ 220-1001 certification exam.

### **CompTIA A+ 220-1002**



This course is focused on the exam objectives of CompTIA A+ 220-1102. Students will learn about the features and tools in Windows, Mac/Linux, and mobile operating systems. Students will learn about security, cloud computing, and operational procedures. Students will also learn how to use remote access tools and identify and troubleshoot problems related to operating systems, security, and mobile applications. Unit activities in the course help students to develop and apply critical thinking skills. Animations and screenshot-based slideshows included in the lesson keep students engaged. Students can understand technical concepts very easily. Simulations provide students a real computer environment to practice various procedural steps. These simulations emulate the CompTIA A+ performance-based questions. Practice test at the end of the course help students to practice questions that are parallel to the CompTIA A+ 220-1102 certification exam.

### **CompTIA Cloud Essentials+ Certification (CLO-002)**

CompTIA Cloud Essentials+ Certification (CLO-002) covers the exam objectives of the CompTIA Cloud Essentials+ certification exam. Students begin by identifying cloud service models and deployment models. The course then covers cloud networking concepts, cloud storage technologies, and cloud design. It explains cloud assessment methods, vendor relations in cloud adoptions, and cloud migration approaches. It also describes the benefits of using cloud services. Finally, the course covers data management, DevOps, and financial expenditures in a cloud environment.

The lesson activities, unit activities, course activity, and course project help students develop and apply critical thinking skills. The videos and animations keep students engaged. And the practice test at the end of the course gives students the opportunity to work through questions similar to those on the CompTIA Cloud Essentials+ certification exam.

### **CompTIA Cloud+ Certification A/B (CV0-003)**

CompTIA Cloud+ Certification (CV0-003) covers the exam objectives of the CompTIA Cloud+ certification exam. Students begin in semester A by identifying cloud service models and deployment models. The course then covers high availability, scaling, network security, application security, user security, and data security in cloud environments. Students learn how to integrate components and provision storage in a cloud environment. At the end of semester A, they explore cloud networking solutions and cloud migrations.

In semester B, students learn how to configure logging, monitoring, and alerting to maintain cloud operations. They explore how to optimize and maintain efficient operation of a cloud environment. The course also covers automation, orchestration, and disaster recovery. Finally, students learn to troubleshoot issues related to security, deployment, connectivity, performance, and automation.

The lesson activities, unit activities, course activity, and course project help students develop and apply critical thinking skills. The videos and animations keep students engaged. And the practice test at the end of the course gives students the opportunity to work through questions similar to those on the CompTIA Cloud+ certification exam.

### **CompTIA Network+ Certification (N10-007) A/B**

This course is a two-semester course focused on the exam objectives of CompTIA Network+ certification N10-007. Students will learn about the types of networks, network topologies, the Open Systems Interconnection (OSI) model, Internet protocol addresses, routing, and switching. Students will learn about wireless technologies, virtualization, cloud concepts, and network services. Students will learn about network cables, connectors, network devices, network storage technologies, and wide area networks. Students will learn about network documentation, network monitoring, and remote access methods. Students will learn about business continuity, disaster recovery methods, physical and logical security methods. Students will learn how to secure a wireless network. Students will also learn about network attacks, and various device hardening and mitigation techniques. Finally, students will learn how to troubleshoot issues related to wired connectivity, wireless connectivity, and network services. Unit activities in the course help students to develop and apply critical thinking skills. Animations included in the lesson keep students engaged. Students can understand technical





concepts very easily. Simulations provide students a real computer environment to practice various procedural steps. These simulations emulate the CompTIA Network+ performance-based questions. Practice Test at the end of the course help students to attempt questions that are similar to CompTIA Network+ certification N10-007 exam.

### **CompTIA Security+ Certification (SY0-601) A/B**

CompTIA Security+ Certification (SY0-601) covers exam objectives of CompTIA Security+ certification exam SY0-601. This course begins by describing security threats and attacks, and students learn about security concerns related to various types of vulnerabilities.

Additionally, this course covers security controls and cryptography, as well as enterprise and specialized systems security. Students then learn about application, network, and mobile device security, and account management and authentication. Finally, this course explores the incident response life cycle and mitigation techniques along with organizational security and risk management.

### **Computer Programming 1 A/B**

Computing for College and Careers is intended as a practical, hands-on guide to help students understand basic computer skills required in their college education as well as in their career. This course covers basic computer hardware components, software applications, productivity applications such as word processing software, spreadsheet software, and presentation software, and new hardware and software technologies such as virtualization, cloud computing, green computing, and blockchain technology. This course also explores various career options and provides guidelines on privacy, security, and ethical issues related to software and internet use.

### **Computer Science Essentials (Apex)**

Computer Science Essentials offers a focused curriculum designed around foundational computer science concepts, including computer systems, programming, networks, and data management. The course also introduces students to foundational computer science skills such as coding, troubleshooting, and being a responsible digital citizen.

Course topics include the history and impact of computers; careers in computer science; computing laws and ethics; bias and equity issues in computing; algorithms and coding; data storage, organization, and analysis; hardware and software; robotics; networks and the internet; cybersecurity and online safety; website design; and the use of abstraction in computing. Students discover new concepts through guided instruction and confirm their understanding in an interactive, feedback-rich environment.

A variety of activities encourage students to explore different aspects of computer science. Lab activities guide students through coding their own programs. Project and explore activities reinforce critical thinking, research, writing, and communication skills. In addition, project activities guide students through the development of different types of computer artifacts. In discussion activities, students conduct research on current computing topics and then exchange ideas with their peers. Practice activities provide additional opportunities for students to apply learned concepts and practice their writing, reasoning, and computer literacy skills.

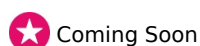
This course is built to state standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Introduction to Cybersecurity**

Introduction to Cybersecurity introduces students to the field of cybersecurity, focusing primarily on personal computer use and vulnerabilities while also highlighting the wider scope of cybersecurity from a societal and career perspective. Specific topics include computer security, VPN and wireless security, risk management, and laws, standards, and ethics related to cybersecurity

### **Networking Fundamentals A/B**



Coming Soon



College Board® Advanced Placement® Approval



National Collegiate Athletic Association (NCAA)



This course is a two-semester course focused on the concepts of networking. Students will learn about careers in networking and employability skills required for a career in networking. Students will learn about the types of networks, network topologies, the Open Systems Interconnection (OSI) model, Internet protocol addresses, and Internet of Things (IoT) technologies. Students will learn about networking devices, cables, media, and connectors. Students will learn to set up a small wired network. Students will learn about network security threats and preventive measures to secure a network. This course also covers network planning, administration, troubleshooting, and maintenance. Students will learn about wireless networking standards and access methods. Students will learn to set up and secure a wireless network. Students will learn about virtual private networks and cloud computing. Students will also learn to troubleshoot issues related to wired and wireless networks. Unit activities in the course help students to develop and apply critical thinking skills. Animations included in the lesson keep students engaged. Students can understand technical concepts very easily. Simulations provide students a real computer environment to practice various procedural steps.

### **Principles of Information Technology (Apex)**

Principles of Information Technology prepares students to succeed in the workplace. Students begin by establishing an awareness of the roles essential to an organization's success, and then work to develop an understanding of professional communications and leadership skills. In doing so, students gain proficiency with word processing, email, and presentation management software. Students will also be able to demonstrate digital literacy through basic study of computer hardware, operating systems, networking, the Internet, web publishing, spreadsheets and database software.

This course allows students to explore careers in information technology and business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create, analyze, and critique reports, letters, project plans, presentations, and other professional communications. Students will learn what to expect in the field of Information Technology and begin exploring career options in the field. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities that are of interest to them.

Principles of Information Technology is a full-year introductory Career and Technical Education course applicable to programs of study in business, management, and administration; information technology; and other career clusters. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue the Microsoft® Office Specialist certifications in Microsoft Word, Microsoft Excel and Microsoft Access\*, as well as IC3 certification.

\*Microsoft is a registered trademark of Microsoft Corporation in the United States and/or other countries.

*This course was originally created for Apex Courses.*

### **Principles of Information Technology A/B**

The Principles of Information Technology course is designed to enable students at the high school level to develop the critical skills and knowledge necessary in the information technology industry. Students will be exposed to the fundamentals of computer systems, and will learn how to use the internet, word processors, presentation software, spreadsheets, and databases. Additionally, students will learn about computer programming, computer networks, and web design and development. Finally, students will explore different career pathways in the field of information technology and identify the key skills and certifications needed for these careers.

### **Security Fundamentals A/B**

Security Fundamentals is designed to enable students at the high school level to develop the critical skills and knowledge necessary for careers in cybersecurity. Students will learn about the basic concepts of cybersecurity, basic computer components, file management, types of networks, Open Systems Interconnection (OSI) model, network protocols, and IP addresses.



This course then covers security threats, prevention methods, and legal and ethical issues in cybersecurity. After gaining an understanding of security agencies, security topologies, quality control systems, and physical security devices, students will explore securing network devices, data security, data backup and recovery, and risk management.

## Human Services

### **Child Development and Parenting A/B**

Child Development and Parenting is designed to familiarize students with the various stages of child development as well as the factors that may prevent the healthy development of a child. This course explores the development, health, nutrition, and safety of children at various stages. In addition, the course covers career opportunities in the field of childcare and development.

### **Introduction to Military Careers**

Introduction to Military Careers is a one-semester course that introduces the US military and describes each of its branches, which include the National Guard, Army, Navy, Marine Corps, Coast Guard, and Air Force. Students will learn about the relationship of the military reserve to the branches of the military. The course covers non-combat careers in the military, such as military intelligence, information technology, health care, legal services, logistics, aviation, and transportation, and other specialized careers. This course also covers enlistment and fitness requirements for military careers and personal traits that are essential for success in the military. The lessons in the course provide students with both breadth and depth, as they learn about the US Military. Online discussions and course activities require students to develop and apply critical thinking skills while appealing to a variety of learning styles and keep students engaged.

### **Personal Finance**

Personal Finance is a one-semester course that teaches financial literacy skills to help students plan and achieve career and personal goals. This course focuses on consumer economics, financial services, and personal financial management. Students learn how to budget, spend, invest, and make every day financial decisions. The course also provides an exploration of careers in personal finance and consumer services.

### **Personal Financial Literacy**

Personal Financial Literacy offers an engaging, scaffolded curriculum that introduces key topics and principles necessary to financial literacy. The one-semester course covers earning and spending; savings and investing; credit and debt; protection of assets; and financial planning and decision-making. Through real-life scenarios and hands-on activities, the course explores choosing among banking and investment options, shopping for an auto loan, choosing among career and college options, financing options for continuing education, planning for retirement, and creating and living within a budget. As a social studies course, Financial Literacy is designed to complement courses in Economics and Mathematics for Personal Finance.

This course is built to state standards and further informed by standards from the Council for Economic Education's National Standards for Financial Literacy and the Jump\$tart Coalition for Personal Financial Literacy's National Standards in K-12 Personal Finance Education.

*This course was originally created for Apex Courses.*

### **Principles of Human Services A/B**

The Principles of Human Services course is designed to enable students at the high school level to develop the critical skills and knowledge necessary in the human services industry in careers such as childcare, family services, and personal care services. Students will learn about various personal characteristics that they need to demonstrate in the workplace, such as integrity, and positive work ethics. This course covers topics such as



employability skills, counseling and mental health services, and consumer services. The course is based on Career Technical Education (CTE) standards designed to help students prepare for entry into a wide range of careers in the human services field.

### **Psychology A/B**

Psychology gives your students an overview of the history of psychology while also giving them the resources to explore career opportunities in the field. Students will learn how psychologists develop and validate theories and will examine how hereditary, social, and cultural factors help form an individual's behavior and attitudes. Students will also evaluate the effectiveness of different types of psychological counseling and therapy and describe key statistical concepts used in psychological research and testing. Finally, students will identify and explore career opportunities in psychology.

### **Relationships and Emotions A/B** ★

Relationships and Emotions is a two-semester course that focuses on various facets and complexities of relationships and emotions. The course begins with an explanation of the importance of communication skills in building relationships. It then delves into problem-solving, critical thinking, time management, and goal setting—all skills essential for a fulfilling life. The course next explores different kinds of relationships, including familial and other common societal relationships, while distinguishing between healthy and unhealthy relationships. In addition, the course discusses conflict resolution, support systems, self-esteem, and self-management strategies.

Lesson Activities, Unit Activities, a Course Activity, and a Course Project help students develop and apply critical thinking skills. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Sociology**

In the Sociology course, students will explore the evolution of sociology as a distinct discipline while learning about sociological concepts and processes. They will learn how the individual relates to and impacts society. Students will also learn about the influence of culture, social structure, socialization, and social change on themselves and others. The course combines a variety of content types, including lessons, activities, and discussions to engage learners as they discover sociology as a subject and as a career.

## **Health Science**

### **Allied Health Careers A/B**

Allied Health Careers focuses on the health care delivery system and careers in allied health services. In semester A, students begin by learning the structures and functions of various body systems. They explore common diseases and disorders of each system and discuss strategies and factors that influence overall health and wellness. In addition, semester A covers medical terminology, diagnostic imaging techniques, electrocardiography, common laboratory tests, and respiratory care.

Semester B focuses on the skills and knowledge needed by allied health professionals in various health care fields. It also covers information concerning safety, law, and ethics in health care settings. In addition, students learn important workplace skills related to communication, teamwork, and leadership.

The lesson activities, unit activities, course assignment, and course project help students develop and apply critical thinking skills. The videos keep students engaged. And the practice test at the end of the course helps students reinforce their understanding of key concepts.

### **Anatomy and Physiology A/B**





Anatomy and Physiology focuses on the anatomy and physiology of the human body. Students learn about the organization and structure of the body, common medical terminology, and the structures and functions of cells and tissues. They also learn about the common diseases and disorders associated with the systems of the body. The lesson activities, unit activities, course assignment, and course project help students develop and apply critical thinking skills. The videos included in the lessons keep students engaged. The practice test at the end of the course helps students reinforce their understanding of key concepts.

### **Applied Medical Terminology A/B**

Applied Medical Terminology helps students understand the structure and meaning of medical terms and identify medical terminology associated with various body systems. As the health care industry becomes more complex, developing expertise in accurately and efficiently identifying medical terms and their specific application is essential to a growing variety of health care careers. This course begins to prepare your students for those careers.

### **Certified Nurse Aide A/B**

The course is designed to enable students to learn the key skills and information that they need to work as certified nurse aides. The course will help students develop an understanding of the human body, physical and nutritional needs, mental health needs and teach them to provide culturally competent and quality care to clients in a safe and healthy environment. The course is based on the NNAAP Exam syllabus and is designed to prepare students to take the exam and become certified nurse aides. The course has animations and videos that demonstrate key skills that students must acquire to work as nurse aides. The practice test at the end of the course gives students practice on the written exam that they'll need to give to become certified nurse aides.

### **Exercise Science A/B**

Exercise Science focuses on providing a solid foundation in exercise science to students interested in careers such as athletic training, personal training, physical therapy, nutrition, and recreational therapy. Students explore the concepts of biomechanics and kinesiology, as well as the anatomy and physiology of various body systems. Students identify common diseases and disorders of each system and discuss the diagnosis, prevention, and treatment of these diseases and disorders. Students will also discover how to perform fitness and biometric measurements, complete client evaluations, and design client exercise and rehabilitation programs. In addition, the course covers the basics of nutrition, physical activity, and wellness. The lesson activities, unit activities, course assignment, and course project help students develop and apply critical thinking skills. The videos included in the lessons keep students engaged. The practice test at the end of the course helps students reinforce their understanding of key concepts.

### **Health Information Management A/B**

Health Information Management introduces students to the U.S. healthcare system and the basic concepts related to health information management. Students will gain an understanding of information systems in health care; the evolving role of health data in health information systems; and how professionals in this field use data to support the clinical, financial, administrative, and research functions of an organization. This course offers students insight into career opportunities in health information management and opportunities for advancement and employability skills for a successful career. Students will also learn about the key laws, regulations, and ethical standards that govern professionals in health information, such as the Health Insurance Portability and Accountability Act (HIPAA), the American Health Information Management Association (AHIMA) Code of Ethics, and laws on worker safety.

### **Health Science 1 A/B**

Health Science 1 is based on Career and Technical Education (CTE) standards to help students develop technical knowledge and skills needed for success in careers in the health science industry. The course will engage students to understand the basic structure and function of the human body, biomolecules such as proteins,



carbohydrates, and lipids, and biological and chemical processes. Students will also learn to identify and analyze diseases and medical procedures related to each body system, while developing an understanding of medical terminology.

### **Health Science 2 A/B**

Health Science 2 is designed to enable students to learn the basics of health science. In the course, students will develop an understanding of the academic qualifications, personal skills, training, and use of healthcare tools required to work in the healthcare industry. The course is based on Career and Technical Education (CTE) standards to help students develop technical knowledge and skills needed for success in the healthcare industry.

### **Medical Coding and Billing A/B**

Medical Coding and Billing prepares high school students for a career as a medical coding and billing specialist. The topics covered in this course provide a strong foundation for students planning to take a certification exam, such as the Certified Professional Coder (CPC) exam or the Certified Coding Associate (CCA) exam. This course presents an overview of the U.S. healthcare delivery system and explains what medical coders and billers do to keep this system operating efficiently. After a review of the anatomy and physiology of humans, students will then explore medical coding and billing jobs in different settings, including hospitals, physicians' offices, and insurance companies. This course also provides coverage of the ICD-10-CM, CPT®, HCPCS, and ICD-10-PCS coding systems and an overview of the medical billing process and healthcare revenue cycle management.

### **Medical Therapeutics A/B**

Medical Therapeutics focuses on identifying employment and entrepreneurial opportunities in medical therapeutics. Students create a career plan and develop a variety of skills related to communication, teamwork, and leadership. They also learn about laws, ethics, and workplace and equipment safety, as well as electronic health records and the health care delivery system. Students also explore the major body systems and identify common diseases and disorders of each system. Finally, students demonstrate proficiency in the use of medical terminology.

The lesson activities, unit activities, course assignment, and course project help students develop and apply critical thinking skills. The videos included in the lessons keep students engaged. The end-of-semester test at the end of the course helps students reinforce their understanding of key concepts.

### **Principles of Health Science (Apex)**

Principles of Health Science provides knowledge and skills students need for careers in health care. Students explore the services, structure, and professions of the health care system and get guidance on choosing a specific career path in health services, including career paths in emergency medicine, nutrition, and alternative medicine.

Students focus on day-to-day skills and expectations for health professionals, which include promoting wellness, maintaining a safe environment, creating medical records, and practicing good communication, collaboration, and leadership. In addition, students expand their understanding of health and safety systems, learn how to address emergency situations, and deal with infection control issues. Students also explore medical science topics, terminology, procedures, and regulations — including an overview of physiology and medical measurements.

Using real-life scenarios and application-driven activities, students learn the responsibilities and challenges of being health care professionals and deepen their knowledge of various career options. In addition to building their understanding of technical concepts and skills, students evaluate the qualifications required for specific careers and develop personal career plans to pursue work in the health care industry and extend their knowledge of oral and written communication in health science.



Principles of Health Science is a full-year Career and Technical Education course for programs of study in health sciences. This course is built to state and national standards.

*This updated course was originally created for Apex Courses and is now available in Courseware.*

### **Principles of Health Science A/B**

With an engaging and interactive instructional approach, the Principles of Health Science course provides students with a comprehensive overview of health science topics and careers. Health science professionals are in increasing demand, and this course is an effective way to introduce students to a wide array of health science careers. Students will learn about the history of health care in the United States, job opportunities in the five healthcare systems, the qualifications and skills required to work in the healthcare sector, and factors that are important in a workplace environment such as communication skills, knowledge of laws and ethics related to health care, and knowledge of health and wellness. Additionally, the course covers medical terminology, human anatomy, homeostasis, and different stages of human life.

### **Rehabilitation Careers A/B**

Rehabilitation Careers focuses on the skills and knowledge needed by professionals in rehabilitation therapy. Students are introduced to various careers in rehabilitation and learn about employment opportunities in this field. They learn about the anatomy and structure of the human body and common medical terminology. In addition, students will discover patient care skills, how to estimate insurance costs for patients, and safety guidelines for working in a rehabilitation career.

The lesson activities, unit activities, course assignment, and course project help students develop and apply critical thinking skills. The videos included in the lessons keep students engaged. The practice test at the end of the course helps students reinforce their understanding of key concepts.

## Hospitality and Tourism

### **Culinary Arts A/B**

Culinary Arts is intended to help students gain an understanding of the history and development of the culinary arts as well as practical skills for careers in the culinary industry. This course covers the basics of nutrition, health, safety, and sanitation and the basic science principles used in cooking. Students will be exposed to the culinary skills required to make a variety of food items. Additionally, students will become familiar with menu planning, food presentation, different service styles, and kitchen management skills. This course is based on Career and Technical Education (CTE) standards designed to help students prepare for entry into a wide range of careers in the culinary industry.

### **Food Handler and Food Manager Certifications**

The Food Handler and Food Manager Certifications course helps students learn what they need to know to be successful in the National Restaurant Association (NRA) ServSafe® Food Handler and Manager Certification exam. The five units of the course arm students with the knowledge and skills to provide safe food to customers as a food handler or a food manager. Key topics include the principles of food safety, hygiene practices, time and temperature control, food procedures from initial purchasing to final serving, procedures for cleaning and sanitizing, and food service inspection protocols.

### **Hospitality Management A/B** ★

Hospitality Management is a two-semester course that focuses on the knowledge and skills needed by professionals in the hospitality and tourism industry. Students are introduced to the history of this vibrant industry, its economic significance, and its social and environmental impact. They learn about the various segments of the industry, including the departments of a hotel, tourism, and conventions and meetings. Students also explore management functions, such as staffing and leadership.



Lesson Activities, Unit Activities, a Course Activity, and a Course Project help students develop and apply critical thinking skills. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Nutrition and Wellness**

Nutrition and Wellness is a one-semester introductory course that covers the basics of nutrition and health. The course introduces students to nutrients, their food sources, their functions, nutrient recommendations, and food labeling. Students will learn about the digestive and metabolic processes in the human body and discuss factors that affect health, wellness and fitness, and the nutritional needs through the life and for specific conditions. Food management principles, such as safe food handling practices, foodborne pathogens and illnesses, food preparation and presentation techniques, menu planning, and technological advances and marketing trends in the food industry are covered in this course. Finally, students will explore career options in the field of nutrition and wellness and learn about goal setting, planning a career, and workplace skills and ethics.

### **Principles of Hospitality and Tourism A/B**

The hospitality and tourism industry offers a dynamic career path that will pique the interest of many of your students. This course emphasizes learning the practical aspects of the industry and promotes the development of critical-thinking skills required in real-world situations. The 14-lesson course will introduce your students to the basics of hospitality and tourism, and will help them evaluate their skills and prepare for a career in this growing and exciting industry.

### **Sports and Entertainment Marketing**

Sports Entertainment and Marketing is a one-semester course is intended to help students gain an insight into the field of sports, entertainment, and recreation marketing. This course covers fundamental concepts in sports, entertainment, and recreation marketing. It also covers essential skills related to advertising, sponsorship, and marketing campaigns. In addition, the course covers crucial workplace skills, such as teamwork and leadership skills.

## **General**

### **Career Explorations**

Career Explorations is intended as a practical, hands-on guide to enable students to explore career opportunities in different career clusters and pathways. In addition to exploring career options, students will develop an academic and career plan, learn essential skills for success in college and a variety of careers, and prepare to enter the job market. Career Explorations also helps students build confidence as they prepare to embark on their chosen careers.

### **Computing for College and Careers A/B**

Computing for College and Careers is intended as a practical, hands-on guide to help students understand basic computer skills required in their college education as well as in their career. This course covers basic computer hardware components, software applications, productivity applications such as word processing software, spreadsheet software, and presentation software, and new hardware and software technologies such as virtualization, cloud computing, green computing, and blockchain technology. This course also explores various career options and provides guidelines on privacy, security, and ethical issues related to software and internet use.

### **Essential Career Skills**

Essential Career Skills is a one-semester course that teaches the skills required to achieve success in modern-day careers. Students will learn about personal qualities and people skills that are important in the workplace,





such as work ethic, integrity, teamwork, and conflict resolution. Additionally, students will practice skills in communication, math, problem-solving, and critical thinking. The course then covers the structures and functions of business organizations, time, task, and resource management skills, and workplace safety laws and standards. Students will then explore career goals and job opportunities and become familiar with various technologies used to perform job-specific tasks in an organization.

## Agriculture, Food, and Natural Resources

### **Forestry and Wildlife Management A/B** ★

Forestry and Wildlife Management is a two-semester course that begins by identifying employment and entrepreneurial opportunities in forestry, wildlife, and natural resource management. Students learn about safety hazards and procedures in the industry. They also learn about soil, mineral, plant, water, forest, and wildlife management, as well as the laws that govern these professions. In addition, students learn about the tools and practices used in forestry and wildlife management careers. Finally, they learn about the carrying capacity of rangelands and the consequences of overgrazing.

Lesson Activities, Unit Activities, a Course Activity, and a Course Project help students develop and apply critical thinking skills. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Foundations of Green Energy A/B**

This is a two-semester course for high school students who want to understand the rapidly growing and evolving energy field, with special emphasis on electrical energy and on new and emerging energy technologies. The course is designed to address state standards in the Energy and STEM domains as well as the Energy Industry Fundamentals Certificate Program (EIFCP) standards developed by the Center for Energy Workforce Development (CEWD). Unit topics include the energy industry; energy science and efficiency; electrical generation, transmission, and distribution; conventional, alternative, and emerging energy sources; health, safety, and security issues; and energy careers and pathways, from entry level to professional.

### **Introduction to Marine Biology**

Introduction to Marine Biology is designed to introduce students to oceanic features and processes, ocean habitats and ecosystems, life forms in the ocean, and types of interactions in the ocean. Students will learn about the formation and characteristic features of the oceans. They will learn about the scientific method and explore careers available in marine biology. The course then covers the characteristic features of different taxonomic groups, habitats, life forms, and ecosystems that exist in the oceans and different adaptations marine creatures possess to survive in the ocean. Students will learn about succession and the flow of energy in marine ecosystems, as well as the resources that the oceans provide and the threats that the oceans face from human activities.

### **Introduction to Veterinary Science**

Introduction to Veterinary Science is designed to introduce students at the high school level to the fundamentals of veterinary science. The students will explore the history of veterinary science and the skills and requirements for a successful career in the veterinary industry. They will also explore the anatomy and physiology of animals, learn how to evaluate animal health, and determine effective treatments for infectious and noninfectious diseases in animals. Additionally, they will learn about zoonotic diseases, and the impact of toxins and poisons on animal health.

### **Natural Resources A/B** ★



Natural Resources is a two-semester course that focuses on the sustainable management of natural resources such as air, water, minerals, energy sources, soil, and land. The course begins with an introduction to types of natural resources, including biotic, abiotic, renewable, and nonrenewable resources, as well as their geographic distribution and uses. It explores how human activities affect the availability of natural resources and examines the environmental and economic consequences of natural resource use and overuse. In addition, the course covers soil, land, forest, and rangeland management. Students will discover career options and the skills needed within the natural resources industry, as well as workplace safety regulations. Finally, the course examines the laws and regulations that govern natural resource use and management.

Lesson Activities, Unit Activities, a Course Activity, and a Course Project help students develop and apply critical thinking skills. Videos and interactive content included in the lessons keep students engaged and make technical concepts easy to understand. The end-of-semester test helps students reinforce their understanding of key concepts.

### **Principles of Agriculture, Food, and Natural Resources A/B**

In the Principles of Agriculture, Food, and Natural Resources course, students will learn about various career options in the agriculture, food, and natural resources industries. They will learn about technology, safety, and regulatory issues in agricultural science. They will also learn about topics related to agriculture, such as international agriculture and world trade, sustainability, environmental management, research, development, and future trends in the industry. The course helps students understand how the rising demand for sustainable food sources can be met while also meeting the challenge of producing higher yields to feed a growing world.

## **STEM**

### **Biotechnology A/B**

Biotechnology focuses on the fundamentals of biotechnology. In semester A, students become familiar with the basics of cell biology and molecular biology. They describe the structures and functions of DNA, RNA, and proteins, and they are introduced to the concepts of polymerase chain reactions, recombinant DNA technology, and protein engineering. Finally, students learn the significance of safety protocols in the laboratory and apply advanced laboratory techniques to perform an experiment.

Topics covered in semester B include genetics, regulations that apply to biotechnology, and biotech careers. Students learn about the contributions of various scientists, the importance of the discovery of DNA, and genetic engineering. They explore biotechnology in industry, agriculture, and medicine and discuss the latest trends in the field and its impact on society.

The lesson activities, unit activities, course assignment, and course project help students develop and apply critical thinking skills. The videos keep students engaged. Simulations help students practice various laboratory techniques. And the practice test at the end of the course helps students reinforce their understanding of key concepts.

### **Electronic Communication Skills**

Electronic Communication Skills is a one-semester course that is based on Career and Technical Education (CTE) standards to help students prepare for entry into a wide range of careers and/or into postsecondary education. The course is designed to enable students at the high school level to develop electronic communication skills that they can use in their careers. Students will learn computer basics, keyboarding techniques, working with documents and presentations, and safe use of the internet.

### **Game Development**

Game Development teaches students the ins and outs of game development to prepare them for a career in the field. This course covers the history of video games, character development, mobile game design, user interface



design, social gaming, and the principles of development design and management methodologies. While fun and highly engaging, the course focuses on laying a strong foundation for a career in game development.

### **Introduction to Android Mobile App Development**

Introduction to Android Mobile App Development is a one-semester course that familiarizes students with the knowledge, skills, and training required for a career in Android mobile app development. This course introduces the process involved in creating a mobile app and provides a tour of the history of and upcoming trends in mobile app development. The course provides students the opportunity to explore how to start a mobile app development company. Finally, the course culminates in students creating a new project in Android Studio, creating the user interface of an app, and making it interactive in Android Studio.

### **Introduction to Astronomy**

Introduction to Astronomy is a one-semester course that is designed to enable students to learn the basics of astronomy. The course begins with coverage of the history of astronomy from ancient times to modern times. Student then learn to identify the movements of the Sun, Moon, planets, and stars across the sky and to describe the formation of the solar system and the role of the Sun and Moon in the solar system. The course goes on to cover the causes of seasons on Earth and why Earth can sustain life. The course culminates in a study of the stars, galaxies, and the Milky Way, various theories of cosmology, and advantages and disadvantages of space exploration. The target audience for this course is high school students.

### **Introduction to iOS Mobile App Development**

Introduction to iOS Mobile App Development is a one-semester course that familiarizes students with the knowledge, skills, and training required for a career in iOS mobile app development. This course introduces the process involved in creating a mobile app and provides a tour of the history of and upcoming trends in mobile app development. The course provides students the opportunity to explore how to start a mobile app development company. Finally, the course culminates in students learning about the iOS development environment, creating the user interface of an app, and making the app interactive in Xcode.

### **Principles of Engineering and Technology A/B**

The Principles of Engineering and Technology course provides students with essential STEM knowledge and an effective overview of STEM careers. Students will become familiar with engineering systems and technologies, the process of engineering design, and manufacturing technologies and processes. Additionally, the course covers communication skills and team and resource management.

### **Revolutionary Ideas in Science**

Revolutionary Ideas in Science is a one-semester course with lessons that cover the discoveries and inventions in science from pre-historic to present times. This course covers topics such as: prehistoric science, technology, ancient and medieval science, the scientific revolution, thermodynamics and electricity, and many more.

### **Robotics I A/B**

This two-semester course is focused on the concepts related to robots and how to construct a robot. Students will learn about the history and applications of robotics. Students will learn about the job opportunities and employability skills in the field of robotics. Students will also learn about the basic concepts of six simple machines, electricity, electronic circuits, Boolean algebra, magnetics, and their applicability to robotics. Students will apply safety procedures and construct a simple robot. Students will also learn about project management and engineering design process. Students will learn about the programming languages used in robotics. Students will create a simple robotic arm. Students will also construct a robot using programming. Student will learn about ethics and laws related to robotics. Students will also learn how to test and maintain a robot. Online discussions and unit activities require students to develop and apply critical thinking skills, while the included games appeal to a variety of learning styles and keep students engaged.



Required lab materials note: This course contains hands-on labs that employ relatively-common household materials to provide a valuable laboratory experience. Please refer to the Student Syllabus or Teacher's Guide for a detailed list of required lab materials and options for purchasing kits.

### **Web Technologies A/B**

The Web Technologies course provides student with the essentials of web design and helps them discover what makes a site truly engaging and interactive. Lessons on topics such as design principles, graphics, and web standards help students understand the elements of effective and dynamic web design. Students will create web pages in HTML, use JavaScript to create basic scripts, create DHTML and XML documents, and use a WYSIWYG editor. Finally, students will learn how to launch a website and describe the administration of web servers.

### **Transportation, Distribution, and Logistics**

#### **Principles of Transportation, Distribution, and Logistics A/B**

Principles of Transportation, Distribution, and Logistics will introduce your students to an industry that delivers what people want, when and how they want it. The TDL industry is essential to creating global economic growth through increasingly more efficient delivery of goods and services. This course will help to develop both the quantitative and qualitative skills and knowledge required for students to prepare themselves for a successful TDL career. The course also addresses the relevant logistical and geopolitical issues that impact global trade.

### **Government and Public Administration**

#### **Principles of Government and Public Administration A/B**

Principles of Government and Public Administration is designed to enable students at the high school level to explore career opportunities in the field of government and public administration and the career-related skills they need to possess as professionals in this field. Students will learn about the history and development of the US Constitution, the functions of government and public administration in the United States and working conditions necessary for safety in the field of government and public administration. This course covers topics such as: the influence of geography and technology, and networking and communication as they relate to government and public administration. The course is based on Career and Technical Education (CTE) standards designed to help students prepare for entry into a wide range of careers in government and public administration industry.

### **Arts, A/V, Technology, and Communications**

#### **Audio/Video Production 1 A/B**

Audio/Video Production 1 is designed to enable students to learn the basics of audio/video production. The course will help students develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities, video production (including using advanced techniques), and careers and ethics in audio/video production. The course is based on Career and Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the audio/video production industry.

#### **Audio/Video Production 2 A/B**

Audio/Video Production 2 is designed to enable students to develop the knowledge and skills related to audio/video techniques that they can use in their careers. This course covers the elements of audio/video production, preproduction activities, production activities, postproduction activities, media production techniques, media formats and distribution, and media ethics and critique. The course is based on Career





Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the audio/video production industry.

### **Audio/Video Production 3 A/B**

Audio/Video Production 3 is designed to enable students to understand basic concepts in audio/video manufacturing. Students will learn about preproduction techniques, advanced production techniques, advanced post-production techniques, mastering production techniques, special effects and animation, and audio/video careers and production laws. The course is based on Career Technical Education (CTE) standards designed to help students prepare for entry into a wide range of careers in audio/video production.

### **Digital and Interactive Media A/B**

Digital and Interactive Media is a comprehensive introduction to careers in the rapidly expanding world of digital art. The course covers creative and practical aspects of digital art as well as careers, training, and emerging technologies in digital media. Students will learn concepts involved in digital media, such as graphic design, principles of design, digital printing, digital communication systems, and digital publishing. This course explores various career options and students will create a digital portfolio.

### **Graphic Design and Illustration A/B**

The Graphic Design and Illustration course allows students to develop an understanding of the industry with a focus on topics such as history of graphic design, types of digital images, graphic design tools, storing and manipulating images, design elements and principles, copyright laws, and printing images. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in careers in the graphic design industry.

### **Introduction to Fashion Design**

Introduction to Fashion Design focuses on the practical aspects of career preparation in the fashion design industry. The lessons in the course provide students with both breadth and depth, as they explore the full gamut of relevant topics in fashion design. This course provides students insight on the history of fashion and its place in the modern world and helps students understand terms and concepts related to fashion. Students explore fashion forecasting, predicting consumer demand, pricing, and other activities involved in the fashion process from the inspiration for a garment to creating sketches until the final product takes shape.

### **Principles of Arts, Audio/Video Technology, and Communications A/B**

Principles of Arts, A/V Technology, and Communications appeals to students' familiarity with a variety of sensory inputs and stimuli. With an emphasis on visual arts, the lessons in the course introduce learners to careers in design, photography, performing arts, fashion, and journalism, among others. This course covers inherently engaging topics that will stimulate your students as they consider careers in which the arts, technology, and communications intersect.

### **Professional Photography A/B**

Few recent technical innovations have changed an industry as fundamentally as digital photography has changed everything about the way we capture our lives in the way we take, edit, store, and share pictures. Professional Photography provides a practical, hands-on guide to help students understand the skills required to achieve success in photography careers. This course will cover various topics, such as types of photography, using digital cameras, photographic lighting and composition, manipulating images, printing photos, darkroom development, evaluating photographs, and print production. By the end of the courses, students will learn how to create a photography portfolio.

### **Theater, Cinema, and Film Production**

Theater, Cinema, and Film Production is a one-semester course that explores what goes into the making of a theater and film production. The course's lessons focus on the pre-production, production, and post-production



stages of theater and film productions. Students will be introduced to theater and film, and their different genres and subgenres. They will also learn about roles and responsibilities of the cast and crew, including the director, actors, screenplay writers, set designers, wardrobe stylists and costume designers, and makeup artists. The course also covers technical aspects, such as lighting and sound. Students will also learn about the influence of the audience on theater, cinema, and film production. The course combines a variety of content types, including lessons, activities, and discussions to keep students engaged as they discover the world of theater, cinema, and film production.

## Education and Training

### **Principles of Education and Training A/B**

Principles of Education and Training is designed to enable students at the high school level to learn the basics of education and training. Students will learn about various trends and factors that influence the education industry. This course introduces various career opportunities in the field of education. The course topics include personal and professional skills needed in various education careers, child growth and development, child health, delivering instruction, and technology in education. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the education industry.

## Architecture and Construction

### **Drafting and Design A/B**

Drafting and Design gives students a comprehensive look at the fundamental concepts of drafting and design. In this course, students will explore types of drafting tools, drafting conventions, sketching and drawing techniques, types of views and projections, computer-aided design and drafting (CADD) operations, and the development of a prototype. This course features skill-embedded content that connects student learning to real-life experiences. Additionally, students will develop key professional and personal skills that are helpful in having a successful career in the field of drafting and design.

### **Principles of Architecture and Construction A/B**

In the Principles of Architecture and Construction course, students will learn about various career options in the field. The course covers foundational concepts of architecture and construction such as architectural drawings, structure and loads, materials, and equipment used in architecture and construction. Students then learn the key concepts of urban design and its relationship with city government and about construction documents and standards. The course also covers workplace skills and ethics and basic computing skills.

## Marketing

### **Entrepreneurship A/B**

Entrepreneurship is a course that is based on Career Technical Education (CTE) standards designed to help students understand the roles and attributes of an entrepreneur, marketing and its components, selling process, and operations management. In this course, students will explore entrepreneurship and the economy, marketing fundamentals, managing customers, production and operations management, money, and business law and taxation.

### **Introduction to Social Media**

Introduction to Social Media is a one-semester course intended to familiarize students with the evolution and rapid growth of social media. The course explores different types of social media platforms, their features, and their benefits and risks. Students will learn about wikis and crowdsourcing and how social media is used for



marketing. The course also covers online security and privacy risks, safety guidelines, and what it means to be a good digital citizen.

### **Marketing, Advertising, and Sales**

Issues in marketing, advertising, and sales promotion are evolving rapidly in an increasingly digital environment. The Marketing, Advertising, and Sales course effectively helps your students prepare for a career in that environment through a comprehensive look at essential marketing principles, interactive tools and channels, and the growing impact of data in marketing and advertising. This course provides an overview of all the fundamental topics necessary to effectively put your students on a career path that unleashes their creativity and develops and leverages their critical thinking skills.

### **Law, Public Safety, Corrections, and Security**

#### **Introduction to Criminology**

Introduction to Criminology is a one-semester course that is designed to enable students to understand basic concepts related to criminology. The target audience for this course is high school students. This course allows students to analyze and compare various theories related to criminology. Additionally, students will explore topics such as punishing offenders, deterring criminal behavior, and eliminating injustice with peace.

#### **Introduction to Forensic Science**

Introduction to Forensic Science is designed to introduce students to the importance and limitations of forensic science and explore different career options in this field. They also learn to process a crime scene, collect and preserve evidence, and analyze biological evidence such as fingerprints, blood spatter, and DNA samples. Moreover, they learn to determine the time and cause of death in homicides and analyze ballistic evidence and human remains in a crime scene. Finally, they learn about forensic investigative methods related to arson, computer crimes, financial crimes, frauds, and forgeries.

#### **Principles of Law, Public Safety, Corrections, and Security A/B**

The Principles of Law, Public Safety, Corrections, and Security course is intended as a practical, hands-on guide to help students understand the functioning of law enforcement agencies, courts, the correctional system, and security and emergency agencies. This course covers the history and development of criminal law in the United States, court procedures, the role of law enforcement agencies and private security in public safety, and the role of fire fighters and emergency responders. It also covers the ethical and legal responsibilities and working conditions in law enforcement and security. Through this course, students will understand the personal, professional, and technological skills required by professionals working in the fields of law, public safety, corrections, and security.

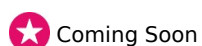
### **Manufacturing**

#### **Principles of Manufacturing A/B**

Principles of Manufacturing is a course designed to help your students understand various manufacturing processes, concepts, and systems, and to introduce them to the various career paths available to them in manufacturing. This course emphasizes STEM principles while also covering practical aspects of manufacturing such as marketing and regulatory issues, as well as issues related to launching and managing a manufacturing business.

### **Other**

#### **Keyboarding**



Coming Soon



College Board® Advanced Placement® Approval



National Collegiate Athletic Association (NCAA)



This one-semester course is intended as a practical, hands-on guide to help you learn electronic communication skills required to achieve success in various careers. This course has 14 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities. Additionally, there is one Course Activity that you need to work on throughout the duration of the course. This activity is a long-term project over the length of the course.

## College & Career Readiness

### **ACT® English**

The ACT assesses high school students' general educational development and their ability to complete college-level work. Our course prepares students to take the test by learning the content ideas they will be tested on. ACT® is a registered trademark of ACT, Inc.

### **ACT® Mathematics**

The ACT assesses high school students' general educational development and their ability to complete college-level work. Our course prepares students to take the test by learning the content ideas they will be tested on. ACT® is a registered trademark of ACT, Inc.

### **ACT® Reading**

The ACT assesses high school students' general educational development and their ability to complete college-level work. Our course prepares students to take the test by learning the content ideas they will be tested on. ACT® is a registered trademark of ACT, Inc.

### **ACT® Science Reasoning**

The ACT assesses high school students' general educational development and their ability to complete college-level work. Our course prepares students to take the test by learning the content ideas they will be tested on. ACT® is a registered trademark of ACT, Inc.

### **ACT® WORKKEYS**

WorkKeys is a job skills assessment system that helps employers select, hire, train, and retain a high-performance workforce. WorkKeys scores help compare a learner's skills to the skills real jobs require. ACT WorkKeys assessments are divided into the following subdivisions:

ACT WorkKeys - Applied Mathematics - Leveled

ACT WorkKeys - Graphic Literacy

ACT WorkKeys - Workplace Documents

ACT and WORKKEYS are registered trademarks of ACT, Inc.

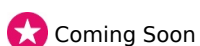
### **AP® Computer Science A**

AP® Computer Science is designed to introduce students to the basic concepts of computer programming. Students learn how to compile and run a Java program. They learn to use arithmetic, relational, and logical operators. They learn to use different decision-making and loop statements. They learn to create classes, methods, String objects, and an ArrayList object. They learn to perform sequential search, binary search, selection sort, and insertion sort on an array. They learn to implement object-oriented programming design. They learn to implement inheritance, polymorphism, and abstraction. Further, they describe privacy and legality in the context of computing.

This course has been authorized by the College Board® to use the AP® designation.

\*Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

### **ASVAB Mathematics**



Coming Soon



College Board® Advanced Placement® Approval



National Collegiate Athletic Association (NCAA)





The ASVAB is a test developed and maintained by the Department of Defense. ASVAB scores count toward the Armed Forces Qualifying Test (AFQT) score.

#### **ASVAB Technology & General Science, Part 1**

The ASVAB is a test developed and maintained by the Department of Defense. ASVAB scores count toward the Armed Forces Qualifying Test (AFQT) score.

#### **ASVAB Technology & General Science, Part 2**

The ASVAB is a test developed and maintained by the Department of Defense. ASVAB scores count toward the Armed Forces Qualifying Test (AFQT) score.

#### **ASVAB Word Knowledge & Paragraph Comprehension**

The ASVAB is a test developed and maintained by the Department of Defense. ASVAB scores count toward the Armed Forces Qualifying Test (AFQT) score.

#### **Accuplacer® Mathematics**

ACCUPLACER tests provide information about academic skills and, in conjunction with a student's academic background, are used by advisors to provide guidance on course selection. ACCUPLACER® is a registered trademark of the College Board, which was not involved in the production of, and does not endorse, this product.

#### **Accuplacer® Reading**

ACCUPLACER tests provide information about academic skills and, in conjunction with a student's academic background, are used by advisors to provide guidance on course selection. ACCUPLACER® is a registered trademark of the College Board, which was not involved in the production of, and does not endorse, this product.

#### **Accuplacer® Writing**

ACCUPLACER tests provide information about academic skills and, in conjunction with a student's academic background, are used by advisors to provide guidance on course selection. ACCUPLACER® is a registered trademark of the College Board, which was not involved in the production of, and does not endorse, this product.

#### **HiSET® Preparation - Language Arts - Reading Part 1**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

#### **HiSET® Preparation - Language Arts - Reading Part 2**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

#### **HiSET® Preparation - Language Arts - Writing Part 1**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

#### **HiSET® Preparation - Language Arts - Writing Part 2**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.



### **HiSET® Preparation - Mathematics Part 1**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

### **HiSET® Preparation - Mathematics Part 2**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

### **HiSET® Preparation - Science Part 1**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

### **HiSET® Preparation - Science Part 2**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

### **HiSET® Preparation - Social Studies Part 1**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

### **HiSET® Preparation - Social Studies Part 2**

The HiSET exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. HiSET® is a registered trademark of the Educational Testing Service (ETS). This product is not endorsed or approved by ETS.

### **Preparation for the GED® Test - Math**

The GED exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. GED® is a registered trademark of the American Council on Education (ACE) and administered exclusively by GED Testing Service, LLC under license.

### **Preparation for the GED® Test - Reading Language Arts (RLA)**

The GED exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. GED® is a registered trademark of the American Council on Education (ACE) and administered exclusively by GED Testing Service, LLC under license.

### **Preparation for the GED® Test - Science**

The GED exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. GED® is a registered trademark of the American Council on Education (ACE) and administered exclusively by GED Testing Service, LLC under license.

### **Preparation for the GED® Test - Social Studies**

The GED® exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications. GED® is a registered trademark of the American Council on Education (ACE) and administered exclusively by GED Testing Service, LLC under license.

### **SAT® Mathematics**



The SAT assesses academic readiness for college. It keeps pace with what colleges are looking for today, measuring the skills required for success in the 21st century. Our course prepares students to take the test by learning the content ideas they will be tested on. SAT® is a registered trademark of the College Board, which was not involved in the production of, and does not endorse, this product.

**SAT® Reading**

The SAT assesses academic readiness for college. It keeps pace with what colleges are looking for today, measuring the skills required for success in the 21st century. Our course prepares students to take the test by learning the content ideas they will be tested on. SAT® is a registered trademark of the College Board, which was not involved in the production of, and does not endorse, this product.

**SAT® Writing and Language**

The SAT assesses academic readiness for college. It keeps pace with what colleges are looking for today, measuring the skills required for success in the 21st century. Our course prepares students to take the test by learning the content ideas they will be tested on. SAT® is a registered trademark of the College Board, which was not involved in the production of, and does not endorse, this product.

**TABE® Language Level A**

This course is aligned to the TABE exam objectives. The TABE - Language Level A course covers three units of content: Unit 1 - Language Structure and Mechanics, Unit 2 - Writing Strategies, and Unit 3 - Writing for the Workplace.

**TABE® Language Level D**

This course is aligned to the TABE exam objectives. The TABE - Language Level D course covers three units of content: Unit 1 - Language Structure and Mechanics, Unit 2 - Writing Strategies, and Unit 3 - Writing for the Workplace.

**TABE® Language Level E**

This course is aligned to the TABE exam objectives. The TABE - Language Level E course covers two units of content: Unit 1 - Language Structure and Mechanics and Unit 2 - Writing Strategies.

**TABE® Language Level L**

This course is aligned to the TABE exam objectives. The TABE - Language Level L course covers two units of content: Unit 1 - Language Structure and Mechanics and Unit 2 - Writing Strategies.

**TABE® Language Level M**

This course is aligned to the TABE exam objectives. The TABE - Language Level M course covers three units of content: Unit 1 - Language Structure and Mechanics, Unit 2 - Writing Strategies, and Unit 3 - Writing for the Workplace.

**TABE® Mathematics Level A, Part 1**

This course is aligned to the TABE exam objectives. The TABE - Math Level A, Part 1 course covers three units of content: Unit 1 - Intermediate Computation with Decimals, Fractions, and Percents, Unit 2 - Geometry and Measurement, and Unit 3 - Algebraic Concepts.

**TABE® Mathematics Level A, Part 2**

This course is aligned to the TABE exam objectives. The TABE - Math Level A, Part 2 course covers two units of content: Unit 1 - Advanced Algebraic Concepts and Unit 2 - Data Analysis, Probability, and Trigonometry.

**TABE® Mathematics Level D**

This course is aligned to the TABE exam objectives. The TABE - Math Level D course covers four units of content: Unit 1 - Number Concepts, Decimals, Fractions, and Percents, Unit 2 - Geometry and Measurement, Unit 3 -



Data Analysis, Probability, and Trigonometry, and Unit 4 - Algebraic Concepts.

**TABE® Mathematics Level E**

This course is aligned to the TABE exam objectives. The TABE - Math Level E course covers four units of content: Unit 1 - Number Concepts and Computation, Unit 2 - Computation with Decimals, Fractions, and Percents, Unit 3 - Geometry and Measurement, and Unit 4 - Data Analysis and Problem Solving.

**TABE® Mathematics Level L**

This course is aligned to the TABE exam objectives. The TABE - Math Level L course covers two units of content: Unit 1 - Number Concepts and Unit 2 - Computation and Measurement.

**TABE® Mathematics Level M**

This course is aligned to the TABE exam objectives. The TABE - Math Level M course covers five units of content: Unit 1 - Number Concepts Unit 2 - Computation, Unit 3 - Intermediate Computation with Decimals, Fractions, and Percents, Unit 4 - Geometry and Measurement, and Unit 5 - Data Analysis and Problem Solving.

**TABE® Reading Level A**

This course is aligned to the TABE exam objectives. The TABE - Reading Level A course covers two units of content: Unit 1 - Reading Skills and Strategies and Unit 2 - Reading for Information.

**TABE® Reading Level D**

This course is aligned to the TABE exam objectives. The TABE - Reading Level D course covers four units of content: Unit 1 - Reading Skills and Strategies, Unit 2 - Vocabulary and Reading Comprehension, Part 1, Unit 3 - Vocabulary and Reading Comprehension, Part 2, and Unit 4 - Reading for Information.

**TABE® Reading Level E**

This course is aligned to the TABE exam objectives. The TABE - Reading Level E course covers three units of content: Unit 1 - Reading Skills and Strategies, Unit 2 - Vocabulary and Reading Comprehension, Part 1, and Unit 3 - Vocabulary and Reading Comprehension, Part 2.

**TABE® Reading Level L**

This course is aligned to the TABE exam objectives. The TABE - Math Level L course covers two units of content: Unit 1 - Number Concepts and Unit 2 - Computation and Measurement.

**TABE® Reading Level M**

This course is aligned to the TABE exam objectives. The TABE - Reading Level M course covers four units of content: Unit 1 - Reading Skills and Strategies, Unit 2 - Vocabulary and Reading Comprehension, Part 1, Unit 3 - Vocabulary and Reading Comprehension, Part 2, and Unit 4 - Reading for Information.

**TASC Preparation - Language-Arts Reading Part 1**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Language-Arts Reading Part 2**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Language-Arts Writing Part 1**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Language-Arts Writing Part 2**





The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Mathematics Part 1**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Mathematics Part 2**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Science Part 1**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Science Part 2**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Social Studies Part 1**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TASC Preparation - Social Studies Part 2**

The TASC™ exam measures the skills and knowledge similar to a high school course of study and allows learners to receive their high school equivalency certifications.

**TEAS - Test of Essential Academic Skills: English**

This course is aligned to the TEAS exam objectives. The TEAS English course covers four units of content: Unit 1 - Punctuation, Capitalization and Grammar, Unit 2 - Sentence Structure, Unit 3 - Contextual Words, and Unit 4 - Spelling.

**TEAS - Test of Essential Academic Skills: Math**

This course is aligned to the TEAS exam objectives. The TEAS Math course covers eight units of content: Unit 1 - Whole Numbers, Unit 2 - Metric Conversion, Unit 3 - Fractions and Decimals, Unit 4 - Algebraic Equations, Unit 5 - Percentages, Unit 6 - Ratio and Proportion, Unit 7 - Basic Geometry, and Unit 8 - Diagrams and Graphs.

**TEAS - Test of Essential Academic Skills: Reading**

This course is aligned to the TEAS exam objectives. The TEAS Reading course covers three units of content: Unit 1 - Paragraph Comprehension, Unit 2 - Passage Comprehension, and Unit 3 - Inferences/Conclusions.

**TEAS - Test of Essential Academic Skills: Science**

This course is aligned to the TEAS exam objectives. The TEAS Science course covers seven units of content: Unit 1 - General Science and Scientific Reasoning, Unit 2 - Biology, Unit 3 - Anatomy and Physiology, Unit 4 - Chemistry, Unit 5 - Physics - Part I, Unit 6 - Physics - Part II, and Unit 7 - Earth and Space Science.